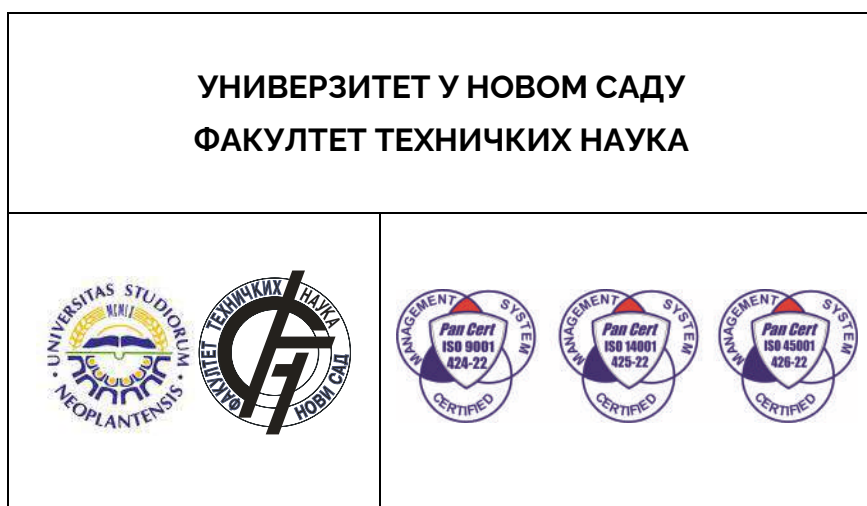


# ГОДИШЊИ ИЗВЕШТАЈ О НАУЧНОИСТРАЖИВАЧКОЈ ДЕЛАТНОСТИ 2023



**Годишњи извештај о научноистраживачкој делатности 2023  
је резултат рада на пројекту:**

**„Унапређење наставних процеса, научних и уметничких  
истраживања уз изазове праћене новим моделима  
финансирања и рангирања научноистраживачких  
организација“**

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Годишњи извештај о научноистраживачкој делатности Факултета техничких наука у Новом Саду за 2023. годину сачињен је на српском језику и ћириличким писмом који су у службеној употреби у Републици Србији. Делови Извештаја садржани у поглављима 2, 3 и 4 (имена и презимена аутора и називи објављених радова, научна продукција по департманима Факултета као и репрезентативне референце истраживача) написани су на енглеском језику, користе енглеску абецеду (*The English Alphabet*) и латинично писмо јер су преузети из програмске апликације Картон научног радника.

**Тираж:** 60

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*Захваљујемо се:*

*ауторима радова, учесницима на пројектима као и  
учесницима на пројекту „Унапређење наставних процеса, научних и  
уметничких истраживања уз изазове праћене новим моделима  
финансирања и рангирања научноистраживачких организација“*

## **ПРЕДГОВОР**

*Годишњи извештај о научноистраживачкој делатности Факултета техничких наука, представља преглед научне продукције Факултета током 2023. године. Ово је осамнаесто узастопно издање које пружа свеобухватан увид у библиографију научних радника ангажованих на Факултету, чиме се на јединствен начин документује њихов допринос развоју науке, технологије, техничких достигнућа и иновација.*

*У оквиру Годишњака се редовно, сваке године ажурирају подаци о резултатима научних истраживања запослених, чиме се ствара драгоцен база информација о научном утицају Факултета техничких наука. Као и претходних година, основни извор података за израду овог извештаја била је програмска апликација „Картон научног радника“, развијена и унапређена од стране запослених на Факултету у сарадњи са Покрајинским секретаријатом за високо образовање и научноистраживачку делатност.*

*Поред обједињеног приказа научноистраживачке продукције током 2023. године Годишњак садржи и листе репрезентативних референци истраживача, које су објављене у часописима са импакт фактором од 2013. до краја 2023. године.*

## 1.0 УВОД

Наука, иновације и технолошки напредак кључни су покретачи економског просперитета. Њихов утицај огледа се у побољшању квалитета живота, а друштва која су способна да иновације трансформишу у конкретне, корисне производе, услуге и производне процесе, неоспорно остварују напредак.

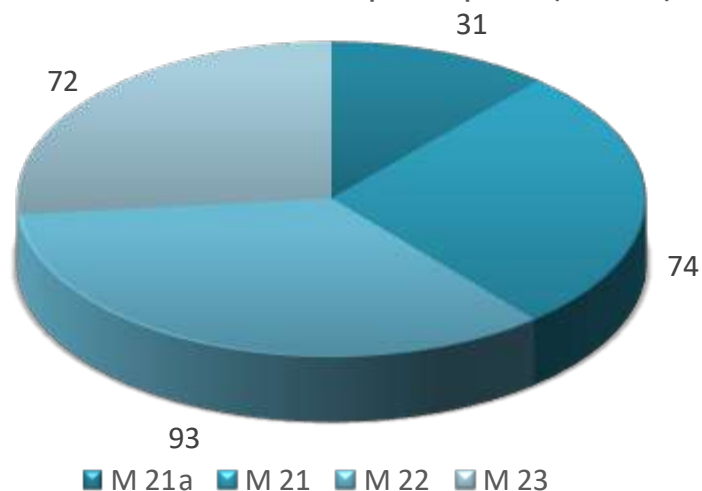
Управо због тога Факултет техничких наука снажно је посвећен унапређењу науке, иновација и технолошког развоја, те подстицању предузетништва.

Истраживачке активности, које иду руку под руку са образовним процесом и применом научних резултата у привреди, представљају један од три кључна стуба нашег Факултета. Савремено опремљене лабораторије и остала неопходна инфраструктура стварају повољне услове за ефикасна и продуктивна истраживања, као и за реализацију иновативних идеја.

Факултет техничких наука континуирано предузима читав низ мера како би поспешео научноистраживачку делатност и додатно подстаккао своје наставнике и сараднике да буду продуктивнији у овој области. Неке од ових подстицајних мера су:

- Награда за остварене резултате у научноистраживачком раду која се сваке године додељује поводом Дана ФТН-а а коју добија наставник или сарадник са најбољом научном продукцијом према Правилнику о додели награда запосленима на Факултету.
- Подршка у проналажењу и реализацији међународних научних пројеката коју запосленима пружа Канцеларија за међународну сарадњу.

Преглед годишњег броја радова објављених у часописима са импакт фактором (ISI list)

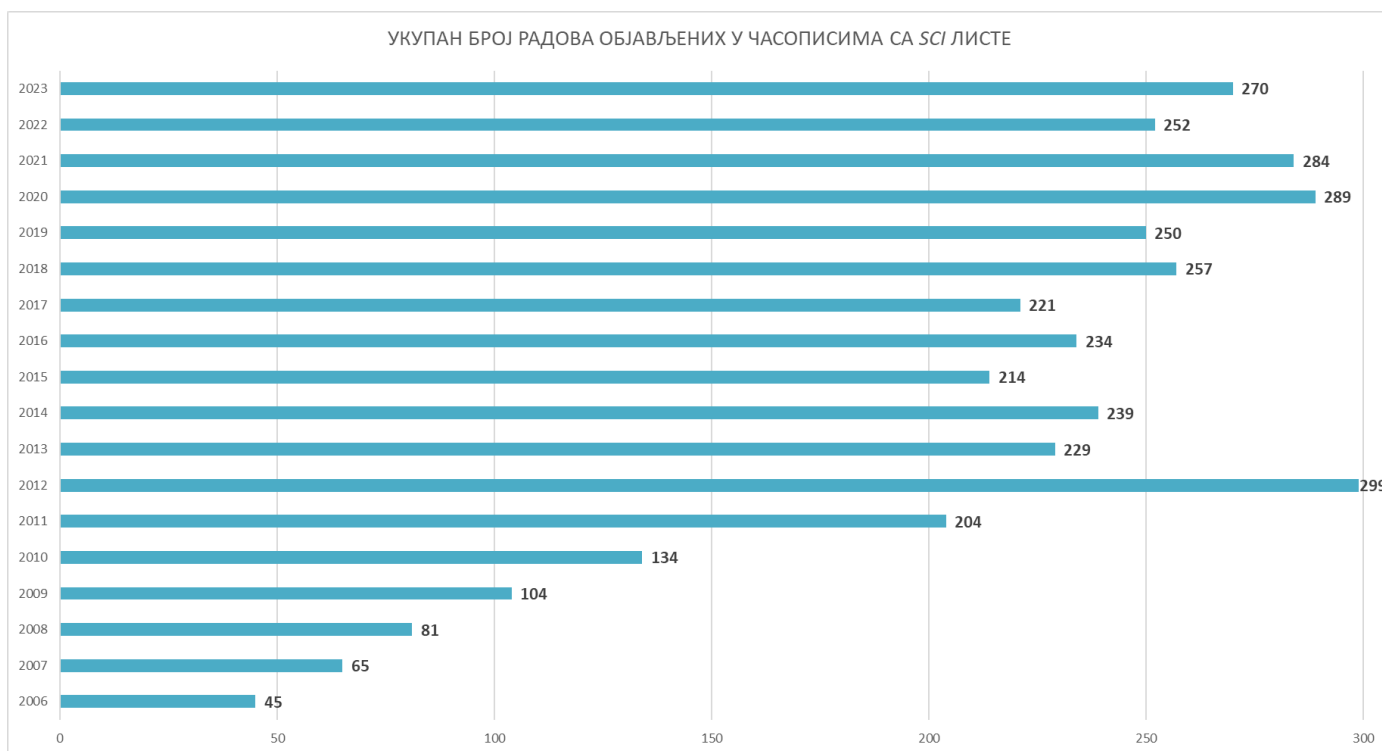


Слика 1. Преглед годишњег броја радова објављених у часописима са импакт фактором (ISI list)

На слици 1. приказан је преглед броја објављених радова у часописима са импакт фактором у 2023. години (ISI list). Овај преглед направљен је на основу података које су истраживачи сами уносили у свој „Картон научног радника“. Како би се осигурала тачност и ажурност података уведена је верификација података унетих у КНР. На тај начин елиминисани су погрешно или непотпуно унети подаци а, у неким случајевима, коригована је и класификација радова.

Укупан број радова објављених у међународним научним часописима са SCI листе током 2023. године износио је 270 (слика 2.). Највећи број радова истраживачи са ФТН-а објавили су у истакнутим међународним часописима категорије М22 (93, 34.4%).

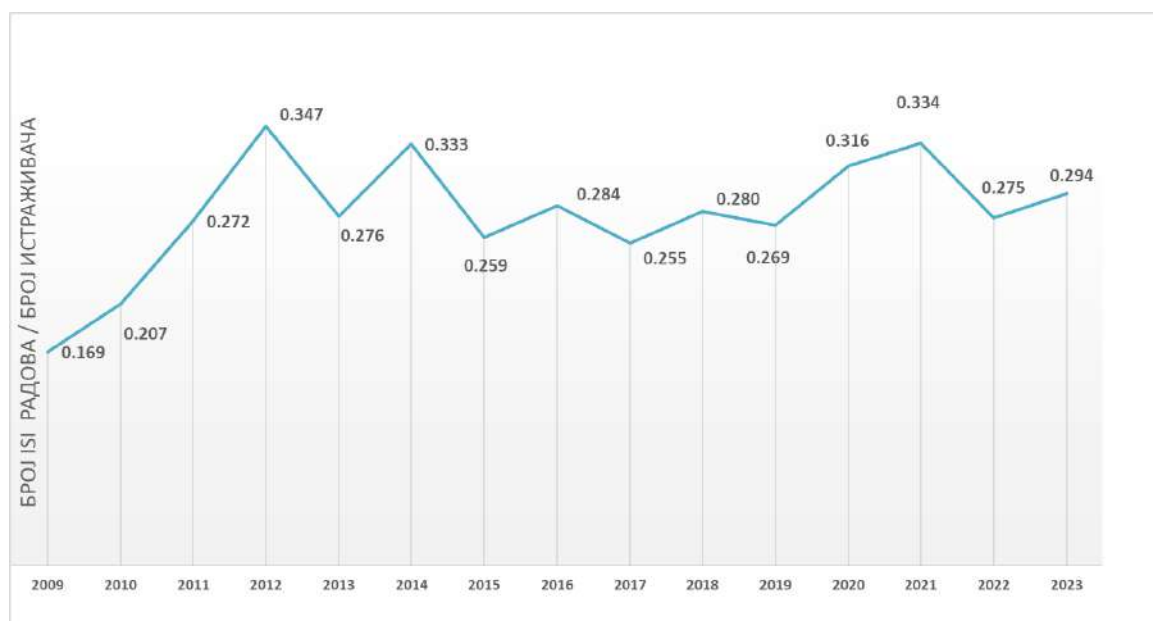
Укупан број радова који, према важећој класификацији научних радова за техничко-технолошке и биотехничке области, носе радови објављени током 2023. године је 1583. Анализом представљених резултата може се закључити да је и даље, потребно интензивно деловати у правцу повећања броја радова које особље Факултета публикује у међународним научним часописима.



Слика 2. Преглед броја радова објављених у часописима са импакт фактором (ISI list) од 2006 до 2023. године

Уколико се посматра однос укупног броја објављених радова по једном истраживачу у 2023. години долази се до вредности од 0,294. (слика 3) Интересантно је, упоредити и однос броја радова објављених у часописима са SCI листе и броја истраживача са научним звањем доктора наука запослених на

Факултету техничких наука јер се на основу тога врши представљање Универзитета. За 2023. годину овај однос је 0,472.



Слика 2. Преглед броја радова ISI радова у односу на укупан број наставника и сарадника

Факултет техничких наука наставља континуирано да ради у правцу подстицања научноистраживачке делатности. Једна од мера је и интернационализација и повећање видљивости резултата истраживања путем учешћа на великом броју међународних конкурса. Активно бављење науком од стране младих истраживача подстиче се на више начина:

- Сваке године се на реализацији постојећих пројеката које финансира Министарство науке, технолошког развоја и иновација ангажује одређени број дипломаца и студената мастер и докторских студија. Поред стипендија које им обезбеђује Министарство, Факултет техничких наука им обезбеђује простор, рачунаре и све друге могућности за рад.
- Награда за најбољег научника додељује се истраживачу млађем од 40 година.

Поред тога, уведена је још једна мера којом се подстиче континуирано ангажовање истраживача у области науке. Наиме, почевши од 2014. године, за подстицајни додатак на зараду због објављених радова рачунају се само радови објављени у последњих пет година. Ова мера доприноси својеврсној ажурности и бризи да се резултати научног рада објављују у континуитету.

**Поглавље 2** овог извештаја доноси приказ радова објављених у часописима међународног значаја категорија M21a, M21, M22 и M23 тј. часописима са импакт фактором (*ISI list*) збирно, за цео Факултет док **Поглавље 3** Годишњег извештаја представља укупну научну продукцију по департманима и катедрама ФТН-а. У **Поглављу 4** дате су репрезентативне референце истраживача такође расподељене по департманима на којима су запослени за период 2013 - 2023. година.



**2.0 РАДОВИ ОБЈАВЉЕНИ У  
ЧАСОПИСИМА МЕЂУНАРОДНОГ ЗНАЧАЈА  
ранга M21a, M21, M22, M23, тј. часописима  
са ISI листе (са импакт фактором)  
у току 2023. године**

Редни број	Библиографска одредница научног рада	Категорија (М)
1.	<b>Agarski B., Budak I., Ilić Mićunović M., Vukelić Đ.:</b> Life cycle assessment of injection moulding tools and multicomponent plastic cap production, Article Number: 137450, Journal of Cleaner Production, 2023, Vol. 413, ISSN 0959-6526	M21a
2.	<b>Čomić L.,</b> Largeteau-Skapin G., Zrou R., Biswas R., Andres E.: Discrete analytical objects in the body-centered cubic grid, Pattern Recognition, 2023, Vol. 142, ISSN 0031-3203	M21a
3.	<b>Dakić D., Stefanović D., Vučković T., Žizakov M., Stevanov B.:</b> Event Log Data Quality Issues and Solutions, Mathematics, 2023, Vol. 11, No. 13, pp. 1-39, ISSN 2227-7390	M21a
4.	<b>Doroslovački K., Cvetković D.:</b> On Matrices with Only One Non-SDD Row, Mathematics, 2023, Vol. 11, No. (10) 2382, pp. 1-17, ISSN 2227-7390	M21a
5.	Došenović (Žikić) T., Rakić D., Radenović S., <b>Carić B.:</b> Ćirić type nonunique fixed point theorems in the frame of fuzzy metric spaces, Aims Mathematics, 2023, Vol. 8, No. 1, pp. 2154-2167, ISSN 2473-6988	M21a
6.	<b>Dubljević S., Tepavčević B., Markoski B., Anđelković A.:</b> Computational BIM tool for automated LEED certification process, Energy and Buildings, 2023, Vol. 292, No. 113168, 1 August 2023, pp. 1-12, ISSN 0378-7788	M21a
7.	<b>Đokić J., Doroslovački K.,</b> Bodroža Pantić O.: A Spanning Union of Cycles in Thin Cylinder, Torus and Klein Bottle Grid Graphs, Mathematics, 2023, Vol. 11, No. 4 (846), pp. 1-20, ISSN 2227-7390	M21a
8.	Erceg T., Vukić (Skerlić) N., Šovljanski O., Teofilović V., Porobić S., <b>Baloš S., Kojić S., Terek P., Banjanin B., Rakić S.:</b> Preparation and characterization of biodegradable cellulose acetate-based films with novel plasticizer obtained by polyethylene terephthalate glycolysis intended for active packaging, Cellulose, 2023, ISSN 0969-0239	M21a
9.	Górriz J., Illán I., Marquina A., Arco J., Atzmüller M., Ballarini F., Barakova E., Bologna G., Bonomini M., Castellanos-Domínguez G., Castillo-Barnes D., Cho S., Ricardo Contreras A., Cuadra J., Domínguez E., Domínguez-Mateos F., Duro R., Elizondo D., Fernández-Caballero A., Fernández E., Formoso M., Gallego-Molina, N., Gamazo J., Jiménez J., Rodríguez-Rivero J., Garre del Olmo C., Javier Garrigós F., Gómez-Rodellar A., Vilda P., Grana M., Rodríguez-Tapia B., Hendrikse S., Jimenez-Mesa C., Jodra-Chuan M., Julián V., Kotz G., Kutt K., Leming M., de Lope Asiaín J., del Cisne Macas Ordóñez B., Marrero-Aguar V., Martínez J., Martínez-Murcia F., Martínez-Tomás R., Mekyska J., Nalepa G., Novais P., Orellana D., Ortiz A., Palacios-Alonso D., Palma J., Pereira A., Davidson P., Pinninghoff M., Ponticorvo M., Psarrou A., Ramírez J., Rincón M., Rodellar-Biarge V., Rodríguez-Rodríguez I., Roelofsma P., Santos J., Salas-Gonzalez D., Salcedo Lagos P., Segovia F., Shoeibi A., Silva M., <b>Simić D.,</b> Suckling J., Treur J., Tsanas A., Varela R., Wang S., Wang W., Zhang Y., Zhu H., Zhu Z., Ferrández-Vicente J.: Computational approaches to Explainable Artificial Intelligence: Advances in theory, applications and trends, Information Fusion, 2023, Vol. 100, No. 101945, ISSN 1566-2535	M21a

10.	<b>Gradojević N., Kukolj D.,</b> Adcock R., <b>Đaković V.:</b> Forecasting Bitcoin with technical analysis: A not-so-random forest?, International Journal of Forecasting, 2023, Vol. 39, No. 1, pp. 1-17, ISSN 0169-2070	<b>M21a</b>
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242.	Satarić M., <b>Nemeš T.,</b> Zdravković S.: Calcium messages in flagella are faster than messenger particles, Biosystems, 2023, Vol. 232, ISSN 0303-2647	<b>M23</b>
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244.	<b>Savić G., Segedinac M.,</b> Konjović Z., <b>Vidaković M.,</b> Dutina R.: Towards a Domain-Neutral Platform for Sustainable Digital Twin Development. Sustainability, Sustainability, 2023, Vol. 15, No. 13612, ISSN 2071-1050	<b>M23</b>
245.	<b>Simeunović M.,</b> Kojić R., <b>Ralević N., Pitka P., Kovačević (Savković) T.:</b> Influence of Traffic Flow and Meteorological Conditions on Air Pollution – A Case Study, Promet - Traffic & Transportation, 2023, Vol. 35, No. 6, pp. 932-946, ISSN 1848-4069	<b>M23</b>
246.	<b>Simić M., Stojanović G.:</b> Parameter Estimation of 2R-1C Circuit using Embedded Hardware and Measured Impedance Modulus, Journal of Circuits Systems and Computers, 2023, Vol. 32, No. 15, ISSN 0218-1266	<b>M23</b>
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251.	<b>Stefanović M., Pržulj Đ., Stefanović D., Ristić S., Čapko D.:</b> The Proposal of New Ethereum Request for Comments for Supporting Fractional Ownership of Non-Fungible Tokens, Computer Science and Information Systems, 2023, Vol. 20, No. 3, pp. 1133-1155, ISSN 1820-0214	M23
252.	<b>Stojaković V., Bajić Papuga B., Tepavčević B., Jovanović M.:</b> Symmetry Group Effect on Perforated Image Perception, Nexus Network Journal, 2023, ISSN 1590-5896	M23
253.	<b>Stojaković V., Tepavčević B.:</b> Geometry to Fabrication in Architecture, Nexus Network Journal, 2023, ISSN 1590-5896	M23
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256.	Škundrić J., Živković P., Tica M., <b>Tomić M.</b> , Christian B.: Investigation of air-cooled condenser's operating parameters in modern thermal power plant, Thermal Science, 2023, pp. 203-203, ISSN 0354-9836	M23
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260.	<b>Šunjević M., Reba D., Rajs V., Vujić (Francuski) B., Ninkov M., Vojinović-Miloradov M.:</b> Assessment of detected in situ and modeled PM <sub>10/2.5</sub> concentration levels during the urban transformation process in Novi Sad, Serbia, Thermal Science, 2023, Vol. 27, No. 3B, pp. 2275-2286, ISSN 0354-9836	M23
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<b>264.</b>	<b>Vasiljević I., Santoši Ž., Obradović M.,</b> Popkonstantinović B., <b>Budak I., Obradović R.:</b> Copyright Protection of 3D Digitized Sculptures by Use of Haptic Device for Adding Local-Imperceptible Bumps, Tehnički vjesnik - Technical Gazette, 2023, Vol. 30, No. 6, pp. 2001-2008, ISSN 1330-3651	<b>M23</b>
<b>265.</b>	<b>Vidicki P., Stevanov B., Vrgović P., Medić N.:</b> Framework for Measuring Innovation Performance in Higher Education Institutions, Tehnički vjesnik - Technical Gazette, 2023, Vol. 30, No. 1, pp. 68-79, ISSN 1330-3651	<b>M23</b>
<b>266.</b>	<b>Vučić M., Jovanović M., Raković M.:</b> Fabricating Porous Structures using Robotic Hotwire Cutting, Nexus Network Journal, 2023, ISSN 1590-5896	<b>M23</b>
<b>267.</b>	<b>Vučković D., Jovanović D., Cvetković N., Tasić D., Kasaš-Lažetić K.:</b> An Approximate Model for Determining the Resistance of a Hemispherical Ground Electrode Placed on a Non-homogeneous Truncated Cone, Acta Polytechnica Hungarica, Journal of Applied Sciences, 2023, Vol. 20, No. 6, pp. 119-133, ISSN 1785-8860	<b>M23</b>
<b>268.</b>	<b>Vukadinović M., Ratković Njegovan B.,</b> Njegovan M.: On the Ugliness and Distortedness: The Observers' Perception of "Uncanny Valley" Phenomenon in Photorealistic Computer Animated Faces, Studia Psychologica, 2023, Vol. 65, No. 4, pp. 364-377, ISSN 0039-3320	<b>M23</b>
<b>269.</b>	<b>Zeković S., Grgić S., Maraš I., Atanacković-Jeličić J., Krklješ M.:</b> Application of Augmented Reality in Architectural Education, International Journal of Engineering Education, 2023, Vol. 39, No. 4, pp. 886-896, ISSN 0949-149X	<b>M23</b>
<b>270.</b>	<b>Živković P., Tomić M., Ayed S., Barz C., Sever D.:</b> Experimental and numerical investigation of Rayleigh-Benard convection in rectangular cavity with motor oil, Thermal Science, 2023, Vol. 27, No. 6A, pp. 4525-4537, ISSN 0354-9836	<b>M23</b>

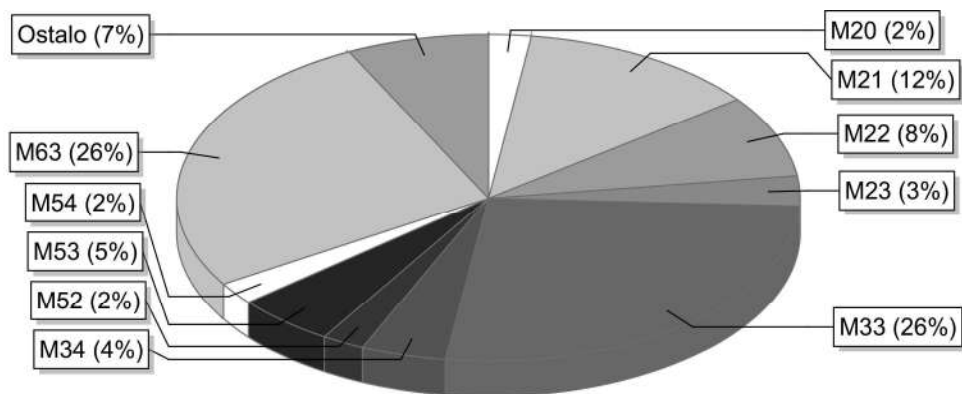
### **3.0. НАУЧНА ПРОДУКЦИЈА**

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za proizvodno mašinstvo

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	17
Rad u istaknutom međunarodnom časopisu	M22	11
Rad u međunarodnom časopisu	M23	4
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Uređivanje međunarodnog naučnog časopisa	M28	2
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	36
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	6
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u časopisu nacionalnog značaja	M52	3
Rad u naučnom časopisu	M53	7
Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)	M54	3
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	36
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
Odbranjena doktorska disertacija	M71	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1



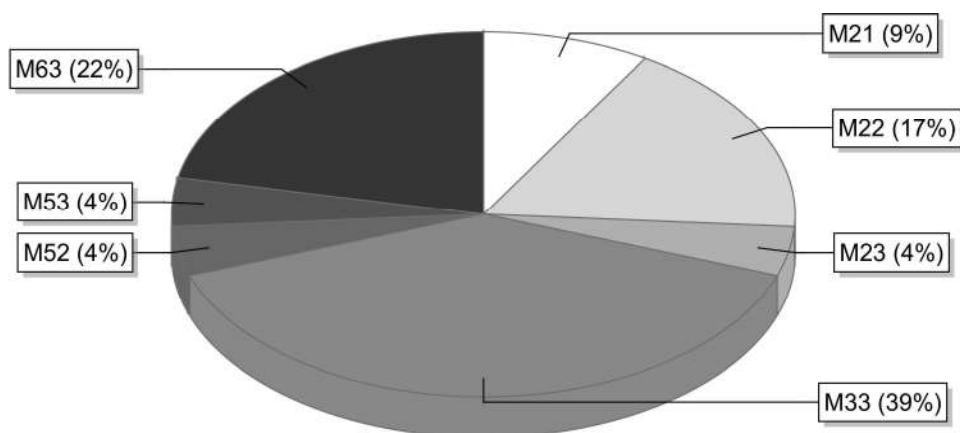


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za procese obrade skidanjem materijala

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	4
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	9
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Jovičić G., Milošević A., Kanović Ž., Šokac M., Šimunović G., Savković B., Vukelić Đ.: Optimization of Dry Turning of Inconel 601 Alloy Based on Surface Roughness, Tool Wear, and Material Removal Rate, Article Number: 1068, *Metals*, 2023, Vol. 13, No. 6, ISSN 2075-4701
2. Rozing G., Duspara M., Dudić B., Savković B.: Research on the Effect of Load and Rotation Speed on Resistance to Combined Wear of Stainless Steels Using ANOVA Analysis, *Materials*, 2023, Vol. 16, No. 12, pp. 1-13, ISSN 1996-1944

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

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4. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A.: Study and Optimization Defect Layer in Powder Mixed Electrical Discharge Machining of Titanium Alloy, *Processes*, 2023, Vol. 11, No. 4, pp. 1-14, ISSN 2227-9717

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A.: Fuzzy Logic Approach to Predict Surface Roughness in Powder Mixed Electric Discharge Machining of Titanium Alloy, *Strojnicki vestnik - Journal of Mechanical Engineering*, 2023, Vol. 69, No. 9-10, pp. 376-384, ISSN 0039-2480

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Aleksić A., Sekulić M., Savković B., Košarac A., Moljević S., Anić J.: Experimental investigation of machining parameters in turning of aluminium alloy 7075-T6, *16. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka, 1-2 June, 2023, pp. 54-59, ISBN 978-99976-11-03-1
2. Babić I., Šikuljak L., Košarac A., Moljević S., Sekulić M., Savković B., Aleksić A.: PREDICTING SURFACE ROUGHNESS IN THE MILLING OF BIOCOMPATIBLE ALLOY TI-6AL-4V, *13. International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, 5-6 October, 2023, pp. 94-104, ISBN 978-86-7672-368-3
3. Pećanac M., Labus Zlatanović D., Kulundžić N., Dramićanin M., Baloš S.: MECHANICAL PROPERTIES OF WELDS OBTAINED BY BOBBIN TOOL FRICTION STIR WELDING PROCESS, *12. International Scientific-Professional Conference "Engineering Technologies in Manufacturing of Welded Constructions and Products" - SBW*, Slavonski Brod, 26-28 April, 2023, pp. 397-407
4. Pećanac M., Labus Zlatanović D., Kulundžić N., Dramićanin M., Janjatović P., Trivković (Ristić) M., Rajnović D., Baloš S., Šidjanin (Sidjanin) L.: Influence of shoulder pinching gap on mechanical properties of the bobbin tool FSW welded joints, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Biblioteka Matice srpske, 26-27 October, 2023, pp. 88-93, ISBN 978-86-6022-610-7
5. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A., Kovač P.: Tool wear rate optimization in PMEDM using graphite powder by Taguchi method for titanium alloy, *11. International Scientific Conference "Development in Machining Technology" - DiM*, Cracow: Cracow University of Technology, 27-28 April, 2023, pp. 1-8, ISBN 978-80-553-4133-0
6. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A.: Optimization surface roughness in powder mixed electrical discharge machining of titanium alloy, *16. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: Faculty of Mechanical Engineering Banja Luka, 1-2 June, 2023, pp. 121-125, ISBN 978-99976-11-03-1
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8. Sekulić M., Savković B., Košarac A., Rodić D., Aleksić A., Moljević S., Anić J.: SUSTAINABLE PROCESSES AND THEIR APPLICATION IN MODERN ADVANCED CUTTING TECHNOLOGIES, 1. *INTERNATIONAL SCIENTIFIC CONFERENCE: „CHALLENGES OF MODERN ECONOMY AND SOCIETY THROUGH THE PRISM OF GREEN ECONOMY AND SUSTAINABLE DEVELOPMENT“ – CESGED*, Novi Sad: UNIVERSITY OF ECONOMIC ACADEMY IN NOVI SAD - FACULTY OF ECONOMICS AND ENGINEERING MANAGEMENT - FIMEK AND FACULTY OF LAW FOR ECONOMY AND JUSTICE IN NOVI SAD, SERBIA;, 27-30 April, 2023, pp. 98-116, ISBN 978-86-81506-23-3
9. Šajnović T., Rodić D., Gostimirović M., Lukić D., Milošević M.: Surface Roughness Optimization in Laser Cutting by using Taguchi Method, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical Faculty "Mihajlo Pupin", 5-6 October, 2023, pp. 195-199, ISBN 978-86-7672-368-3

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1. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A., Kukulj D.: Analys of defect layer in electrical discharge machining of non-conductive ceramic, *Journal of Production Engineering*, 2023, Vol. 26, No. 1, pp. 24-27, ISSN 1821-4932

**Spisak rezultata M53 - Rad u naučnom časopisu**

1. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A.: Analysis of tool wear rate during electrical discharge machining of non-conductive material, *Innovative Mechanical Engineering*, 2023, Vol. 2, No. 3, pp. 9-16, ISSN 2812-9229

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

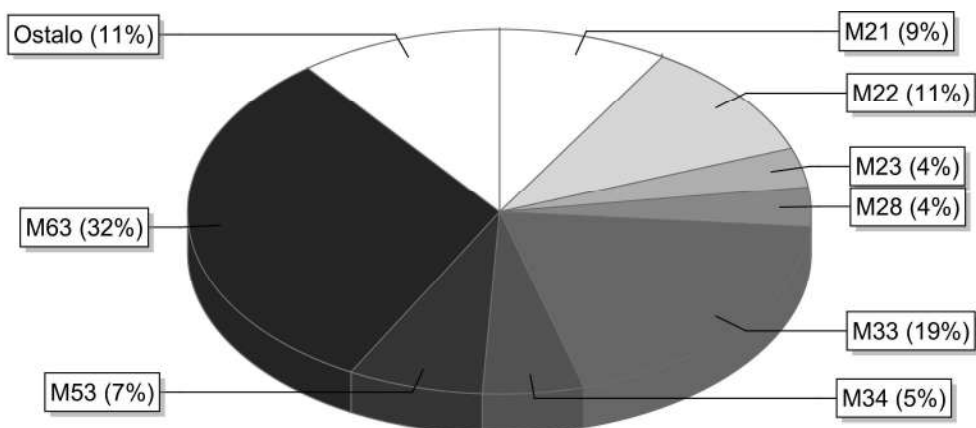
1. Aleksić A., Gostimirović M., Sekulić M., Savković B., Rodić D.: OPTIMIZATION OF SURFACE ROUGHNESS IN TURNING OF ALUMINUM ALLOY 2024-T3 USING TAGUCHI METHOD, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 26-27 Oktobar, 2023, pp. 219-224, ISBN 978-86-6022-610-7
2. Božić D., Ranisavljev M., Milošević M., Savković B., Lukić D.: The influence of the technological parameters of the production process and the material quality on the microgeometric product specifications, 39. *International Conference of Production Engineering - ICPE-S*, Novi Sad: Fakultet tehničkih nauka u Novom Sadu, 26.-27. Oktobar 2023., 26-27 Oktobar, 2023, pp. 388-393, ISBN 978-86-6022-610-7
3. Košarac A., Sekulić M., Savković B., Moljević S., Šikuljak L., Anić J., Aleksić A.: SMALL DATASET CHALLENGES: ASSESSING THE PERFORMANCE OF NEURAL NETWORKS AND RANDOM FORESTS IN Ti6Al4V ALLOY MACHINING OPTIMIZATION, 14. *International Scientific Conference ETIKUM*, Novi Sad: Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 45-50, ISBN 978-86-6022-617-6
4. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A.: Material removal rate during electrical discharge machining of zirconium oxide, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 26-27 Oktobar, 2023, pp. 153-157
5. Savković B., Sekulić M., Košarac A., Rodić D., Aleksić A., Moljević S., Anić J.: EFFECTS OF APPLYING A HYBRID MILLING PROCESS ASSISTED BY ULTRASONIC VIBRATIONS, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 26-27 Oktobar, 2023, pp. 189-194, ISBN 978-86-6022-610-7

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za metrologiju, kvalitet, pribore, alate i ekološko-inženjerske aspekte

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	5
Rad u istaknutom međunarodnom časopisu	M22	6
Rad u međunarodnom časopisu	M23	2
Uređivanje međunarodnog naučnog časopisa	M28	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	11
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	4
Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)	M54	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	18
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Agarski B., Budak I., Ilić Mićunović M., Vukelić Đ.: Life cycle assessment of injection moulding tools and multicomponent plastic cap production, Article Number: 137450, Journal of Cleaner Production, 2023, Vol. 413, ISSN 0959-6526

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Berladir K., Hovorun T., Ivanov V., Vukelić Đ., Pavlenko I.: Diffusion Nitride Coatings for Heat-Resistant Steels, Article Number: 6877, Materials, 2023, Vol. 16, No. 21, ISSN 1996-1944
2. Jovičić G., Milošević A., Kanović Ž., Šokac M., Šimunović G., Savković B., Vukelić Đ.: Optimization of Dry Turning of Inconel 601 Alloy Based on Surface Roughness, Tool Wear, and Material Removal Rate, Article Number: 1068, Metals, 2023, Vol. 13, No. 6, ISSN 2075-4701
3. Pinčjer I., Mikić N., Gvoić V., Maričić K., Vukelić Đ., Prica M.: Optimization of tensile strength in the paper material cutting process based on CO2 laser process parameters, Article Number: 2719, Materials, 2023, Vol. 16, No. 7, ISSN 1996-1944
4. Tadić A., Bajkin B., Mijatov I., Mirnić (Računica) J., Vukoje K., Šokac M., Vukelić Đ.: Influence of leukocyte- and platelet-rich fibrin on bone tissue healing after mandibular third molar surgical extraction, Article Number: 4823, Applied Sciences, 2023, Vol. 13, No. 8, ISSN 2076-3417
5. Tubić (rođ. Aleksić) A., Vujić rođ. Lončarski M., Gvoić V., Agbaba J., Vasiljević S., Cvetičanin L., Vukelić Đ., Prica M.: Sorption potential of microplastics for azo- and phthalocyanine printing dyes, Article Number: 110884, Dyes and Pigments, 2023, Vol. 209, ISSN 0143-7208

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Baloš S., Labus Zlatanović D., Kulundžić N., Janjatović P., Dramićanin M., Lanc Z., Hadžistević M., Radišić S., Rajnović D., Pećanac M.: Influence of Tool-base Metal Interface on the Performance of an Aluminium-Magnesium Alloys Joined by Bobbin Tool Friction Stir Welding, Metals, 2023, Vol. 13, ISSN 2075-4701
2. Baloš S., Labus Zlatanović D., Kulundžić N., Janjatović P., Dramićanin M., Lanc Z., Hadžistević M., Radišić S., Rajnović D., Pećanac M.: Influence of Tool-Base Metal Interference on the Performance of an Aluminium-Magnesium Alloy Joined via Bobbin Tool Friction Stir Welding, Metals, 2023, Vol. 13, No. 1215, ISSN 2075-4701
3. Bijelić I., Milovanović V., Vukelić Đ., Simunović G., Prica M., Šokac M., Tadić B.: Application of Sodium Silicate as a Phase Change Material in Fixture Design, Tehnički vjesnik - Technical Gazette, 2023, Vol. 30, No. 2, pp. 465-473, ISSN 1330-3651
4. Čojbašić (Radović) S., Turk Sekulić M., Agarski B., Pap S., Vukelić Đ., Budak I., Prodanović J.: Life cycle assessment of new bio-based coagulant production for sustainable wastewater treatment, International Journal of Environmental Science and Technology, 2023, Vol. 20, pp. 7433-7462, ISSN 1735-1472
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1. Vukelić Đ.: Editorial Board, Tehnički Glasnik - Technical Journal, 2023, Vol. 17, ISSN 1848-5588
2. Vukelić Đ.: Editorial Board, Tehnički vjesnik - Technical Gazette, 2023, Vol. 30, ISSN 1330-3651

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Blanuša V., Movrin D., Štrbac B., Hadžistević M., Ranisavljev M.: THE INFLUENCE OF TECHNOLOGICAL

PARAMETERS ON THE GEOMETRIC PRODUCT SPECIFICATION OF THE PARTS MANUFACTURED BY THE FUSED DEPOSITION MODELING, 9. *International Conference „New Technologies, Development and Application“ - NT*, Sarajevo: Springer, 22-24 June, 2023, ISBN 978-303131065-2

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3. Đurović Koprivica D., Jeremić-Knežević M., Maletin (Anđelković) A., Milekić (rođ. Jević) B., Puškar T., Ilić Mićunović M.: COMPUTER GUIDED DENTAL IMPLANT PLACEMENT, 14. *International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 7-9 December, 2023, pp. 141-144, ISBN ISBN 978-86-6022-617, UDK: 62:006.91(082)(0.034.2)
4. Ilić J., Grbić T., Hadžistević M., Milutinović M., Kraišnik M., Movrin D.: Influence of process parameters in the process of deep drawing with plastic tool, 16. *International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: FACULTY OF MECHANICAL ENGINEERING UNIVERSITY OF BANJA LUKA, 1-2 June, 2023, pp. 84-89, ISBN 978-99976-11-04-8
5. Jotić G., Štrbac B., Toth T., Ranisavljev M., Hadžistević M., Dovica M., Runje B.: Investigation of the Influence of Characteristic Parameters on the Accuracy of CT Measurement, 16. *International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: Faculty of Mechanical Engineering, University of Banja Luka, 1-2 June, 2023, pp. 439-444, ISBN 978-99976-11-03-1
6. Jovičić G., Milošević A., Šokac M., Santoši Ž., Kočović V., Šimunović G., Vukelić Đ.: The modelling of surface roughness after the turning of inconel 601 by using artificial neural network, 18. *International Conference on Tribology - SERBIATRIB*, Kragujevac: Serbian Tribology Society and Faculty of Engineering, 17-19 May, 2023, pp. 779-788, ISBN 978-86-6335-103-5
7. Kočović V., Kostić S., Džunić D., Petrović Savić S., Bijelić I., Miljanić D., Vukelić Đ.: Optimization of the micro-cutting process in order to reduce the surface roughness, 18. *International Conference on Tribology - SERBIATRIB*, Kragujevac: Serbian Tribology Society and Faculty of Engineering, 17-19 May, 2023, pp. 587-594, ISBN 978-86-6335-103-5
8. Matin I., Štrbac B., Ilić Mićunović M., Ranisavljev M., Hadžistević M., Lanc Z.: NUMERICAL SIMULATION AND VERIFICATION OF SINK MARKS ON THE MANUFACTURED PLASTIC PARTS, 11. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: University of Novi Sad Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia, 7-8 October, 2021, pp. 174-179, ISBN 978-86-7672-368-3
9. Miroslavljević Z., Zoraja B., Ilić Mićunović M.: STATUS OF PACKAGING GLASS WASTE MANAGEMENT IN SERBIA, 20. *20th International Conference "Man and Working Environment" Safety Engineering & Management - Science, Industry, Education (SEM-SIE 2023)*, Niš, 7-8 December, 2023, pp. 81-83, ISBN 978-86-6093-115-5
10. Puškar N., Puškar M., Šokac M., Santoši Ž., Kuzmanović M., Budak I., Vukelić Đ.: Analysis of surface roughness and static friction coefficient of Co-Cr-Mo alloy for removable partial denture framework, 18. *International Conference on Tribology - SERBIATRIB*, Kragujevac: Serbian Tribology Society and Faculty of Engineering, 17-19 May, 2023, pp. 668-674, ISBN 978-86-6335-103-5
11. Ranisavljev M., Štrbac B., Hadžistević M., Dudić B., Bobić Z., Božić D.: ROUGHNESS MEASUREMENT OPTIMIZATION OF REFLECTIVE SURFACES BY FOCUS VARIATION METHOD, 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, Novi Sad, 5-6 October, 2023, ISBN 978-86-6022-623-7

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Agarski B., Maoduš N., Ubavin D., Jovanović S., Milošević A., Ilić Mićunović M., Vukelić Đ.: Life Cycle Assessment of products based on environmental product declarations data, 29. *International Symposium on Analytical and Environmental Problems*, Segedin: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 10-10, ISBN 978-963-306-963-9
2. Agarski B.: Life Cycle Assessment of Products Based on Environmental Product Declarations Data, 29. *International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 10-10, ISBN 978-963-306-963-9
3. Puškar T., Budak I., Jeremić-Knežević M., Đurović Koprivica D., Maletin (Anđelković) A., Puškar M., Vukelić Đ.: APPLICATION OF MODERN TECHNOLOGIES AND COMPUTER AIDED SYSTEMS IN PROSTHETIC DENTISTRY, 2. *PSU-UNS Joint Conference on Medical Science and Technology*, Novi Sad, 11-13 October, 2023, pp. 71-72

### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

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### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Abeer M., Šokac M.: Ispitivanje biotribooloških i dimenzionalnih karakteristika polimetilmetakrilata za primenu u dentalnoj protetici, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 4, pp. 560-563, ISSN 0350-428X, UDK: 004.65:61
2. Jovanović S., Agarski B., Ubavin D.: Ocenjivanje potencijala globalnog zagrevanja pri upravljanju komunalnim otpadom za opštinu Novi Sad, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 11, pp. 1442-1445, ISSN 0350-428X, UDK: 502/504
3. Mijuk A., Šokac M.: Analiza biotribooloških karakteristika i odnosa između metalne vođice i hirurškog gajdera, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 4, pp. 556-559, ISSN 0350-428X, UDK: 004.65:61
4. Milošević A., Agarski B., Vukelić Đ.: Ocenjivanje životnog ciklusa modularnog pribora za obradu poklopca kućišta, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 11, pp. 1529-1532, ISSN 0350-428X

### **Spisak rezultata M54 - Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)**

1. Vukelić Đ.: Editorial Board, *Tribology in Industry*, 2023, Vol. 45, ISSN 0354-8996

### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

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2. Božić D., Milošević M., Lukić D., Santoši Ž.: Primena vizuelnog pretraživača 3D CAD modela kod redizajniranja proizvoda, *14. International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka u Novom Sadu, 7-9. Decembar 2023., 7-9 Decembar, 2023, pp. 1-4, ISBN 978-86-6022-618-3
3. Božić D., Ranisavljev M., Milošević M., Savković B., Lukić D.: The influence of the technological parameters of the production process and the material quality on the microgeometric product specifications, *39. International Conference of Production Engineering - ICPE-S*, Novi Sad: Fakultet tehničkih nauka u Novom Sadu, 26.-27. Oktobar 2023., 26-27 Oktobar, 2023, pp. 388-393, ISBN 978-86-6022-610-7
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5. Ilić Mićunović M., Kuzmanović M., Budak I., Agarski B., Vukelić Đ.: Ispitivanje prisustva respiratornih aerosola prilikom stomatoloških intervencija, *14. International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 145-148, ISBN 978-86-6022-618-3
6. Janković P., Madić M., Hadžistević M., Štrbac B.: APPLICATION OF CONTROL CHARTS IN THE ANALYSIS OF MEASUREMENT SYSTEMS, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: UNIVERSITY OF NOVI SAD, FACULTY OF TECHNICAL SCIENCES, 26-27 Oktobar, 2023, pp. 360-365, ISBN 978-86-6022-610-7
7. Jovanović S., Budak I., Ilić Mićunović M., Agarski B.: Potrošnja električne energije i uticaj hotela na potencijal globalnog zagrevanja, *14. International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 7-9 Decembar, 2023, pp. 213-216, ISBN 978-86-6022-617-6
8. Jovičić G., Kanović Ž., Šokac M., Santoši Ž., Mitrović S., Šimunović G., Vukelić Đ.: Modelling of surface roughness and tool wear during the turning of inconel 601 alloy using artificial neural networks, *14. International Scientific Conference ETIKUM*, Novi Sad: Faculty of Technical Sciences, 7-9 Decembar, 2023, pp. 29-32, ISBN 978-86-6022-618-3
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10. Marinković D., Milošević A., Knežev M., Mladenović C.: Proračun elemenata i CAE analiza mašinske stege, *14. International Scientific Conference ETIKUM*, Novi Sad, 7-9 Decembar, 2023, pp. 69-72, ISBN 978-86-6022-617-6
11. Matin I., Štrbac B., Hadžistević M., Ranisavljev M.: MOLD DESIGN OF MODULAR INJECTION MOLDS, *14. International Scientific Conference ETIKUM*, Novi Sad, 7-9 Decembar, 2023, pp. 73-76, ISBN 978-86-6022-617-6
12. Matin I., Štrbac B., Ranisavljev M., Hadžistević M., Lanc Z.: NUMERICAL AND EXPERIMENTAL RESEARCH OF SHRINKAGE AND SINK MARKS ON INJECTION MOLDED PLASTIC PARTS , *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 Oktobar, 2023, pp. 134-139, ISBN 978-86-6022-610-7
13. Milošević A., Agarski B., Šokac M., Šimunović G., Kočović V., Vukelić Đ.: Implementation of life cycle assessment in the design process of fixture for reducer housing machining, *14. International Scientific Conference ETIKUM*, Novi Sad: Faculty of Technical Sciences, 7-9 Decembar, 2023, pp. 85-88, ISBN 978-86-6022-618-3
14. Ranisavljev M., Štrbac B., Santoši Ž., Šokac M., Matin I., Hadžistević M., Jotić G.: APPLICATION OF SEGMENTATION ALGORITHMS FOR MONO AND MULTI-MATERIAL COMPONENTS IN COMPUTED TOMOGRAPHY, *14. International Scientific Conference ETIKUM*, Novi Sad, 7-9 Decembar, 2023, pp. 105-108, ISBN 978-86-6022-617-6
15. Santoši Ž., Ranisavljev M., Šokac M., Vukelić Đ.: Analysis of the scanning spray layer thickness using the focus variation method, *39. International Conference of Production Engineering - ICPE-S*, Novi Sad: Fakultet tehničkih nauka u Novom Sadu, 26-27 Oktobar, 2023, pp. 377-381, ISBN 978-86-6022-610-7
16. Šokac M., Katić M., Milošević A., Ranisavljev M., Santoši Ž., Vukelić Đ.: Primena industrijskog CT-a kao alata za dimenzionalnu analizu i detekciju defekata kod odlivaka, *14. International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 121-124, ISBN 978-86-6022-618-3
17. Tabaković S., Lazendić T., Hadžistević M.: ANALYSIS OF THE IMPACT OF INDUSTRY 4.0 TECHNOLOGIES ON OCCUPATIONAL SAFETY AND HEALTH, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: University of Novi Sad, Faculty of technical sciences, 26-27 Oktobar, 2023, pp. 371-376, ISBN 978-86-6022-610-7, UDK: 621.71.9(082)
18. Tešić S., Jotić G., Čiča Đ., Sredanović B., Štrbac B., Ranisavljev M.: ANALYSIS OF THE POSSIBILITY OF USING DIFFERENT MEASURING SYSTEMS FOR TESTING THE ACCURACY OF MACHINE TOOLS, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: UNIVERSITY OF NOVI SAD, FACULTY OF TECHNICAL SCIENCES , 26-27 Oktobar, 2023, pp. 382-387, ISBN 978-86-6022-610-7

**Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

1. Agarski B., Maoduš N., Ubavin D., Jovanović S., Milošević A., Ilić Mićunović M., Vukelić Đ.: Life Cycle Assessment of Products Based on Environmental Product Declarations Data, *29. International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 Novembar, 2023, pp. 10-10, ISBN 978-963-306-963-9

**Spisak rezultata M82 - Nova proizvodna linija, novi materijal, industrijski prototip,**

1. Kočović V., Kostić S., Petrović A., Vukelić Đ., Tadić B.: Mala laboratorijska kidalica za ispitivanje mehaničkih karakteristika materijala zatezanjem, 2023

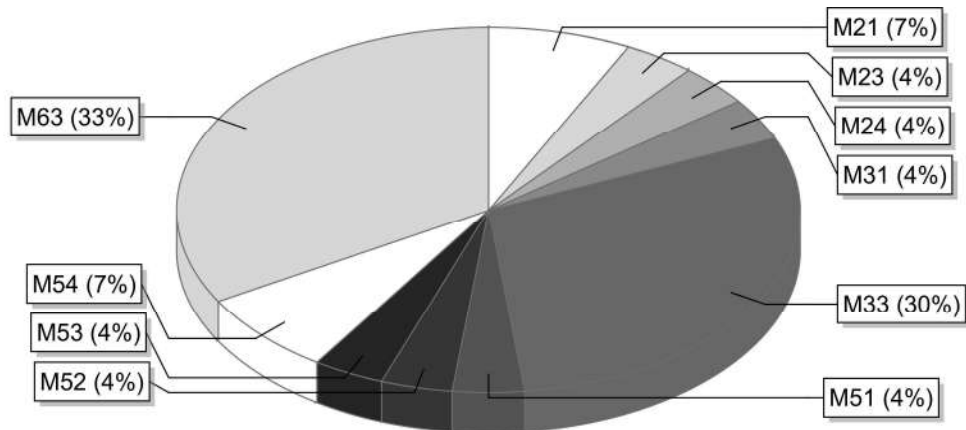


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za mašine alatke, tehnološke procese, fleksibilne tehnološke sisteme i procese

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u međunarodnom časopisu	M23	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	1
Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)	M54	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	9



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Jovičić G., Milošević A., Kanović Ž., Šokac M., Šimunović G., Savković B., Vukelić Đ.: Optimization of Dry Turning of Inconel 601 Alloy Based on Surface Roughness, Tool Wear, and Material Removal Rate, Article Number: 1068, Metals, 2023, Vol. 13, No. 6, ISSN 2075-4701
2. Knežević I., Rackov M., Kanović Ž., Buljević A., Antić A., Tica M., Živković A.: An Analysis of the Influence of Surface Roughness and Clearance on the Dynamic Behavior of Deep Groove Ball Bearings Using Artificial Neural Networks, Materials, 2023, Vol. 16, No. 9, pp. 3529-3546, ISSN 1996-1944

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Tabaković S., Budimir A., Zeljković M.: The Influence of the Movement Method on the Results of Machine Tool Positioning Accuracy Analysis, Measurement Science Review, 2023, Vol. 23, No. 3, pp. 136-145, ISSN 1335-8871

### **Spisak rezultata M24 - Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom**

1. Košarac A., Tabaković S., Mladenović C., Zeljković M., Orašanin G.: Next-Gen Manufacturing: Machine Learning for Surface Roughness Prediction in Ti-6Al-4V Biocompatible Alloy Machining, Journal of Manufacturing and Materials Processing, 2023, Vol. 7, No. 6, pp. 1-19, ISSN 2504-4494

### **Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Milošević M.: Cloud Manufacturing System for Collaborative Process Planning, 1. *International Scientific Conference "Basic technologies and models for implementation of industry 4.0"*, Sarajevo: Academy of Sciences and Arts of Bosnia and Herzegovina, 5-6 October, 2023, ISBN 978-9926-410-89-6

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Đurđev M., Lukić D., Milošević M., Novaković B., Đorđević L., Desnica (Ginin) E., Pekez (Ciglić) J.: Optimization of cutting parameters using swarm-based algorithms, 6. *International Conference Mechanical Engineering in XXI Century - MASING*, Niš: Faculty of Mechanical Engineering, University of Nis, 14-15 December, 2023, pp. 47-50, ISBN 978-86-6055-183-4
2. Đurđev M., Milošević M., Lukić D., Antić A., Novaković B., Đorđević L.: Gauss-Based Honey Badger Algorithm for Step-Cone Pulley Optimization Problem, 9. *International Conference „New Technologies, Development and Application“ - NT*, Sarajevo: Springer, 22-24 June, 2023, ISBN 978-3-031-31065-2
3. Jovičić G., Milošević A., Šokac M., Santoši Ž., Kočović V., Šimunović G., Vukelić Đ.: The modelling of surface roughness after the turning of inconel 601 by using artificial neural network, 18. *International Conference on Tribology - SERBIATRIB*, Kragujevac: Serbian Tribology Society and Faculty of Engineering, 17-19 May, 2023, pp. 779-788, ISBN 978-86-6335-103-5
4. Knežev M., Živković A., Mladenović C., Marinković D., Ilić V., Moravec M.: Finite element and experimental modal analysis of high speed spindle, 16. *International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: Faculty of Mechanical Engineering University of Banja Luka, 1-2 June, 2023, pp. 60-63, ISBN 978-99976-11-04-8
5. Ranisavljev M., Štrbac B., Hadžistević M., Dudić B., Bobić Z., Božić D.: ROUGHNESS MEASUREMENT OPTIMIZATION OF REFLECTIVE SURFACES BY FOCUS VARIATION METHOD, 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, Novi Sad, 5-6 October, 2023, ISBN 978-86-6022-623-7
6. Šajnović T., Rodić D., Gostimirović M., Lukić D., Milošević M.: Surface Roughness Optimization in Laser Cutting by using Taguchi Method, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical Faculty "Mihajlo Pupin", 5-6 October, 2023, pp. 195-199, ISBN 978-86-7672-368-3
7. Tabaković S., Živanović S., Zeljković M., Budimir A., Dimić Z.: Examination of the positioning accuracy of the machine tool with hybrid kinematics, 16. *International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: Mašinski fakultet, Banja Luka, 1-2 June, 2023, pp. 47-53
8. Vukman J., Milošević M., Antić A., Božić D., Todić V., Lukić D.: Optimization of high-speed machining parameters of thin-walled aluminium structures in the function of surface roughness, 16. *International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: Faculty of Mechanical Engineering, University of Banja Luka, 1-2 June, 2023, pp. 104-109, ISBN 978-99976-11-04-8

### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Tabaković S., Živanović S., Slavković N., Dimić Z.: Programiranje i verifikacija programa za robote koji izvršavaju zadatke mašinske obrade, Tehnika, 2023, Vol. 58, No. 2, pp. 167-176, ISSN 0040-2176, UDK:

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**Spisak rezultata M53 - Rad u naučnom časopisu**

1. Tabaković S., Živanović S., Slavković N., Dimić Z.: Programiranje i verifikacija programa za robote koji izvršavaju zadatke mašinske obrade, *Tehnika*, 2023, Vol. 73, No. 2, pp. 167-176, ISSN 0040-2176, UDK: 621.7.06:004.4

**Spisak rezultata M54 - Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)**

1. Đurđev M., Lukić D., Milošević M., Novaković B., Desnica (Ginin) E., Pekez (Ciglić) J.: Nature-inspired metaheuristic algorithms in optimization of machining parameters, *INNOVATIVE MECHANICAL ENGINEERING*, University of Niš, Faculty of Mechanical Engineering, 2023, Vol. 2, No. 3, pp. 1-8, ISSN 2812-9229
2. Simić S., Milošević M., Kosec B., Božić D., Lukić D.: Application of the multicriteria decision-making for selecting optimal maintenance strategy, *Advanced Engineering Letters* 2023, 2023, Vol. 2, No. 4, pp. 151-160, ISSN 2812-9709

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

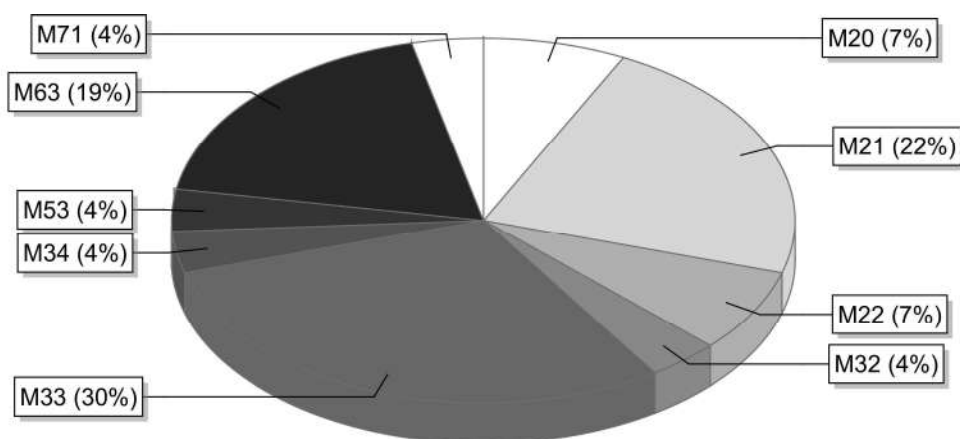
1. Božić D., Milošević M., Lukić D., Santoši Ž.: Primena vizuelnog pretraživača 3D CAD modela kod redizajniranja proizvoda, *14. International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka u Novom Sadu, 7.-9. Decembar 2023., 7-9 Decembar, 2023, pp. 1-4, ISBN 978-86-6022-618-3
2. Božić D., Ranisavljev M., Milošević M., Savković B., Lukić D.: The influence of the technological parameters of the production process and the material quality on the microgeometric product specifications, *39. International Conference of Production Engineering - ICPE-S*, Novi Sad: Fakultet tehničkih nauka u Novom Sadu, 26.-27. Oktobar 2023., 26-27 Oktobar, 2023, pp. 388-393, ISBN 978-86-6022-610-7
3. Jovičić G., Milošević A., Šokac M., Santoši Ž., Kočović V., Šimunović G., Vukelić Đ.: Evaluation of tool wear and surface roughness during dry turning of Inconel 601 with PVD and CVD inserts, *2. Konferencija sa međunarodnim učešćem "Napredne tehnologije u obrazovanju i privredi"*, Vrnjačka Banja: Visoka tehnička škola strukovnih studija, 30-31 Maj, 2023, pp. 1-8, ISBN 978-86-6211-145-6
4. Marinković D., Knežev M., Živković A., Mladenović C., Mejić L.: Analiza dimaničkih karakteristika držača alata za obradu struganjem, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 Oktobar, 2023, pp. 284-287, ISBN 978-86-6022-610-7
5. Marinković D., Milošević A., Knežev M., Mladenović C.: Proračun elemenata i CAE analiza mašinske stege, *14. International Scientific Conference ETIKUM*, Novi Sad, 7-9 Decembar, 2023, pp. 69-72, ISBN 978-86-6022-617-6
6. Tabaković S., Grujić J., Zeljković M., Vučinić Z., Rajković S., Bogosavljević N.: RAZVOJ MEGA ENDOPROTEZE NADLAKTICE „TOTAL HUMERUS“, *22. International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: Mašinski fakultet, istočno Sarajevo, 15-17 Mart, 2023, pp. 18-23
7. Tabaković S., Lazendić T., Hadžistević M.: ANALYSIS OF THE IMPACT OF INDUSTRY 4.0 TECHNOLOGIES ON OCCUPATIONAL SAFETY AND HEALTH, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: University of Novi Sad, Faculty of technical sciences, 26-27 Oktobar, 2023, pp. 371-376, ISBN 978-86-6022-610-7, UDK: 621.71.9(082)
8. Tabaković S., Živanović S., Zeljković M., Dimić Z.: VARIANTS OF HYBRID KINEMATICS MACHINE TOOLS BASED ON O-X GLIDE MECHANISM WITH ADDITIONAL ROTARY AXES, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: University of Novi Sad, Faculty of technical sciences, 26-27 Oktobar, 2023, pp. 278-283, ISBN 978-86-6022-610-7, UDK: 621.71.9(082)
9. Tomić D., Lazarević M., Ostojić G., Sremčev N., Antić A.: PRIMENA LEANA KAO PRIPREMA ZA DIGITALIZACIJU U USLUGAMA, *29. Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 377-382

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za materijale i tehnologije spajanja

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u vrhunskom međunarodnom časopisu	M21	6
Rad u istaknutom međunarodnom časopisu	M22	2
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5
Odbranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Erceg T., Vukić (Skerlić) N., Šovljanski O., Teofilović V., Porobić S., Baloš S., Kojić S., Terek P., Banjanin B., Rakić S.: Preparation and characterization of biodegradable cellulose acetate-based films with novel plasticizer obtained by polyethylene terephthalate glycolysis intended for active packaging, *Cellulose*, 2023, ISSN 0969-0239
2. Labus Zlatanović D., Hildebrand J., Bergmann J.: The study of screw extrusion-based additive manufacturing of eco-friendly aliphatic polyketone, *Journal of Materials Research and Technology*, 2023, Vol. 25, pp. 4125-4138, ISSN 2238-7854

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

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2. Brnić J., Baloš S., Brčić M., Dramićanin M., Krscancki S., Milutinović M., Ding B., Cao Z.: Testing and Analysis of Uniaxial Mechanical Fatigue, Charpy Impact Fracture Energy and Microhardness of Two Low-Carbon Steels, *Materials*, 2023, Vol. 16, ISSN 1996-1944
3. Gavalec M., Barenyi I., Krbata M., Kohutiar M., Baloš S., Pećanac M.: The Effect of Rotary FrictionWelding Conditions on the Microstructure and Mechanical Properties of Ti6Al4V Titanium Alloy Welds, *Materials*, 2023, Vol. 16, ISSN 1996-1944
4. Labus Zlatanović D., Bergmann J., Baloš S., Hildebrand J., Bojanić Šejat M., Goel S.: Effect of surface oxide layers in solid-state welding of aluminium alloys – review, *Science and Technology of Welding and Joining*, 2023, pp. 1-21, ISSN 1362-1718
5. Labus Zlatanović D., Eigenbrod H., Stötzel M., Bergmann J., Hildebrand J.: Effects of cryogenic cooling on machining of acrylonitrile-butadiene rubber, *Journal of Manufacturing Processes*, 2023, Vol. 90, pp. 429-442, ISSN 1526-6125
6. Sekulić Z., Grbović Novaković J., Babić B., Prvulović M., Milanović I., Novaković N., Rajnović D., Filipović N., Asanović V.: The Catalytic Effect of Vanadium on Sorption Properties of MgH<sub>2</sub>-Based Nanocomposites Obtained Using Low Milling Time, *Materials*, 2023, Vol. 16, No. 5480, pp. 1-12, ISSN 1996-1944

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Baloš S., Labus Zlatanović D., Kulundžić N., Janjatović P., Dramićanin M., Lanc Z., Hadžistević M., Radišić S., Rajnović D., Pećanac M.: Influence of Tool-base Metal Interface on the Performance of an Aluminium-Magnesium Alloys Joined by Bobbin Tool Friction Stir Welding, *Metals*, 2023, Vol. 13, ISSN 2075-4701
2. Baloš S., Labus Zlatanović D., Kulundžić N., Janjatović P., Dramićanin M., Lanc Z., Hadžistević M., Radišić S., Rajnović D., Pećanac M.: Influence of Tool–Base Metal Interference on the Performance of an Aluminium–Magnesium Alloy Joined via Bobbin Tool Friction Stir Welding , *Metals*, 2023, Vol. 13, No. 1215, ISSN 2075-4701

### **Spisak rezultata M32 - Predavanje po pozivu sa međunarodnog skupa štampano u izvodu**

1. Teofilović V., Erceg T., Baloš S.: Enhancing the Biodegradable Bags Production Process: Optimizing Parameters for Sustainability, *8. International FAPS Polymer Congress*, Istanbul: FAPS (Federation of Asian Polymer Societies), 11-14 September, 2023, pp. 29-29

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Brdar A., Ilić K., Spasojević S., Labus Zlatanović D., Janjatović P., Zabunov I., Dramićanin M., Pećanac M., Trivković (Ristić) M., Rajnović D., Baloš S., Šiđanin (Sidjanin) L.: Ultrasonic welding of copper conductors, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 October, 2023, pp. 113-117
2. Budošan D., Bikić S., Al Afif R., Baloš S., Radojčin M.: Morphology and Chemical Composition of the Black Powder Collected at the Gas Metering and Regulating Station "Jarak", *8. SUSTAINABLE POSTHARVEST AND FOOD TECHNOLOGIES- INOPTEP*, Palić: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, 23-28 April, 2023, pp. 5-9, ISBN 978-86-7520-589-0
3. Ilić K., Hauck A., Brdar A., Spasojević S., Dramićanin M., Pećanac M., Janjatović P., Trivković (Ristić) M., Rajnović D., Baloš S., Šiđanin (Sidjanin) L.: Influence of WAAM technology parameters on properties of structural steel walls, *39. Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 October, 2023, pp. 99-104
4. Janjatović P., Rajnović D., Baloš S., Dramićanin M., Erić Cekić O., Pećanac M., Labus Zlatanović D.,

Šiđanin (Sidjanin) L.: The effect of critical water concentration on the embrittlement of austempered ductile irons, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 October, 2023, pp. 72-76

5. Pećanac M., Labus Zlatanović D., Kulundžić N., Dramićanin M., Baloš S.: MECHANICAL PROPERTIES OF WELDS OBTAINED BY BOBBIN TOOL FRICTION STIR WELDING PROCESS, 12. *International Scientific-Professional Conference "Engineering Technologies in Manufacturing of Welded Constructions and Products"* - SBW, Slavonski Brod, 26-28 April, 2023, pp. 397-407
6. Pećanac M., Labus Zlatanović D., Kulundžić N., Dramićanin M., Janjatović P., Trivković (Ristić) M., Rajnović D., Baloš S., Šiđanin (Sidjanin) L.: Influence of shoulder pinching gap on mechanical properties of the bobbin tool FSW welded joints, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Biblioteka Matice srpske, 26-27 October, 2023, pp. 88-93, ISBN 978-86-6022-610-7
7. Skakun (Francuski) P., Rajnović D., Janjatović P., Dramićanin M.: An experimental method for strain state determination in bulk metal forming, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 October, 2023, pp. 77-80
8. Spasojević S., Ilić K., Brdar A., Dramićanin M., Pećanac M., Janjatović P., Trivković (Ristić) M., Rajnović D., Baloš S., Šiđanin (Sidjanin) L.: Ispitivanje balističke otpornosti šljema ojačanog aramidnim vlaknima, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Biblioteka Matice srpske, 26-27 October, 2023, pp. 94-98

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Adamović (Majkić) S., Tomić I., Banjanin B., Milošević R., Adamović D., Mihailović A., Dramićanin M.: The heavy metals in the processing screen printing inks, 29. *International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 64-65, ISBN 978-963-306-963-9

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Ružić D., Radošević M., Simikić M., Baloš S.: Neadekvatne korektivne intervencije na poljoprivrednoj mehanizaciji ili njihov izostanak kao uzrok nezgoda, Traktori i pogonske mašine, 2023, Vol. 28, No. 3/4, pp. 41-47, ISSN 0354-9496, UDK: 621.791

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Adamović (Majkić) S., Milošević R., Banjanin B., Tomić I., Adamović D., Mihailović A., Dramićanin M.: Gasovite zagađujuće materije u radnom okruženju tampon mašine, 14. *International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of technical sciences, Department of production engineering, 7-9 Decembar, 2023, pp. 185-188, ISBN 978-86-6022-617-6
2. Maksimović N., Milutinović M., Labus Zlatanović D., Baloš S.: Mikrotvrdoća i mikrostrukturalna analiza feritnog nerđajućeg čelika u deformisanom stanju, 14. *International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 65-68, ISBN 978-86-6022-618-3
3. Skakun (Francuski) P., Rajnović D., Janjatović P., Dramićanin M.: Experimental determination of strain state in metal forming, 14. *International Scientific Conference ETIKUM*, Novi Sad, 7-9 Decembar, 2023, pp. 109-112
4. Spasojević S., Dramićanin M.: Uticaj temperature i deformacije na tvrdoću čelika AISI 304L, 14. *International Scientific Conference ETIKUM*, Novi Sad, 7-9 Decembar, 2023, pp. 113-116
5. Stojšić N., Jevtić N., Borović Z., Pećanac M., Baloš S.: Uticaj brzine laserskog zavarivanja na oblik metala šava, 14. *International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 117-120, ISBN 978-86-6022-618-3

#### **Spisak rezultata M71 - Odbranjena doktorska disertacija**

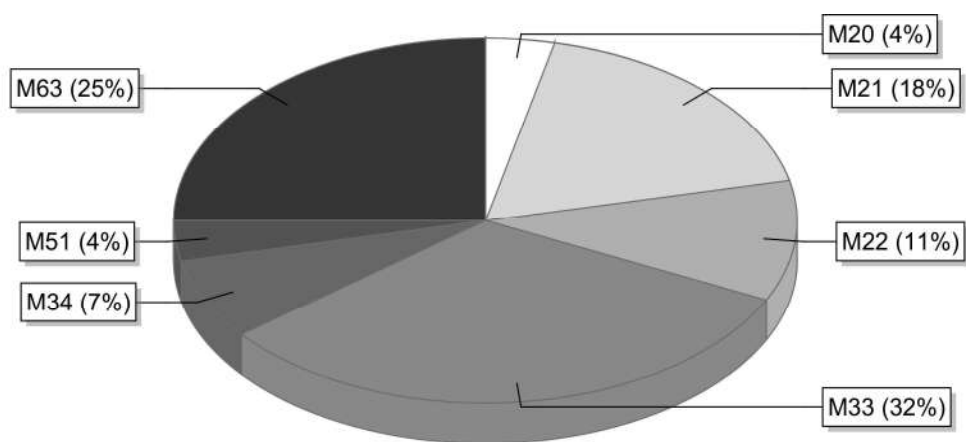
1. Janjatović P.: Uticaj vode na pojavu krtosti kod konvencionalnih i dvofaznih ADI materijala, Novi Sad, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za tehnologije oblikovanjem i inženjerstvo površina

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	5
Rad u istaknutom međunarodnom časopisu	M22	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	9
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Rad u vodećem časopisu nacionalnog značaja	M51	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	7



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Erceg T., Vukić (Skerlić) N., Šovljanski O., Teofilović V., Porobić S., Baloš S., Kojić S., Terek P., Banjanin B., Rakić S.: Preparation and characterization of biodegradable cellulose acetate-based films with novel plasticizer obtained by polyethylene terephthalate glycolysis intended for active packaging, *Cellulose*, 2023, ISSN 0969-0239

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Brnić J., Baloš S., Brčić M., Dramićanin M., Krscancki S., Milutinović M., Ding B., Cao Z.: Testing and Analysis of Uniaxial Mechanical Fatigue, Charpy Impact Fracture Energy and Microhardness of Two Low-Carbon Steels, *Materials*, 2023, Vol. 16, ISSN 1996-1944
2. Erceg T., Rackov S., Terek P., Pilić B.: Preparation and Characterization of PHBV/PCL-Diol Blend Films, *Polymers*, 2023, Vol. 15, ISSN 2073-4360
3. Lužanin O., Gudurić V., Bernhardt A., Movrin D., Damjanović-Vasilić Lj., Terek P., Ostojić G., Stankovski S.: Impact of In-Process Crystallinity of Biodegradable Scaffolds Fabricated by Material Extrusion on the Micro- and Nanosurface Topography, Viability, Proliferation, and Differentiation of Human Mesenchymal Stromal Cells (<https://doi.org/10.3390/polym15061468>), *Polymers*, 2023, Vol. 15, No. 1468, ISSN 2073-4360
4. Pepelnjak T., Stojšić J., Sevšek L., Movrin D., Milutinović M.: Influence of Process Parameters on the Characteristics of Additively Manufactured Parts Made from Advanced Biopolymers, *Polymers*, 2023, Vol. 15, No. 3, ISSN 2073-4360
5. Prorok V., Movrin D., Lukić N., Popović S.: New Insights into the Fouling of a Membrane during the Ultrafiltration of Complex Organic-Inorganic Feed Water, *Membranes*, 2023, Vol. 13, No. 3, ISSN 2077-0375

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Alexandrov S., Vilotić M., Dačević N., Li Y.: Identification of Hosford's Yield Criterion Using Compression Tests, *Metals*, 2023, Vol. 13, No. 3, ISSN 2075-4701
2. Drnovšek A., Kukuruzović D., Terek P., Miletić A., Čekada M., Panjan M., Panjan P.: Microstructural, Mechanical and Oxidation Resistance of Nanolayer Sputter-Deposited CrAlN Hard Coatings, *Coatings*, 2023, No. 13, pp. 2096-30116, ISSN 2079-6412
3. Grabco D., Shikimaka O., Pyrtsac C., Topal D., Vilotić D., Vilotić M., Alexandrov S.: Modification of Microstructure and Mechanical Parameters of Austenitic Steel AISI 316L under the Action of Low Friction, *Metals*, 2023, Vol. 13, No. 7, ISSN 2075-4701

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Blanuša V., Movrin D., Štrbac B., Hadžistević M., Ranisavljev M.: THE INFLUENCE OF TECHNOLOGICAL PARAMETERS ON THE GEOMETRIC PRODUCT SPECIFICATION OF THE PARTS MANUFACTURED BY THE FUSED DEPOSITION MODELING, 9. *International Conference „New Technologies, Development and Application“ - NT*, Sarajevo: Springer, 22-24 June, 2023, ISBN 978-303131065-2
2. Bobić Z., Kovačević L., Terek V., Škorić B., Csik A., Čekada M., Terek P.: EFFECTS OF SURFACE ROUGHNESS ON RESULTS OF SCRATCH TEST OF DIFFERENT PVD HARD COATINGS, 18. *International Conference on Tribology - SERBIATRIB*, Kragujevac: Faculty of Engineering, University of Kragujevac, 17-19 May, 2023, pp. 355-361, ISBN 978-86-6335-103-5
3. Ilić J., Grbić T., Hadžistević M., Milutinović M., Kraišnik M., Movrin D.: Influence of process parameters in the process of deep drawing with plastic tool, 16. *International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: FACULTY OF MECHANICAL ENGINEERING UNIVERSITY OF BANJA LUKA, 1-2 June, 2023, pp. 84-89, ISBN 978-99976-11-04-8
4. Panić M., Stefanović Lj., Milutinović M., Movrin D.: FE Analysis of ring rolling process for large-scale components, 6. *International Conference Mechanical Engineering in XXI Century - MASING*, Niš, 14-15 December, 2023
5. Putnik I., Petrović N., Adamov L., Vejin M., Miroslav Đ., Movrin D., Kojić S.: SLA printed microfluidic chips: Printing orientation influence on printing quality, 14. *International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department of production engineering, Chair of metrology, quality, fixtures, tools and ecological engineering aspects, 7-9 December, 2023, pp. 169-172, ISBN 978-86-6022-387-8
6. Ranisavljev M., Štrbac B., Hadžistević M., Dudić B., Bobić Z., Božić D.: ROUGHNESS MEASUREMENT OPTIMIZATION OF REFLECTIVE SURFACES BY FOCUS VARIATION METHOD, 19. *International*



*Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, Novi Sad, 5-6 October, 2023, ISBN 978-86-6022-623-7

7. Skakun (Francuski) P., Rajnović D., Janjatović P., Dramićanin M.: An experimental method for strain state determination in bulk metal forming, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 October, 2023, pp. 77-80
8. Terek V., Kovačević L., Bobić Z., Škorić B., Drnovšek A., Čekada M., Panjan P., Terek P.: TRIBOLOGICAL BEHAVIOR OF TIALN AND NANOLAYERED TIALN/TISIN COATING TESTED AT HIGH TEMPERATURES, 18. *International Conference on Tribology - SERBIATRIB*, Kragujevac: Faculty of Engineering, University of Kragujevac, 17-19 May, 2023, pp. 315-320, ISBN 978-86-6335-103-5
9. Terek V., Kovačević L., Drnovšek A., Panjan P., Škorić B., Kovač J., Bobić Z., Terek P.: Evaluation of high temperature tribological properties of magnetron sputtered nanolayered TiAlN/TiSiN coating on cemented carbide, 66. *Annual SVC Technical Conference*, Washington, DC: Society of Vacuum Coaters, 6-11 May, 2023, pp. 280-287, ISBN 978-1-878068-43-9

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Drobnič M., Terek V., Čekada M.: CONTACT TEMPERATURE ANALYSIS IN BALL ON DISC TESTING AT ROOM AND HIGH TEMPERATURES, 29. *International Scientific Meeting on Vacuum Science and Technique - ISMVST*, Gozd Martuljek: Slovenian Society for Vacuum Technique, 10-12 May, 2023, ISBN 978-961-94431-3-2
2. Škorić B., Terek P., Kovačević L., Terek V., Bobić Z.: Surface Modification with Ions to Improve Properties of Tools, 9. *International Scientific Conference on Advances in Mechanical Engineering - ISCAMÉ*, Debrecen: Faculty of Engineering, University of Debrecen, 9-10 November, 2023, ISBN 978-3-0364-1445-4

#### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Ilić J., Grbić T., Hadžistević M., Milutinović M., Krašnik M., Movrin D.: Deep drawing with unconventional tooling: impact of process parameters on a part accuracy, *Advanced Technologies and Materials*, 2023, Vol. 48, No. 1, pp. 27-31, ISSN 2620-0325, UDK: 621.7

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

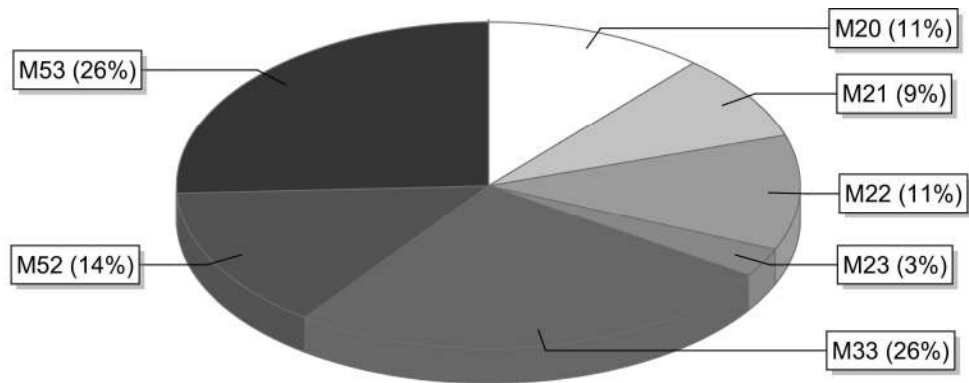
1. Bobić Z., Kovačević L., Csik A., Rodič P., Škorić B., Terek V., Terek P.: UTICAJ PVD GREŠAKA RASTA NA KOROZIONU OTPORNOST EN X2CrNiMo18-14-3 HIRURŠKOG ČELIKA SA TIN PREVLAKOM, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad, 26-27 Oktobar, 2023, pp. 140-144, ISBN 978-86-6022-610-7
2. Maksimović N., Milutinović M., Labus Zlatanović D., Baloš S.: Mikrotvrdoća i mikrostrukturalna analiza feritnog nerđajućeg čelika u deformisanom stanju, 14. *International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 65-68, ISBN 978-86-6022-618-3
3. Panić M., Movrin D., Milutinović M., Stefanović Lj.: Uticaj brzine ekstrudiranja farmaceutskog filameta na tačnost mase tableta u tehnologiji deponovanja istopljenog filameta, 14. *International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 161-164, ISBN 978-86-6022-617-6
4. Pjević M., Popović M., Milutinović M., Movrin D., Stefanović Lj.: IMPACT OF POLYMER TYPES ON APPLICABILITY IN RAPID TOOLING, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad, 26-27 Oktobar, 2023, pp. 301-306, ISBN 978-86-6022-610-7
5. Skakun (Francuski) P., Rajnović D., Janjatović P., Dramićanin M.: Experimental determination of strain state in metal forming, 14. *International Scientific Conference ETIKUM*, Novi Sad, 7-9 Decembar, 2023, pp. 109-112
6. Stefanović Lj., Movrin D., Milutinović M., Popović M., Pjević M.: INFLUENCE OF INJECTION MOLDING PROCESS PARAMETERS ON THE MECHANICAL PROPERTIES OF POLYPROPYLENE AND POLYETHYLENE PARTS, 39. *International Conference of Production Engineering - ICPE-S*, Novi Sad, 26-27 Oktobar, 2023, pp. 295-300, ISBN 978-86-6022-610-7
7. Terek V., Kovačević L., Bobić Z., Škorić B., Drnovšek A., Čekada M., Panjan P., Terek P.: HIGH TEMPERATURE TRIBOLOGICAL EVALUATION OF NANOLAYER TiAlN/TiSiN COATING DEPOSITED ON TOOL STEEL, 39. *Savetovanje proizvodnog mašinstva Srbije - SPMS*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad, 26-27 Oktobar, 2023, pp. 81-87, ISBN 978-86-6022-610-7

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Departman za mehanizaciju i konstrukciono mašinstvo

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

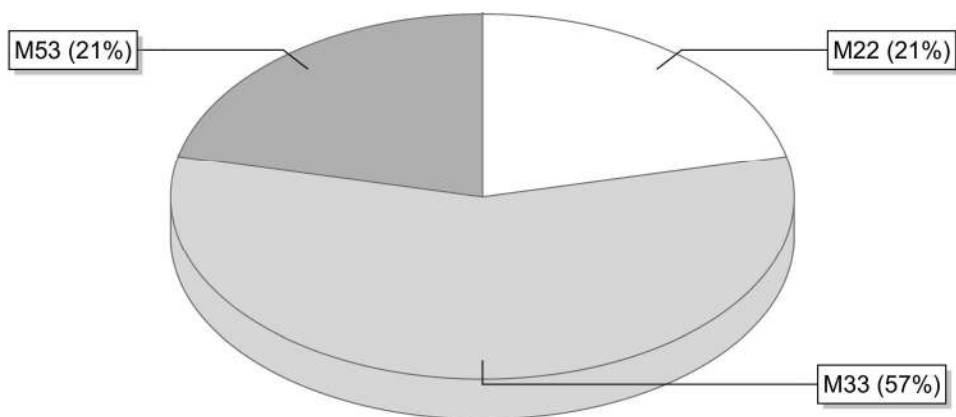
Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	4
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	4
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	9
Rad u časopisu nacionalnog značaja	M52	5
Rad u naučnom časopisu	M53	9



**GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI**  
**Katedra za mašinske konstrukcije, transportne sisteme i logistiku**

*Zbirni pregled naučno istraživačkih rezultata u 2023. godini.*

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u istaknutom međunarodnom časopisu	M22	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Rad u naučnom časopisu	M53	3



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Bojić S., Maslarić M., Mirčetić D., Nikolić S., Todorović V.: Simulation and Genetic Algorithm-based approach for multi-objective optimization of production planning: A case study in industry, *Advances in Production Engineering and Management*, 2023, Vol. 18, No. 2, pp. 250-262, ISSN 1854-6250
2. Ilanković N., Živanić D., Zuber N.: The Influence of Fatigue Loading on the Durability of the Conveyor Belt , *Applied Sciences*, 2023, Vol. 13, No. 5, ISSN 2076-3417
3. Jojić T., Vladić J., Đokić R.: Zipline mathematical model forming, experimental verification and analysis of influential parameters, *Archive of Applied Mechanics*, 2023, ISSN 0939-1533

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Ilanković N., Živanić D., Katona M.: Analysis of the Conveyor Belt Tensile Properties, *6. VI International Scientific Conference "Contemporary Trends and Innovations in the Textile Industry"*, Beograd, 14-15 September, 2023, pp. 173-180, ISBN 978-86-900426-6-1
2. Jojić T., Vladić J., Đokić R.: Determination of Zipline Tightening Weight Travell Distance, *11. International Scientific Conference - Technics. Technologies. Education. Safety.* , Borovets, 5-8 June, 2023, pp. 39-41, ISBN 2535-0315
3. Jojić T., Vladić J., Đokić R.: Measuring the kinematic characteristics on a reduced-size zipline model, *11. Heavy Machinery-HM*, Vrnjačka Banja, 21-24 June, 2023
4. Jojić T., Vladić J., Đokić R.: Selection of Zipline Cable, *16. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI* , Banja Luka, 1-2 June, 2023, pp. 327-331
5. Zelić A., Zuber N., Živanić D., Katona M., Ilanković N.: Framework And Reasonableness Of Applying The Concept Of Crane Structural Health Monitoring In Inland Water Harbours , *11. Heavy Machinery-HM*, Vrnjačka Banja: Faculty of Mechanical and Civil Engineering Kraljevo, 21-24 June, 2023
6. Živanić D., Ilanković N., Zdravković N.: Testing Of Conveyor Belts And Formation Of Verification Model Using Fem, *11. Heavy Machinery-HM*, Vrnjačka Banja: Faculty of Mechanical and Civil Engineering Kraljevo, 21-24 June, 2023
7. Živanić D., Ilanković N.: Basic Safety Measures for Chain Conveyors, *7. Politehnika* , Beograd: Akademija tehničkih strukovnih studija Beograd, 15 December, 2023, pp. 302-307, ISBN 978-86-7498-110-8
8. Živanić D., Ilanković N.: Safety Concerning Cableways, *7. Politehnika* , Beograd: Akademija tehničkih strukovnih studija Beograd, 15 December, 2023, pp. 296-301, ISBN 978-86-7498-110-8

### **Spisak rezultata M53 - Rad u naučnom časopisu**

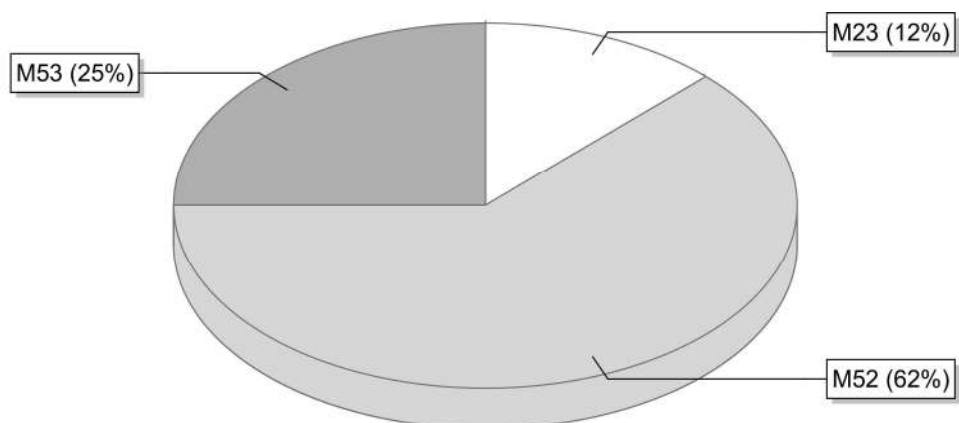
1. Karakašić M., Svalina I., Novoselović D., Samardžić I., Glavaš H., Đokić R.: Application of the Functional Flow Diagrams in a Design of the Level Crossing Hydraulic Barrier Drive, *Tehnički Glasnik - Technical Journal*, 2023, Vol. 17, No. 4, pp. 554-565, ISSN 1848-5588
2. Kucurski L., Ilanković N.: Analysis of the conveyor belt fatigue behavior using the finite element method, *Publications of the School of Engineering Sciences*, 2023, Vol. 37, No. 1, pp. 1-4, ISSN 0350-428X
3. Pinter A., Ilanković N.: Stress analysis of the modular belt conveyor construction using finite element method, *Publications of the School of Engineering Sciences*, 2023, Vol. 37, No. 1, pp. 5-8, ISSN 0350-428X

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za motore i vozila

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu	M23	1
Rad u časopisu nacionalnog značaja	M52	5
Rad u naučnom časopisu	M53	2



## PRODUKCIJA - REZULTATI

### ***Spisak rezultata M23 - Rad u međunarodnom časopisu***

1. Ružić D., Homa D., Simikić M., Vejnović S.: Comparative experimental study of microclimate conditions in farm tractor cabs, Sadhana - Academy Proceedings in Engineering Science, 2023, No. 48, pp. 1-13, ISSN 0256-2499

### ***Spisak rezultata M52 - Rad u časopisu nacionalnog značaja***

1. Galamboš S., Feher D., Dorić J., Poznanović N., Stojić B., Nikolić N.: Kinetostatic analysis of an active spoiler mechanism, Traktori i pogonske mašine, 2023, Vol. 28, No. 3/4, pp. 24-33, ISSN 0354-9496, UDK: 631.352
2. Grujic I., Stojanovic N., Dorić J.: The influence of the hydrogen injection parameters on the performance of the IC engine , Traktori i pogonske mašine, 2023, Vol. 28, No. 2, pp. 9-13, ISSN 0354-9496, UDK: 631.372
3. Grujic I., Stojanovic N., Dorić J.: The investigation of the IC engine indicating efficiency, for the IC engine work with gas fuels, Traktori i pogonske mašine, 2023, Vol. 28, No. 2, pp. 5-8, ISSN 0354-9496, UDK: 631.372
4. Nikolić N., Lukić M., Feher D., Galamboš S.: SPECIFIČNOSTI UREĐAJA ZA POBOLJŠANJE EMISIJE NO<sub>x</sub> KOD DIZEL MOTORA, Traktori i pogonske mašine, 2023, Vol. 3, No. 28, pp. 16-23, ISSN 0354-9496, UDK: 611.352
5. Stojić B., Galamboš S., Feher D., Dorić J.: Preliminary selection of brake system components for light agricultural transport vehicle prototype, Traktori i pogonske mašine, 2023, Vol. 28, No. 3/4, pp. 95-101, ISSN 0354-9496, UDK: 631.372

### ***Spisak rezultata M53 - Rad u naučnom časopisu***

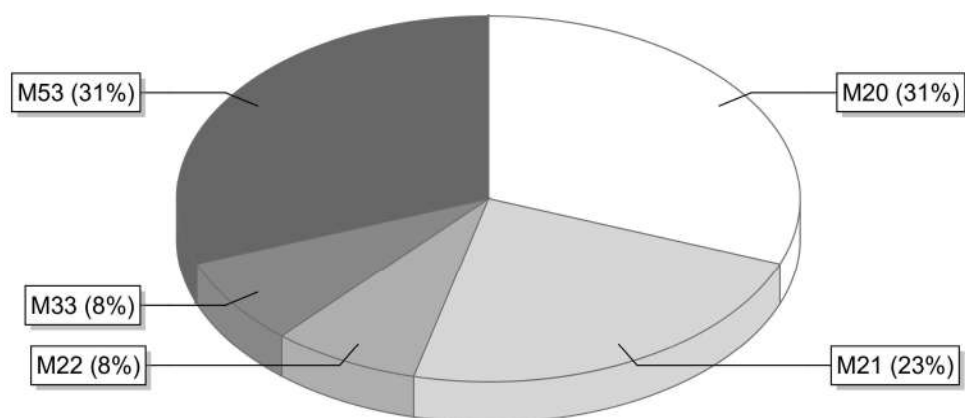
1. Ružić D., Radošević M., Simikić M., Baloš S.: Neadekvatne korektivne intervencije na poljoprivrednoj mehanizaciji ili njihov izostanak kao uzrok nezgoda, Traktori i pogonske mašine, 2023, Vol. 28, No. 3/4, pp. 41-47, ISSN 0354-9496, UDK: 621.791
2. Ružić D.: An overview of the features and activities of independent car workshops in the Republic of Serbia, Mobility and Vehicle Mechanics, 2023, Vol. 49, No. 1, pp. 1-8, ISSN 1450-5304, UDK: 629.083

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za mašinske elemente, teoriju mašina i mehanizama

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	4
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	1
Rad u naučnom časopisu	M53	4



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Zhao J., Zhou G., Zhang D., Kovačić I., Zhu R., Hu H.: Integrated design of a lightweight metastructure for broadband vibration isolation, *International Journal of Mechanical Sciences*, 2023, Vol. 244, ISSN 0020-7403
2. Kovačić I., Teofanov Lj., Kanović Ž., Zhao J., Rui Z., Rajs V.: On the influence of internal oscillators on the performance of metastructures: Modelling and tuning conditions, *Mechanical Systems and Signal Processing*, 2023, Vol. 205, pp. 1-13, ISSN 0888-3270
3. Orošnjak M., Brkljač N., Šević D., Čavić M., Oros D., Penčić M.: From predictive to energy-based maintenance paradigm: Achieving cleaner production through functional-productiveness, *Journal of Cleaner Production*, 2023, Vol. 408, No. 137177, ISSN 0959-6526
4. Zhao J., Zhou H., Yi K., Kovačić I., Zhu R.: Ultra-broad bandgap induced by hybrid hardening and softening nonlinearity in metastructure, *Nonlinear Dynamics*, 2023, Vol. 111, No. 19, pp. 17687-17707, ISSN 0924-090X

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Knežević I., Rackov M., Kanović Ž., Buljević A., Antić A., Tica M., Živković A.: An Analysis of the Influence of Surface Roughness and Clearance on the Dynamic Behavior of Deep Groove Ball Bearings Using Artificial Neural Networks, *Materials*, 2023, Vol. 16, No. 9, pp. 3529-3546, ISSN 1996-1944
2. Labus Zlatanović D., Bergmann J., Baloš S., Hildebrand J., Bojanić Šejat M., Goel S.: Effect of surface oxide layers in solid-state welding of aluminium alloys – review, *Science and Technology of Welding and Joining*, 2023, pp. 1-21, ISSN 1362-1718
3. Ristivojević M., Lučanin V., Dimić A., Mišković Ž., Burzić Z., Stamenić Z., Rackov M.: Investigation of the heavy duty truck gear drive failure, *Engineering Failure Analysis*, 2023, Vol. 144, No. 106995, pp. 1-17, ISSN 1350-6307

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Kovačić I., Kanović Ž.: Chladni plate in anechoic chamber: symmetry in vibrational and acoustic response, *Symmetry*, 2023, Vol. 15, No. 9, pp. 1-9, ISSN 2073-8994

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Oros D., Penčić M., Čavić M., Orošnjak M., Čavić D., Lu Z.: PAM Actuators Applications in Robotics: Rapid Review, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo: IEEE Xplore, New York, 5-8 June, 2023, pp. 1-6, ISBN 979-8-3503-0711-5, UDK: DOI: 10.1109/IcETRAN59631.2023.10192233

### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Liu T., Lu Z., Chen Y., Shan C., Liu Y., Zhao Y., Penčić M., Čavić M., Ilieva R., Mernik M.: Survey of CPG-Based Motion Control Methods of Hexapod Robot, *Gaojishu Tongxin/High Technology Letters*, 2023, Vol. 33, No. 7, pp. 762-771, ISSN 1002-0470, UDK: DOI: 10.3772/j.issn.1002-0470.2023.07.010
2. Lu Z., Wang Q., Penčić M., Čavić M., Ilieva R.: Design of Rehabilitation Training System of Social Helpless Shoulder Shrugging Movement for Cerebral Palsy Based on Human-Computer Interaction Technology, *Gaojishu Tongxin/High Technology Letters*, 2023, Vol. 33, No. 6, pp. 652-660, ISSN 1002-0470, UDK: DOI: 10.3772/j.issn.1002-0470.2023.06.010
3. Lu Z., Wang Q., Wang H., Shen X., Penčić M., Liu Y., Shan C., Zhao Y., Čavić M., Ilieva R., Mernik M.: Design of a BCI-Based Robot Assisted System for Facial Expression Rehabilitation of CP, *Gaojishu Tongxin/High Technology Letters*, 2023, Vol. 33, No. 4, pp. 419-427, ISSN 1002-0470, UDK: DOI: 10.3772/j.issn.1002-0470.2023.04.009
4. Wang Q., Lu Z., Shen X., Shan C., Liu Y., Chen Y., Zhao Y., Penčić M., Čavić M., Ilieva R., Mernik M.: Survey of Key HCI Technologies in Social Rehabilitation Training System for Cerebral Palsy, *Gaojishu Tongxin/High Technology Letters*, 2023, Vol. 33, No. 5, pp. 537-549, ISSN 1002-0470, UDK: DOI: 10.3772/j.issn.1002-0470.2023.05.010

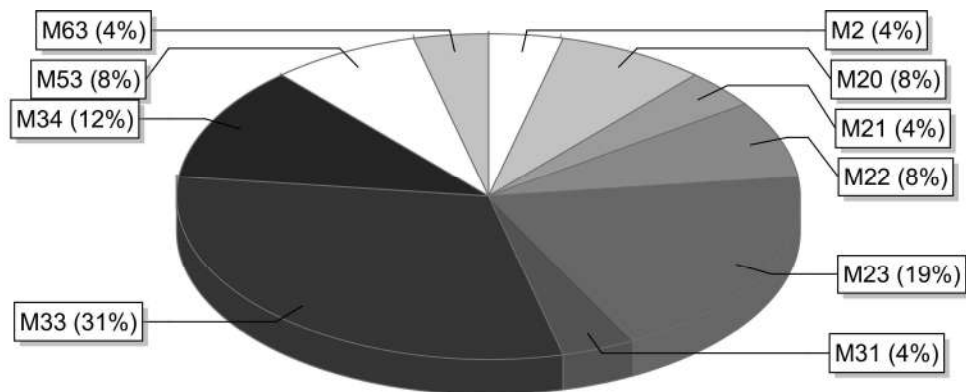


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Departman za energetiku i procesnu tehniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14	M28b	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	5
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Rad u naučnom časopisu	M53	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1

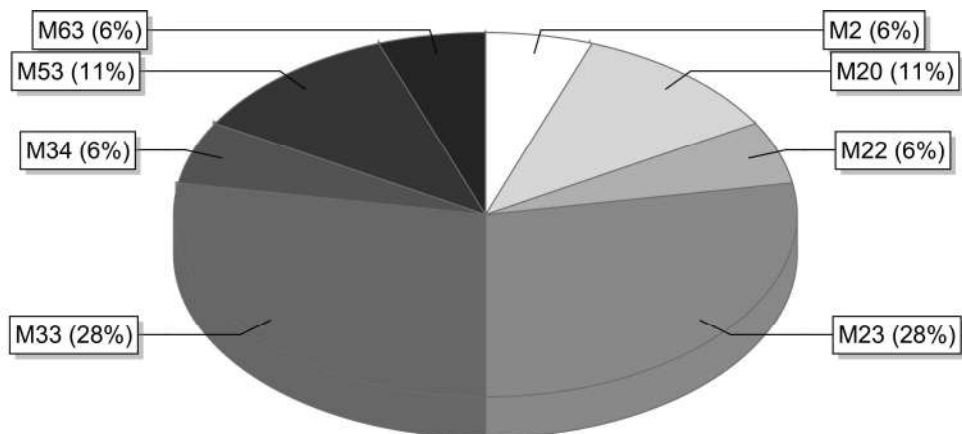


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za toplotnu tehniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14	M28b	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	5
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u naučnom časopisu	M53	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M28b - Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14**

1. Gvozdenac Urošević B.: Uređivanje sekcija: Energy Policy, Energy Planning, Energy Efficiency, Renewable Energy Sources, Thermal Science, 2023, ISSN 0354-9836

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Dubljević S., Tepavčević B., Markoski B., Anđelković A.: Computational BIM tool for automated LEED certification process, Energy and Buildings, 2023, Vol. 292, No. 113168, 1 August 2023, pp. 1-12, ISSN 0378-7788
2. Vlaović Ž., Stepanov B., Anđelković A., Rajs V., Čepić Z., Tomić M.: Mapping energy sustainability using the Kohonen self-organizing maps - Case study, Journal of Cleaner Production, 2023, ISSN 0959-6526

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Manojlović A., Medar O., Anđelković A., Tomić M.: Environmental impact assessment of the electric vehicles: A case study, Energy Sources Part A-Recovery Utilization and Environmental Effects, 2023, Vol. 45, No. 1, pp. 1007-1016, ISSN 1556-7036

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Doder Đ., Đaković D., Stepanov B., Milivojević N.: Optimization of Energy Consumption During Immersion Frying of Peanuts, Chemical Industry & Chemical Engineering Quarterly / CI&CEQ, 2023, Vol. 30, No. 2, pp. 135-142, ISSN 1451-9372
2. Miljković B.: Effect of Operating Parameters on Agricultural Biomass Mixture Pyrolysis Process in a Batch Reactor, Periodica Polytechnica Chemical Engineering, 2023, Vol. 67, No. 1, pp. 62-73, ISSN 0324-5853
3. Pilić V., Baloš D., Gvozdenac Urošević B.: Application of Innovative methodology for risk assessment and inspection methods on example of small experimental biomass gasification unit, Thermal Science, 2023, Vol. 27, No. 1, pp. 785-796, ISSN 0354-9836
4. Škundrić J., Živković P., Tica M., Tomić M., Christian B.: Investigation of air-cooled condenser's operating parameters in modern thermal power plant, Thermal Science, 2023, pp. 203-203, ISSN 0354-9836
5. Živković P., Tomić M., Ayed S., Barz C., Sever D.: Experimental and numerical investigation of Rayleigh-Benard convection in rectangular cavity with motor oil, Thermal Science, 2023, Vol. 27, No. 6A, pp. 4525-4537, ISSN 0354-9836

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Anđelković A.: COMPARISON OF TOOLS FOR SUSTAINABLE BUILDINGS` DESIGN OPTIMIZATION, 20. *International Symposium MASE*, Skoplje: MASE - Macedonian Association of Structural Engineers, 28-29 September, 2023, pp. 1231-1239, ISBN 978-608-66946-2-3
2. Babić A., Čepić Z., Radonić (Jakšić) J., Stepanov B., Andersen Z.: A simulation model of air pollutants dispersion in the Belgrade city area, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, 5-6 October, 2023, pp. 305-310, ISBN 978-86-7672-368-3
3. Dubljević S., Kićanović J., Anđelković A.: Integration of building information modeling (BIM) and virtual reality technology (VR) for daylight analysis visualization, 9. *Mongeometrija*, Novi Sad, 7-10 June, 2023, pp. 69-77, ISBN 978-86-6022-575-9
4. Dubljević S., Tepavčević B., Anđelković A.: Computational BIM method for automated insight into BREEAM credits achievement in the refurbishment evaluation process of an existing building, 8. *SpliTech - International Conference on Smart and Sustainable Technologies*, Bol, 20-23 June, 2023, ISBN 978-953-290-127-6
5. Munčan V., Mujan I., Anđelković A., Macura D.: Current trends of district heating and cooling in Europe - A review, 8. *SpliTech - International Conference on Smart and Sustainable Technologies*, Bol, 20-23 June, 2023, ISBN 978-953-290-127-6

### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Dubljević S.: Digital tools for sustainable design, 3. *DIFENEW International Student Conference*, Novi Sad: Faculty of technical sciences, Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 5 December, 2023, pp. 1-1, ISBN 978-86-6022-632-9

### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Dubljević S., Anđelković A., Višnjić R.: Automatizacija procesa analize postojećih arhitektonskih objekata u

cilju poboljšanja energetske efikasnosti upotrebom vizuelnog programiranja u BIM okruženju, *Klimatizacija Grejanje Hlađenje (KGH)*, 2023, Vol. 52, No. 1/2023, pp. 69-75, ISSN 0350-1426

2. Dubljević S., Tepavčević B., Anđelković A.: Automatizacija procesa sertifikacije postojećeg građevinskog fonda, *Klimatizacija Grejanje Hlađenje (KGH)*, 2023, Vol. 52, No. 3/2023, pp. 39-43, ISSN 0350-1426

***Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini***

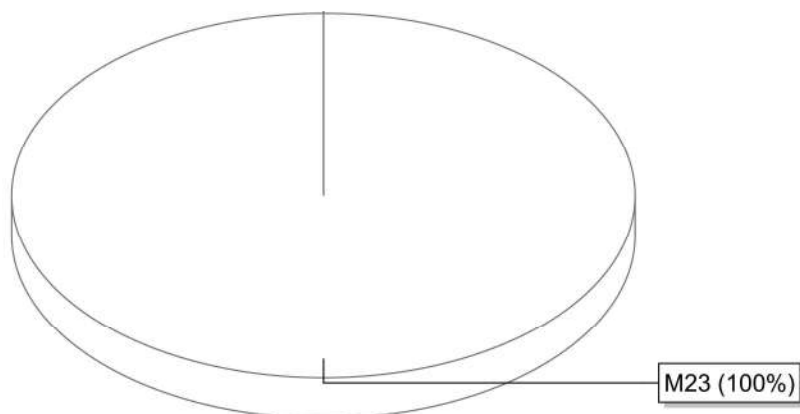
1. Gvozdencac Urošević B.: Challenges of decarbonization of the electric power sector through the electricity market analysis, *10. Elektrane - Power Plants*, Zlatibor, 8-11 Novembar, 2023

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za procesnu tehniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu	M23	1



## PRODUKCIJA - REZULTATI

### *Spisak rezultata M23 - Rad u međunarodnom časopisu*

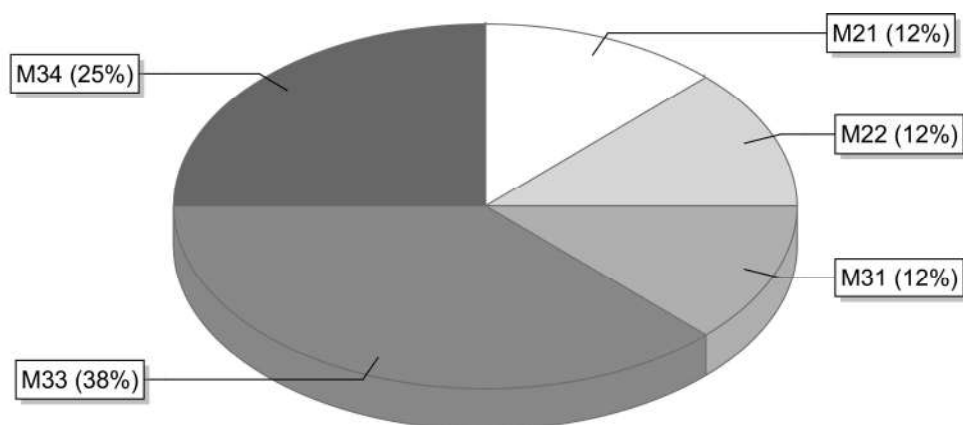
1. Doder Đ., Đaković D., Stepanov B., Milivojević N.: Optimization of Energy Consumption During Immersion Frying of Peanuts, Chemical Industry & Chemical Engineering Quarterly / CI&CEQ, 2023, Vol. 30, No. 2, pp. 135-142, ISSN 1451-9372

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za mehaniku fluida i hidropneumatske sisteme

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	3
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Burazer J., Skoko D., Bukurov M., Novković Đ., Adžić V., Lečić M., Vorotović G.: Possibility for improving the performance of a differential pneumatic comparator by inclining the measuring nozzle, *Measurement*, 2023, Vol. 208, ISSN 0263-2241

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Hmoud Almutairi J., Hasečić A., Bikić S., Džaferović E.: Analysis of shift in discharge coefficient for contaminated multihole orifice flow meter, *Flow Measurement and Instrumentation*, 2023, Vol. 94, No. 2023, ISSN 0955-5986

### **Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Bukurov M., Oluški N.: THE DEVELOPMENT OF MATHEMATICAL MODELS OF VISCOUS FLUID FLOW AND ARISING ISSUES, 13. *International Conference Industrial Engineering and Environmental Protection - IZS*, Zrenjanin: University of Novi Sad, 5-6 October, 2023, pp. 2-8, ISBN 978-86-7672-368-3, UDK: 62:005.3(082)(0.034.4) 502/504(082)(0.034.4)

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Al Afif R., Bikić S., Radojčin M.: Bioenergy conversion technologies: a case study, 8. *SUSTAINABLE POSTHARVEST AND FOOD TECHNOLOGIES- INOPTEP*, Palić: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, 23-28 April, 2023, pp. 1-4, ISBN 978-86-7520-589-0
2. Budošan D., Bikić S., Al Afif R., Baloš S., Radojčin M.: Morphology and Chemical Composition of the Black Powder Collected at the Gas Metering and Regulating Station "Jarak", 8. *SUSTAINABLE POSTHARVEST AND FOOD TECHNOLOGIES- INOPTEP*, Palić: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, 23-28 April, 2023, pp. 5-9, ISBN 978-86-7520-589-0
3. Budošan D., Branković S., Bikić S., Al Afif R.: Natural gas odor control using gas detection tubes, 8. *SUSTAINABLE POSTHARVEST AND FOOD TECHNOLOGIES- INOPTEP*, Palić: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, 23-28 April, 2023, pp. 10-13, ISBN 978-86-7520-589-0

### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Bikić S., Bubnjević Lj., Gavrilov A., Al Afif R., Radojčin M.: Check of Device for Gas Leak Detection, 8. *SUSTAINABLE POSTHARVEST AND FOOD TECHNOLOGIES- INOPTEP*, Palić: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, 23-28 April, 2023, pp. 12-13, ISBN 978-86-7520-589-0
2. Radojčin M., Bikić S., Pavkov I., Al Afif R.: Production of Carbon Nano Particles from Biomass, 8. *SUSTAINABLE POSTHARVEST AND FOOD TECHNOLOGIES- INOPTEP*, Palić: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, 23-28 April, 2023, pp. 111-112, ISBN 978-86-7520-589-0

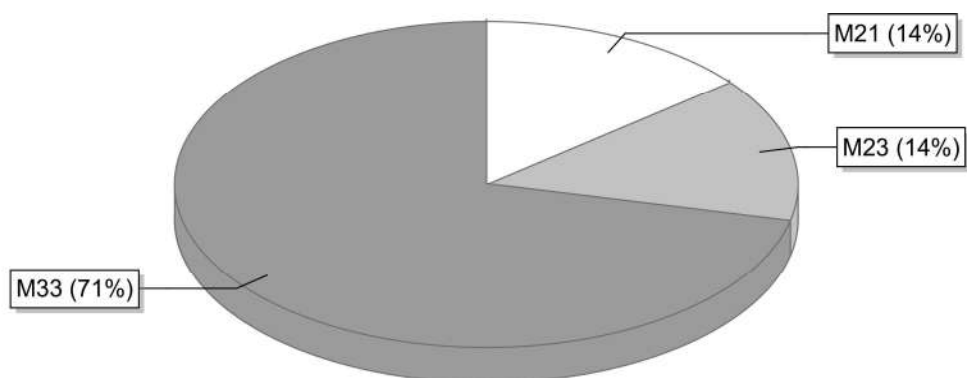


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za tehničku mehaniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	5

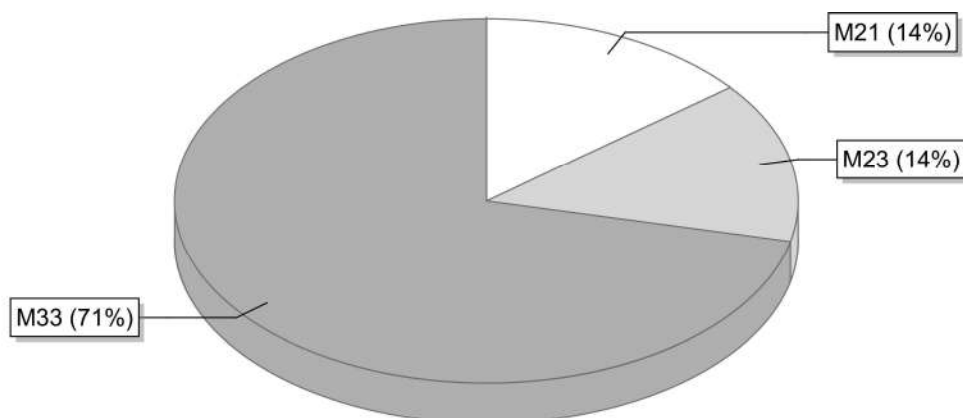


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za tehničku mehaniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	5



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Tubić (rođ. Aleksić) A., Vujić rođ. Lončarski M., Gvoić V., Agbaba J., Vasiljević S., Cvetičanin L., Vukelić Đ., Prica M.: Sorption potential of microplastics for azo- and phthalocyanine printing dyes, Article Number: 110884, *Dyes and Pigments*, 2023, Vol. 209, ISSN 0143-7208

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Duduković (Varga) N., Beljin J., Dubovina M., Zmić Tenodi K., Cvetičanin L., Zuković M., Krčmar D.: Copper removal from sediment by electrokinetic treatment with electrodes in a hexagonal configuration, *CLEAN - Soil Air Water*, 2023, ISSN 1863-0650

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

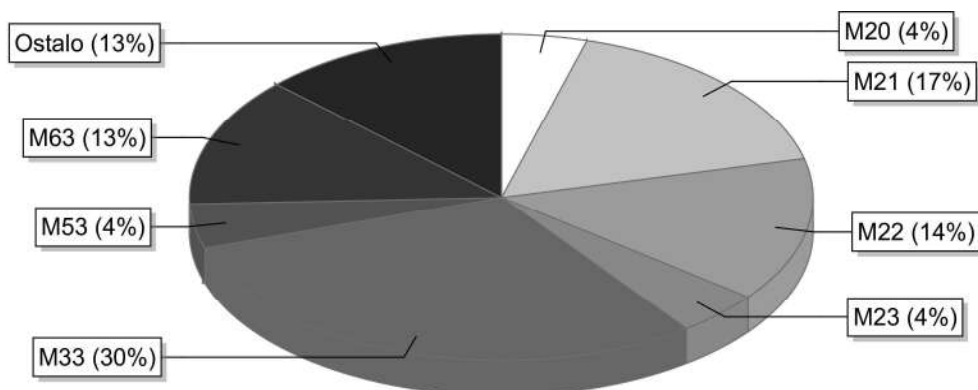
1. Jakovljević F., Žigić M., Grahovac N., Spasić D.: An Alternative for the Grünwald-Letnikov-Turner Method for Solving Set-valued Fractional Differential Equations of Motion, 9. *International Congress of Serbian Society of Mechanics*, Vrnjačka Banja: Serbian Society of Mechanics, 5-7 July, 2023
2. Janković I., Grahovac N., Žigić M.: Parameter identification of viscoelastic materials using different deformation velocities, 9. *International Congress of Serbian Society of Mechanics*, Vrnjačka Banja: Serbian Society of Mechanics, 5-7 July, 2023
3. Spasić D., Mikulić Gutman S.: How Can We Recognize Early Osteoarthritis by In-Vivo Examination?, 7. *International Conference on Fractional Differentiation and its Applications: ICFDA*, Ajman: IEEE, 14-16 March, 2023, UDK: <https://ieeexplore.ieee.org/document/10153188>, INSPEC Accession Number: 23321510
4. Spasić D.: Forced Vibrations with Burgers Type of Damping, 9. *International Congress of Serbian Society of Mechanics*, Vrnjačka Banja: Serbian Society of Mechanics, 5-7 July, 2023
5. Žigić M.: The application of inertial measurement units (IMUs) in biomechanics and robotics, 14. *International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department of Production Engineering, 7-9 December, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Departman za energetiku, elektroniku i telekomunikacije

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14	M28b	2
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	9
Rad u vrhunskom međunarodnom časopisu	M21	34
Rad u istaknutom međunarodnom časopisu	M22	29
Rad u međunarodnom časopisu	M23	9
Uređivanje istaknutog međunarodnog naučnog časopisa na godišnjem nivou(gost urednik)	M27	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	4
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	61
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Rad u časopisu nacionalnog značaja	M52	3
Rad u naučnom časopisu	M53	9
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	26
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	2
Odbranjena doktorska disertacija	M71	1
Novi proizvod ili tehnologija uvedeni u proizvodnju - međunarodni nivo	M81	1
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	1
Registrovan patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo na međunarodnom nivou	M91	1
Registrovan patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	2

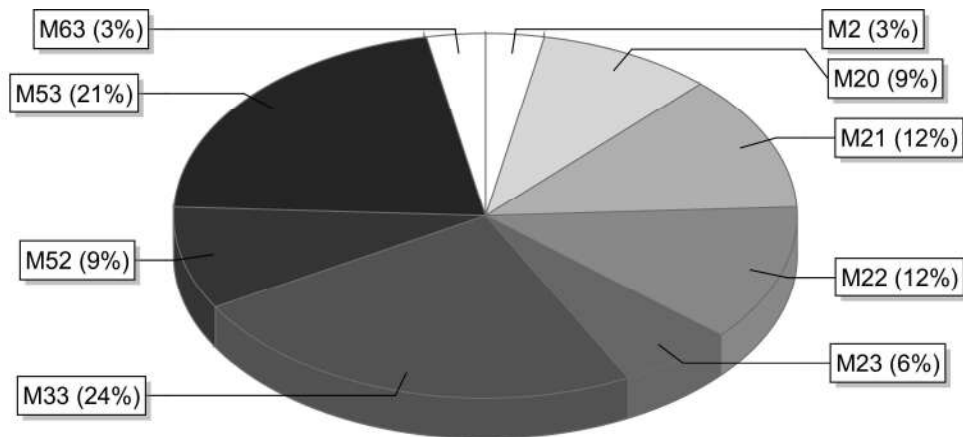


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za elektroenergetiku i primenjeni softverski inženjering

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14	M28b	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	4
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Rad u časopisu nacionalnog značaja	M52	3
Rad u naučnom časopisu	M53	7
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M28b - Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14**

1. Strezoski L.: Guest Editor, Special Issue "Advances in Power and Energy Management for Distribution Systems with High Penetration of Distributed Energy Resources", *Energies*, 2023, ISSN 1996-1073

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Kovačev N., Gavrić M., Lendak I.: Algorithm for visualizing substation areas in electric power systems, *Expert Systems with Applications*, 2023, Vol. 212, ISSN 0957-4174
2. Vojnović N., Vidaković J., Vidaković M.: Multi-Threaded Power Flow of Large-Scale Active Multiphase Distribution Networks, *Expert Systems with Applications*, 2023, Vol. 227, No. 120313, pp. 1-15, ISSN 0957-4174
3. Zorica D., Cvetičanin S.: Dissipative and generative fractional RLC circuits in the transient regime, *Applied Mathematics and Computation*, 2023, Vol. 459, No. 128227, pp. 1-31, ISSN 0096-3003

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Popović Ž., Knežević S.: Dynamic reconfiguration of distribution networks considering hosting capacity: A risk-based approach, *IEEE Transaction on Power Systems*, 2023, Vol. 38, No. 4, pp. 3440-3450
2. Popović Ž., Milošević N., Kovački N.: A multi-period multi-criteria replacement and rejuvenation planning of underground cables in urban distribution networks, *International Journal of Electrical Power and Energy Systems*, 2023, Vol. 149, No. 109018, pp. 1-9, ISSN 0142-0615
3. Strezoski L., Simić N.: Quantifying the Impact of Inverter-Based Distributed Energy Resource Modeling on Calculated Fault Current Flow in Microgrids, *International Journal of Electrical Power & Energy Systems*, 2023, Vol. 151, No. 109161, pp. 1-12, ISSN 0142-0615
4. Vojnović N., Vidaković J., Vidaković M.: Decoupled load flow for large-scale multiphase distribution networks, *Sustainable Energy, Grids and Networks*, 2023, Vol. 34, No. 101049, pp. 1-15, ISSN 2352-4677

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Ilić D., Vučenović S., Šetrajčić-Tomić A., Vojnović N., Vojnović N., Ilić D., Šetrajčić J.: Exact definition of optical phenomena and characteristics of ultrathin crystalline molecular films, *Modern Physics Letters B*, 2023, Vol. 37, No. 24, pp. 1-16, ISSN 0217-9849
2. Pompodakis E., Strezoski L., Simić N., Paspatis A., Alexiadis M., Tsikalakis A., Katsigiannis Y., Karapidakis E.: Short-Circuit Calculation of Droop-Controlled Islanded AC Microgrids with Virtual Impedance Current Limiters, *Electric Power System Research*, 2023, Vol. 2018, No. 109184, pp. 1-15, ISSN 0378-7796
3. Sajadi A., Strezoski L.: 2022 IEEE/PES Innovative Smart Grid Technologies Europe, *IEEE Electrification Magazine*, 2023, Vol. 11, No. 1, pp. 85-89, ISSN 2325-5889
4. Strezoski L.: Distributed energy resource management systems—DERMS: State of the art and how to move forward, *Wiley Interdisciplinary Reviews: Energy and Environment*, 2023, Vol. 12, No. 1, pp. 1-21, ISSN 2041-8396

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Marjanović J., Dalčeković N., Sladić G.: Blockchain-based model for tracking compliance with security requirements, *Computer Science and Information Systems*, 2023, Vol. 20, No. 1, pp. 359-380, ISSN 1820-0214
2. Stanojević M., Čapko D., Lendak I., Stoja S., Jelačić B.: Fighting Insider Threats, with Zero-Trust in Microservice-based, Smart Grid OT Systems, *Acta Polytechnica Hungarica, Journal of Applied Sciences*, 2023, Vol. 20, No. 6, pp. 229-248, ISSN 1785-8860

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Čapko D., Mitrović A., Dalčeković M., Vukmirović S., Nedić N.: Cross-chain General Message Passing Protocol via Eternal Bridge, *31. Telekomunikacioni forum TELFOR*, Beograd, 21-22 November, 2023
2. Lendak I., Danidou Y., Ricci S., Skarmeta A., Zanero S., Hošek J.: Job Adverts Analyzer for Cybersecurity Skills Needs Evaluation, *18. International Conference on Availability, Reliability and Security (ARES)*, Benevento: ACM, 29-1 August, 2023
3. Lendak I., Popović R., Živanović M.: Dynamic Cybersecurity Curriculum Optimization Method (DyCSCOM), *18. International Conference on Availability, Reliability and Security (ARES)*, Benevento: ACM, 29-1 August, 2023, pp. 1-9

4. Lendak I.: A semi-supervised framework for anomaly detection and data labeling for industrial control systems, 13. *International conference on information society and technology*, Kopaonik, 12-15 March, 2023
5. Popović Ž., Kovački N., Obrenić M., Brbaklić B.: Hosting capacity improvement in low voltage distribution networks: a risk-based approach, 27. *CIREC - International Conference on Electricity Distribution*, Rim: 27th International Conference on Electricity Distribution (CIREC 2023), 12-15 June, 2023, pp. 21-25, ISBN 978-1-83953-855-1
6. Strezoski L., Milović (Babić) Z., Milojević D.: Cyber Physical Security of Distributed Energy Resources, 38. *Energetika*, Zlatibor, 12-15 September, 2023
7. Strezoski L.: Integration of Mass Amounts of Electric Vehicles Into Electrical Power Systems, 9. *Towards a humane city*, Novi Sad, 19-20 October, 2023
8. Strezoski L.: SYSTEMS FOR MANAGEMENT OF DISTRIBUTED ENERGY RESOURCES - DERMS, 38. *Energetika*, Zlatibor, 12-15 September, 2023

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Sekulić J., Lendak I.: An Overview of Cyber Insurance Field: Cyber Insurance as a Risk Management Strategy, *Journal of Mechatronics, Automation and Identification Technology – JMAIT*, 2023, Vol. 8, No. 2, pp. 13-17, ISSN 2466-3603
2. Strezoski L., Milović (Babić) Z., Milojević D.: Cyber Physical Security of Distributed Energy Resources, *Energija, Ekonomija, Ekologija*, 2023, Vol. 4, No. 25, pp. 1-9, ISSN 0354-8651
3. Strezoski L.: Sistemi za upravljanje distribuiranim energetske resursima: stanje u oblasti, *Energija, Ekonomija, Ekologija*, 2023, Vol. 3, No. 25, pp. 24-29, ISSN 0354-8651

**Spisak rezultata M53 - Rad u naučnom časopisu**

1. Kojić O., Kovački N.: Više-periodna rekonfiguracija distributivne mreže primenom dinamičkog programiranja, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 3, pp. 419-422, ISSN 0350-428X, UDK: 621.31
2. Košutić I., Strezoski L.: OPTIMIZACIJA NAPONA I SNAGA UNUTAR MIKROMREŽE, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 12, pp. 1671-1674, ISSN 0350-428X
3. Krsman V., Čuk I.: PRIMENA AMI, DR I DERMS TEHNOLOGIJA PAMETNIH DISTRIBUTIVNIH MREŽA U REŠAVANJU PROBLEMA NEDOSTATKA SNAGE I ENERGIJE U USLOVIMA ENERGETSKE KRIZE, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 7, pp. 879-882, ISSN 0350-428X
4. Krsman V., Stojanović M.: ENERGETSKA KRIZA KAO POVOD DECENTRALIZACIJE ELEKTROENERGETSKOG SISTEMA, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 7, pp. 887-890, ISSN 0350-428X
5. Lazarević D., Strezoski L.: RAZLIKA STRUJE KRATKOG SPOJA U ZAVISNOSTI OD REŽIMA RADA MIKROMREŽE, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 9, pp. 1161-1164, ISSN 0350-428X
6. Markov G., Strezoski L.: MIKROMREŽA KAO RESURS ZA OPTIMIZACIJU NAPONA I SNAGA NA DISTRIBUTIVNOM IZVODU, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 12, pp. 1663-1666, ISSN 0350-428X
7. Spasić A., Strezoski L.: VERIFIKACIJA PRORAČUNA ZA DETEKCIJU I IDENTIFIKACIJU LOŠIH TELEMETRISANIH MERENJA U PRENOSNO-PROIZVODNIM MREŽAMA, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 9, pp. 1109-1112, ISSN 0350-428X

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

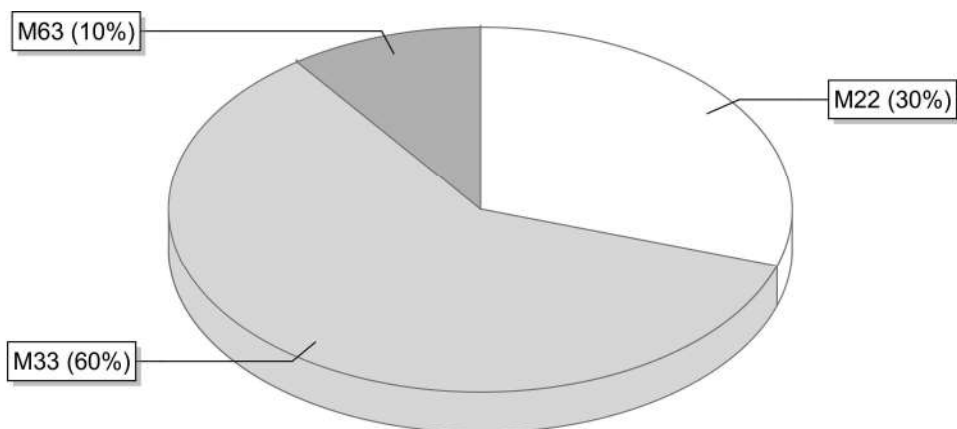
1. Sekulić J., Lendak I.: Pregled oblasti sajber osiguranja: Sajber osiguranje kao tehnika upravljanja rizikom, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 Mart, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za energetska elektroniku i pretvarače

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u istaknutom međunarodnom časopisu	M22	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	6
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1





## PRODUKCIJA - REZULTATI

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Grabić S., Vekić M., Rapaić M., Todorović I., Porobić V.: Peer-to-Peer-Based Power Flow Control in Microgrids With Limited Voltage Harmonic Distortion, *IEEE Access*, 2023, Vol. 11, pp. 99999-99999, ISSN 2169-3536
2. Milićević D., Vukajlović N., Hajdarpašić A., Popadić B., Dumnić B., Čorba Z., Porobić V.: Electric Power Flow Control in Double Three-Phase Machines without Shift between Magnetic Axes, *Machines*, 2023, Vol. 11, No. 10, pp. 1-16, ISSN 2075-1702
3. Todorović I., Todorović I., Reljić D., Jerkan D., Dujić D.: Mitigation of Voltage and Frequency Excursions in Low-Inertia Microgrids, *IEEE Access*, 2023, Vol. 11, pp. 9351-9367, ISSN 2169-3536

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Banović M., Iričanin B., Reljić D., Jerkan D.: Hybrid Iron Loss Model for IPMSMs in Wide-Speed Range Applications, *22. International Symposium POWER ELECTRONICS Ee*, Novi Sad: IEEE, 25-28 October, 2023, pp. 1-6, ISBN 979-8-3503-4317-5
2. Brestovački L., Stanisavljević A., Vasiljević-Toskić M., Turović R., Katić V.: Test Bench for Evaluation of Machine Learning Algorithms Applied to PQ Parameters Classification, *22. International Symposium POWER ELECTRONICS Ee*, Novi Sad, 25-28 October, 2023, ISBN 979-8-3503-4317-5
3. Jarić M., Popović V., Vučković M., Marčetić D., Jerkan D.: Comparison of Optimal Control Trajectories of IPMSMs with Different Saliency Ratios, *22. International Symposium POWER ELECTRONICS Ee*, Novi Sad, 25-28 October, 2023, ISBN 979-8-3503-4317-5
4. Šaš M., Vukajlović N., Medić S., Pejić D.: Korišćenje integrišućeg analogno-digitalnog konvertora za karakterizaciju superkondenzatora u uslovima visokog prisustva šuma, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 June, 2023, pp. 1-4, ISBN 978-86-7466-969-3
5. Todorović I., Rapaić M., Vekić M., Todorović I.: Decentralized Goal Function-Based Control of DGSs in Microgrid Applications, *15. IEEE PowerTECH Conference*, Beograd: IEEE, 25-29 June, 2023
6. Vekić M., Todorović I., Rapaić M., Todorović I., Grabić S., Bašić M.: Secondary and Primary Goal-Function-Based Control in Inverter-Interfaced Microgrids, *22. International Symposium POWER ELECTRONICS Ee*, Novi Sad: IEEE, 25-28 October, 2023

### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

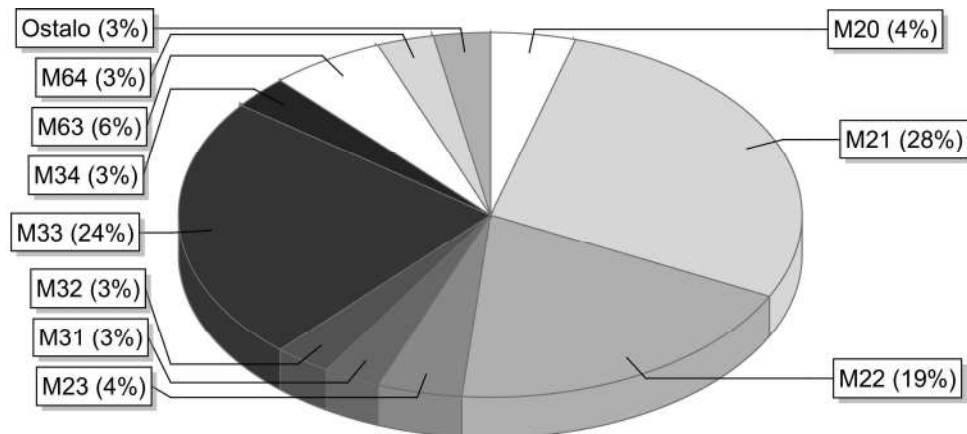
1. Milićević D., Dumnić B., Vukajlović N., Popadić B., Hajdarpašić A.: MASTER STRUKOVNE STUDIJE IZ OBLASTI ELEKTROTEHNIKE NA FTN-u – ISKUSTVO I PERSPEKTIVE ZA DUALNI RAZVOJ – DEO 1, XXIX Skup TRENDOVI RAZVOJA: "UNIVERZITET PRED NOVIM IZAZOVIMA", 2023, pp. 13-16, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 13-16, ISBN 978-86-6022-554-4

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za elektroniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	19
Rad u istaknutom međunarodnom časopisu	M22	13
Rad u međunarodnom časopisu	M23	3
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	16
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	4
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	2
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M13 - Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja**

1. Medojević M., Vasiljević-Toskić M.: Implementation of Deep Learning to Prevent Peak-Driven Power Outages Within Manufacturing Systems, Springer Cham, 2023, str. 29-44, ISBN 978-3-031-29716-8

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Erceg T., Vukić (Skerlić) N., Šovljanski O., Teofilović V., Porobić S., Baloš S., Kojić S., Terek P., Banjanin B., Rakić S.: Preparation and characterization of biodegradable cellulose acetate-based films with novel plasticizer obtained by polyethylene terephthalate glycolysis intended for active packaging, Cellulose, 2023, ISSN 0969-0239
2. Kovačić I., Teofanov Lj., Kanović Ž., Zhao J., Rui Z., Rajs V.: On the influence of internal oscillators on the performance of metastructures: Modelling and tuning conditions, Mechanical Systems and Signal Processing, 2023, Vol. 205, pp. 1-13, ISSN 0888-3270
3. Vlaović Ž., Stepanov B., Anđelković A., Rajs V., Čepić Z., Tomić M.: Mapping energy sustainability using the Kohonen self-organizing maps - Case study, Journal of Cleaner Production, 2023, ISSN 0959-6526

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Aslam Khan M., Aslam M., Bin Abdullah M., Hasan A., A. Shah S., Stojanović G.: Recent perspective of polymeric biomaterial in tissue engineering—a review, Materials Today Chemistry, 2023, Vol. 34, No. 101818, pp. 1-19, ISSN 2468-5194
2. Bodić M., Aleksić S., Rajs V., Damnjanović M., Kisić M.: Thermally Coupled Thick-Film Thermistors: Main Properties and Applications, IEEE Sensors Journal, 2023, Vol. 23, No. 18, pp. 21010-21017, ISSN 1530-437X
3. Čajko K., Sekulić D., Yatskiv R., Vaniš J., Lukić-Petrović S.: Impact of Ag concentration in As-S-Se chalcogenide on physical, topological and resistive switching properties, Journal of Non-crystalline Solids, 2023, Vol. 622, No. 122663, pp. 1-11, ISSN 0022-3093
4. Kojić T., Simić M., Vučinić-Vasić M., Stojanović G.: Sensing system based on knitted electrodes for fruit quality evaluation, Journal of Food Engineering, 2023, Vol. 353, pp. 1-9, ISSN 0260-8774
5. Kovacevic B., Raj Wagle S., Mihaela Ionescu C., Jones M., Lewkowicz M., YM Wong E., Kojić S., Stojanović G., Đanić (Stojančević) M., Mikov M., Mooranian A., Al-Salami H.: Novel hydrogel comprising non-ionic copolymer with various concentrations of pharmacologically active bile acids for cellular injectable gel, Colloids and surfaces B: Biointerfaces, 2023, Vol. 222, pp. 1-11, ISSN 0927-7765
6. Luca F., Sinha A., Seddaoui N., di Biasio J., Ricci F., Stojanović G., Arduini F.: Paper card-like electrochemical platform as a smart point-of-care device for reagent-free glucose measurement in tears, Chemical Communications, 2023, Vol. 59, No. 29, pp. 4300-4303, ISSN 1359-7345
7. Nasrin R., Lazouskaya M., Danilov (Pajčin) I., Petrović B., Grahovac (Ranković) J., Simić M., Willander M., Nur O., Stojanović G.: Monitoring the effect of pH on the growth of pathogenic bacteria using electrical impedance spectroscopy, Results in Engineering, 2023, Vol. 20, No. 101425, pp. 1-9, ISSN 2590-1230
8. Petrović B., Kojić S., Milić L., Luzio A., Perić T., Marković E., Stojanović G.: Toothpaste ingestion-evaluating the problem and ensuring safety: systematic review and meta-analysis, Frontiers in Public Health, 2023, Vol. 11, pp. 1-12, ISSN 2296-2565
9. Popović Ž., Thiha A., Ibrahim F., Petrović B., Dahlan N., Milić L., Kojić S., Stojanović G.: Oral micro-electronic platform for temperature and humidity monitoring, Scientific Reports, 2023, Vol. 13, No. 21277, pp. 1-12, ISSN 2045-2322
10. Popović Ž.: Oral micro-electronic platform for temperature and humidity monitoring, Scientific Reports, 2023, ISSN 2045-2322
11. Sekulić D., Ivetić T.: Characterization of an Impedance-Type Humidity Sensor Based on Porous SnO<sub>2</sub>/TiO<sub>2</sub> Composite Ceramics Modified with Molybdenum and Zinc, Sensors, 2023, Vol. 23, No. 19, pp. 8261-8276, ISSN 1424-8220
12. Simić M., Freeborn T., Šekara T., Stavrakis A., Jeoti V., Stojanović G.: A Novel Method for In-Situ Extracting Bio-Impedance Model Parameters Optimized for Embedded Hardware, Scientific Reports, 2023, Vol. 13, ISSN 2045-2322
13. Simić M., Freeborn T., Veletić M., Seoane F., Stojanović G.: Parameter Estimation of the Single-Dispersion Fractional Cole-Impedance Model with the Embedded Hardware, IEEE Sensors Journal, 2023, ISSN 1530-

14. Simić M., K. Stavrakis A., Kojić T., Jeoti V., Stojanović G.: Parameter Estimation of the Randles Equivalent Electrical Circuit Using Only Real Part of the Impedance, *IEEE Sensors Journal*, 2023, Vol. 23, No. 5, pp. 4922-4929, ISSN 1530-437X
15. Simić M., K. Stavrakis A., Radovanović M., Iqbal A., Jeoti V., Stojanović G.: A Portable Device for Passive LC Sensors Readout with Low-Coupling Enhanced Sensitivity, *IEEE Transactions on Instrumentation and Measurement*, 2023, Vol. 72, pp. 1-12, ISSN 0018-9456
16. Simić M., Stavrakis A., Milić L., Vučinić-Vasić M., Stojanović G.: Textile-based heating system for safe localized warts treatment, *Journal of Science: Advanced Materials and Devices*, 2023, ISSN 2468-2179
17. Stojanović G., Radovanović M., Kojić S., Milić L., Simić M., Kojić T., Georges Duval R., Vukmirović J., Petrović B.: Temperature sensors manufactured from edible materials intended for oral cavity operation, *International Journal of Precision Engineering and Manufacturing-Green Technology*, 2023, ISSN 2198-0810
18. Vasiljević-Toskić M., Bajić J., Manojlović L., Đonlagić D.: A simple fiber optic sensing system based on dual Sagnac interferometer for disturbance location detection, *Optics and Laser Technology*, 2023, Vol. 170, ISSN 0030-3992
19. Zafar H., Vučinić-Vasić M., Popović Ž., Babković K., Stojanović G.: Influence of stitch type division and geometry on the electrical properties of conductive embroidered structures, *Journal of Industrial Textiles*, 2023, Vol. 53, ISSN 1530-8057

**Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Aslam Khan M., Stojanović G., Hassan R., Sahaya Anand T., Al-Ejji M., Anwarul H.: Role of Graphene Oxide in Bacterial Cellulose–Gelatin Hydrogels for Wound Dressing Applications, *ACS Omega*, 2023, Vol. 2023, No. 8, pp. 15909-15919, ISSN 2470-1343
2. Babković K., Kisić M., Damjanović M.: 3D Printed Inductive Displacement/Force Sensor, *IEEE Transactions on Magnetics*, 2023, Vol. 59, No. 2, pp. 1-5, ISSN 0018-9464
3. Bodić M., Rajs V., Vasiljević-Toskić M., Bajić J., Batinić B., Arbanas M.: Methods of Measuring Air Pollution in Cities and Correlation of Air Pollutant Concentrations, *Processes*, 2023, Vol. 10, No. 11, pp. 2984-2990, ISSN 2227-9717
4. Čajko K., Sekulić D., Lukić-Petrović S.: Dielectric and bipolar resistive switching properties of Ag doped As-S-Se chalcogenide for non-volatile memory applications, *Materials Chemistry and Physics*, 2023, Vol. 296, No. 127301, pp. 1-10, ISSN 0254-0584
5. Iqbal A., Driberg M., Jeoti V., Abd Aziz A., Stojanović G., Simić M., Hussain N.: Advancing Multiband OFDM Channel Sounding: An Iterative Time Domain Estimation for Spectrally Constrained Systems, *IEEE Access*, 2023, Vol. 11, pp. 99999-99999, ISSN 2169-3536
6. Kisić M., Babković K., Damjanović M.: Wireless Inductive Displacement Sensor 3-D Printed Using Additive Technology, *IEEE Transactions on Magnetics*, 2023, Vol. 59, No. 11, pp. 1-6, ISSN 0018-9464
7. Kundačina (Podunavac) I., Đočoš M., Vejinić M., Birgermajer S., Pavlović Z., Kojić S., Petrović B., Radonić V.: 3D-Printed Microfluidic Chip for Real-Time Glucose Monitoring in Liquid Analytes, *Micromachines*, 2023, Vol. 14, No. 3, pp. 1-12, ISSN 2072-666X
8. Protić D., Stanković M., Prodanović R., Vulić I., Stojanović G., Simić M., Ostojić G., Stankovski S.: Numerical Feature Selection and Hyperbolic Tangent Feature Scaling in Machine Learning-Based Detection of Anomalies in the Computer Network Behavior (<https://doi.org/10.3390/electronics12194158>), *Electronics (Basel)*, 2023, Vol. 12, No. 19, pp. 1-20, ISSN 2079-9292
9. Sarang S., Stojanović G., Driberg M., Stankovski S., Bingi K., Jeoti V.: Machine Learning Prediction based Adaptive Duty Cycle MAC Protocol for Solar Energy Harvesting Wireless Sensor Networks, *IEEE Access*, 2023, pp. 17536-17554, ISSN 2169-3536
10. Sinha A., K. Stavrakis A., Simić M., Stojanović G.: Wearable humidity sensor embroidered on a commercial face mask and its electrical properties, *Journal of Materials Science*, 2023, Vol. 58, pp. 1680-1693, ISSN 0022-2461
11. Thiha A., Ibrahim F., Joseph K., Petrović B., Kojić S., Dahlan N., Jamaluddin N., Qureshi S., Stojanović G.: A Novel Microfluidic Compact Disc to Investigate Electrochemical Property Changes Between Artificial and Real Salivary Samples Mixed with Mouthwashes Using Electrical Impedance Analysis, *PLOS ONE*, 2023, Vol. 18, No. 2, pp. 1-19, ISSN 1932-6203

12. Volpes G., Valenti S., Zafar H., Pernice R., Stojanović G.: Feasibility of conductive embroidered threads for I2C sensors in microcontroller-based wearable electronics, *Flexible and Printed Electronics*, 2023, Vol. 8, No. 015016, pp. 1-9, ISSN 2058-8585
13. Vrbaški V., Jošić S., Vranjković V., Teodorović P., Struharik R.: Puppis: Hardware Accelerator of Single-Shot Multibox Detectors for Edge-Based Applications, *Electronics (Basel)*, 2023, Vol. 12, No. 22, pp. 1-19, ISSN 2079-9292

**Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Samardžić S., Mihailović A., Adamović (Majkić) S., Adamović D., Banjanin B., Rajs V., Lakatoš R.: Noise and lighting as physical stressors in a printing laboratory - A case study, *Environmental Engineering and Management Journal*, 2023, Vol. 22, No. 3, pp. 595-606, ISSN 1582-9596
2. Simić M., Stojanović G.: Parameter Estimation of 2R-1C Circuit using Embedded Hardware and Measured Impedance Modulus, *Journal of Circuits Systems and Computers*, 2023, Vol. 32, No. 15, ISSN 0218-1266
3. Šunjević M., Reba D., Rajs V., Vujić (Francuski) B., Ninkov M., Vojinović-Miloradov M.: Assessment of detected in situ and modeled PM10/2.5 concentration levels during the urban transformation process in Novi Sad, Serbia, *Thermal Science*, 2023, Vol. 27, No. 3B, pp. 2275-2286, ISSN 0354-9836

**Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Gojić G., Vinčan V., Kundačina O., Mišković D., Dragan D.: Non-adversarial Robustness of Deep Learning Methods for Computer Vision, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 June, 2023
2. Simić M., Radovanović M.: Measurement Methods, Instrumentation and Data Processing for Textile and Flexible Sensors, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 June, 2023

**Spisak rezultata M32 - Predavanje po pozivu sa međunarodnog skupa štampano u izvodu**

1. Čajko K., Sekulić D., Lukić-Petrović S.: Chalcogenide glasses as memristive materials, *11. Advanced Ceramics and Application*, Beograd: Serbian Ceramic Society, 18-20 September, 2023, ISBN 978-86-905714-0-6
2. Sekulić D., Raonić R., Ivetić T.: Electrical and humidity sensing properties of LNTO ceramics with ZnO as functional additive, *11. Advanced Ceramics and Application*, Beograd: Serbian Ceramic Society, 18-20 September, 2023, pp. 37-38, ISBN 978-86-905714-0-6

**Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Adamov L., Petrović N., Putnik I., Đočoš M., Petrović B., Vejin M., Kojić S.: Automated dental age assessment with Chamberiere's third molar index: A precision approach and future development, *14. International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department of production engineering, Chair of metrology, quality, fixtures, tools and ecological engineering aspects, 7-9 December, 2023, pp. 133-136, ISBN 978-86-6022-617-6
2. Brestovački L., Rajs V.: Edukativni primer korišćenja internet komunikacionih protokola i platformi baziranih na M2M elektronskim sistemima, *22. International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 March, 2023, ISBN 978-99976-996-1-9
3. Brestovački L., Stanisavljević A., Vasiljević-Toskić M., Turović R., Katić V.: Test Bench for Evaluation of Machine Learning Algorithms Applied to PQ Parameters Classification, *22. International Symposium POWER ELECTRONICS Ee*, Novi Sad, 25-28 October, 2023, ISBN 979-8-3503-4317-5
4. Čajko K., Sekulić D., Nikolić M., Lukić-Petrović S.: Electrical Characteristics of Chalcogenide Doped with Silver as Active Layer in Memristive Devices, *33. International Conference on Microelectronics (MIEL)*, Niš: Electron Devices Society of the INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC, 16-18 October, 2023, pp. 59-62, ISBN 979-8-3503-4775-3
5. Damjanović M., Babković K., Kisić M.: EMI and EMC in Electronics Course at the FTS, University of Novi Sad, *22. International Symposium POWER ELECTRONICS Ee*, Novi Sad: Fakultet tehničkih nauka, Univerzitet u Novom sadu, 25-28 October, 2023, pp. 1-6, ISBN 979-8-3503-4318-2
6. Dimitrić D., Simić M., Risojević V.: Nearest Neighbor Based Out-of-Distribution Detection in Remote Sensing Scene Classification, *22. International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 March, 2023, ISBN 978-1-6654-7546-4
7. Keser T., Obrovski B., Mihajlović I., Vojinović-Miloradov M., Sremački M., Brkić M.: SURFACE WATER-QUALITY MONITORING OF TWO WETLAND ECO-SYSTEMS IN CROSS BORDER PROTECTED AREAS, *1. FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Tecnical

Sciences, University of Novi Sad, 12-15 September, 2023, pp. 93-97, ISBN 978-86-6022-621-3

8. Medojević M., Vasiljević-Toskić M., Čulibrk D., Šolić P., Perković T., Medojević M.: Design and development of an IoT learning system for health-related applications, 8. *SpliTech - International Conference on Smart and Sustainable Technologies*, Bol: IEEE, 20-23 June, 2023, pp. 1-5, ISBN 978-953-290-128-3
9. Nikolić K., Radić J., Nikolić K.: A 0.636 mW 8-bit 90 kS/s SAR ADC in 130 nm CMOS Process, 16. *TELSIKS - International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, Niš: IEEE, 25-27 October, 2023, pp. 50-53, ISBN 979-8-3503-4702-9
10. Putnik I., Petrović N., Adamov L., Vejin M., Miroslav Đ., Movrin D., Kojić S.: SLA printed microfluidic chips: Printing orientation influence on printing quality, 14. *International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department of production engineering, Chair of metrology, quality, fixtures, tools and ecological engineering aspects, 7-9 December, 2023, pp. 169-172, ISBN 978-86-6022-387-8
11. Radić J., Nikolić K.: A 0.636 mW 8-bit 90 kS/s SAR ADC in 130 nm CMOS Process, 16. *TELSIKS - International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, Niš: IEEE, 25-27 October, 2023, pp. 50-53, ISBN 979-8-3503-4702-9
12. Radovanović M., Krnić K., Simić M., Stojanović G.: Edible electronics components for biomedical applications, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 March, 2023, ISBN 978-1-6654-7546-4
13. Sekulić D., Čajko K., Ivetić T.: Characterization of Humidity Sensor Based on Nanostructured Porous LNTO Ceramics, 33. *International Conference on Microelectronics (MIEL)*, Niš: Electron Devices Society of the Institute of Electrical and Electronics Engineers, Inc., 16-18 October, 2023, pp. 51-54, ISBN 979-8-3503-4775-3
14. Sekulić D., Raonić R., Ivetić T.: X-band Cylindrical Dielectric Resonator Based on Lithium-Niobium-Titanium-Oxide Microwave Ceramics, 33. *International Conference on Microelectronics (MIEL)*, Niš: Electron Devices Society of the Institute of Electrical and Electronics Engineers, Inc., 16-18 October, 2023, pp. 55-58, ISBN 979-8-3503-4775-3
15. Simić M.: A 1.5 GHz-1.8 GHz Voltage Controlled Oscillator for Passive LC Sensors Readout, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 March, 2023, ISBN 978-1-6654-7546-4
16. Vasić B., Kisić M., Damjanović M.: Wireless System for Soil Humidity Measurement Applied in Pots, 46. *International Spring Seminar on Electronics Technology - ISSE*, Timisoara: IEEE, 10-14 May, 2023, pp. 1-4, ISBN 979-8-3503-3484-5

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Dočoš M., Vejin M., Luzio A., Feltri E., Kojić S., Petrović B., Stojanović G.: Investigation of covarine particle behaviour in a microfluidic mixer with artificial saliva, 24. *Annual Conference-YUCOMAT*, Herceg Novi: Material Research Society of Serbia, 4-8 September, 2023, pp. 1-1, ISBN 978-86-919111-8-8
2. Raonić R., Sekulić D., Lukić-Petrović S., Ivetić T.: Correlation between microstructure and electric properties of Li-Nb-Ti-O ceramics, 2. *Serbian Conference on Materials Application and Technology - SCOM*, Beograd: Društvo za razvoj nauke Srbije, 18-20 October, 2023, ISBN 978-86-904450-2-8

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Damjanović M., Kisić M., Nikolić K., Bu A.: STICANJE PRAKTIČNIH ZNANJA IZ PROJEKTOVANJA INTEGRISANIH KOLA KORIŠĆENJEM SOFTVERSKOG PAKETA CADENCE ZA POTREBE KOMPANIJA, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, Univerzitet u Novom sadu, 8-11 Februar, 2023, pp. 343-346, ISBN 978-86-6022-554-4
2. Damjanović M., Kisić M.: KARAKTERIZACIJA POTISKIVAČA ZAJEDNIČKIH SMETNJI KORIŠĆENJEM ANALIZATORA SPEKTRA, 22. *Savetovanje Energetska elektronika*, Novi Sad: Društvo za energetsku elektroniku; Fakultet tehničkih nauka, Novi Sad; Elektrotehnički institut Nikola Tesla; SANU, 25-28 Oktobar, 2023, pp. 29-34, ISBN 978-86-6022-630-5
3. Gotovac Z., Brestovački L.: Implementacija novih metoda u kapacitivnim pretvaračima, 67. *ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo, 5-8 Jun, 2023, pp. 1-4, ISBN 978-86-7466-969-3
4. Kisić M.: UČENJE KROZ PRAKTIČAN RAD: USVAJANJE SENZORSKIH TEHNOLOGIJA U OBRAZOVANJU, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Univerzitet u Novom Sadu i Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 370-373, ISBN 978-86-6022-554-4

**Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

1. Ivetić T., Čajko K., Sekulić D.: Fluorescence of heterojunction TiO<sub>2</sub>/MoO<sub>3</sub> semiconductors for environmental remediation and monitoring, *59. Savetovanje Srpskog hemijskog društva*, Novi Sad: Srpsko hemijsko društvo, 1-2 Jun, 2023, pp. 141-141, ISBN 978-86-7132-081-8
2. Raonić R., Sekulić D., Yatskiv R., Maixner J., Lukić-Petrović S., Ivetić T.: Phase and morphology changes in the lithium-niobium-titanium-oxide system induced by small additions of zinc-oxide, *28. Conference of the Serbian Crystallographic Society*, Čačak: Serbian Crystallographic Society, 14-15 Jun, 2023, pp. 73-73, ISBN 978-86-912959-6-7

**Spisak rezultata M85 - Prototip, nova metoda, softver, standardizovan ili atestiran instrument,**

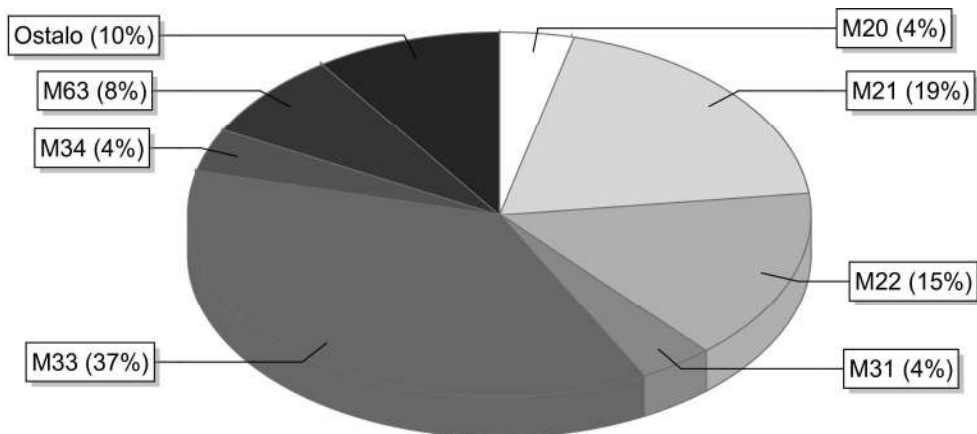
1. Menićanin A., Živanov Lj., Kisić M., Stefanov A.: Намотани кондензатор реализован у Fused Fabricated Filament технологији, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za telekomunikacije i obradu signala

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14	M28b	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u vrhunskom međunarodnom časopisu	M21	10
Rad u istaknutom međunarodnom časopisu	M22	8
Uređivanje istaknutog međunarodnog naučnog časopisa na godišnjem nivou(gost urednik)	M27	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	19
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	4
Odbranjena doktorska disertacija	M71	1
Novi proizvod ili tehnologija uvedeni u proizvodnju - međunarodni nivo	M81	1





## PRODUKCIJA - REZULTATI

### **Spisak rezultata M28b - Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14**

1. Kovačević M.: Associate Editor, IEEE Transactions on Information Theory, 2023, ISSN 0018-9448

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Čosović M., Mišković D., Delalić M., Raca D., Vukobratović D.: Distributed Inference over Linear Models using Alternating Gaussian Belief Propagation, IEEE Internet of Things Journal, 2023, Vol. 10, No. 22, pp. 19949-19963, ISSN 2327-4662
2. Krstanović L., Popović B., Janev M., Brkljač B.: Feature Map Regularized CycleGAN for Domain Transfer, Mathematics, 2023, Vol. 11, No. 2: 372, pp. 1-21, ISSN 2227-7390

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Armacki A., Bajović D., Jakovetić D., Kar S.: A One-Shot Framework for Distributed Clustered Learning in Heterogeneous Environments, IEEE Transactions on Signal Processing, 2023, Vol. 72, pp. 636-651, ISSN 1053-587X
2. Bojović P., Malbašić T., Vujošević D., Martić G., Bojović Ž.: Dynamic QoS Management for a Flexible 5G/6G Network Core: A Step toward a Higher Programmability, Sensors, 2023, Vol. 22, No. 8, pp. 1-23, ISSN 1424-8220
3. D'Elia D., Truu J., Lahti L., Berland M., Papoutsoglou G., Ceci M., Zomer A., Lopes M., Ibrahim E., Gruca A., Nechyporenko A., Frohme M., Klammsteiner T., De Santa Pau E., Marcos Zambrano L., Hron K., Pio G., Simeon (Mihajlović) A., Suharoschi R., Moreno Indias I., Temko A., Nedyalkova M., Apostol E., Truičá C., Shigdel R., Hasic Telalovic J., Bongcam-Rudloff E., Przymus P., Babic Jordamovic N., Falquet L., Tarazona S., Sampri A., Isola G., Pérez-Serrano D., Trajkovic V., Klucar L., Lončar-Turukalo T., Havulinna A., Jansen C., Bertelsen R., Claesson M.: Advancing microbiome research with machine learning: key findings from the ML4Microbiome COST action, Frontiers in Microbiology, 2023, Vol. 14, ISSN 1664-302X
4. Jakovetić D., Vuković M., Bajović D., Kumar Sahu A., Kar S.: Distributed Recursive Estimation under Heavy-Tail Communication Noise, SIAM Journal on Control and Optimization, Society for Industrial and Applied Mathematics, 2023, Vol. 63, No. 3, pp. 1582-1609, ISSN 0363-0129
5. Kalušev V., Popović B., Janev M., Brkljač B., Ralević N.: Measure of Similarity between GMMs Based on Autoencoder-Generated Gaussian Component Representations, Axioms, 2023, Vol. 12, No. 6: 535, pp. 1-21, ISSN 2075-1680
6. Kundačina O., Čosović M., Mišković D., Vukobratović D.: Graph neural networks on factor graphs for robust, fast, and scalable linear state estimation with PMUs, Sustainable Energy, Grids and Networks, 2023, Vol. 34, No. 101056, ISSN 2352-4677
7. Marcos Zambrano L., López Molina V., Bakir-Gungor B., Frohme M., Karaduzovic-Hadziabdic K., Klammsteiner T., Ibrahim E., Lahti L., Lončar-Turukalo T., Dharmo X., Simeon (Mihajlović) A., Nechyporenko A., Pio G., Przymus P., Sampri A., Trajkovic V., Aasmets O., Araujo R., Anagnostopoulos I., Aydemir O., Berland M., de la Luz Calle M., Ceci M., Duman H., Gundogdu A., Havulinna A., Kaka Bra K., Kalluci E., Karav S., Lode D., Lopes M., May P., Nap B., Nedyalkova M., Paciencia I., Pasic L., Pujolassos M., Shigdel R., Susin A., Thiele I., Truičá C., Wilmes P., Yilmaz E., Yousef M., Claesson M., Truu J., De Santa Pau E.: A toolbox of machine learning software to support microbiome analysis, Frontiers in Microbiology, 2023, Vol. 14, ISSN 1664-302X
8. Petrović N., Bajović D., Kar S., Jakovetić D., Kumar Sahu A.: Large Deviations for Products of Non-Identically Distributed Network Matrices With Applications to Communication-Efficient Distributed Learning and Inference, IEEE Transactions on Signal Processing, 2023, Vol. 71, pp. 1319-1333, ISSN 1053-587X
9. Popović Krneta M., Šobić Šaranović D., Mijatović Teodorović Lj., Krajčinović N., Avramović N., Bojović Ž., Bukumirić Z., Marković I., Rajšić S., Bazić Đorović B., Artiko V., Karličić M., Tanić M.: Prediction of Cervical Lymph Node Metastasis in Clinically Node-Negative T1 and T2 Papillary Thyroid Carcinoma Using Supervised Machine Learning Approach, Journal of Clinical Medicine, 2023, Vol. 12, No. 11, pp. 1-16, ISSN 2077-0383
10. Škorić (Ćeranić) T.: Stress level detection based on capacitive electrocardiogram signals of driving subjects, Sensors, 2023, Vol. 23, No. 22, pp. 1-16, ISSN 1424-8220

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Babović S., Vujović M., Stilić N., Jeftić O., Novaković A.: Labeling of Baropodometric Analysis Data Using Computer Vision Techniques in Classification of Foot Deformities, Medicina (Kaunas), 2023, Vol. 59, No. 5, ISSN 1010-660X

2. Bajović D.: Inaccuracy rates for distributed inference over random networks with applications to social learning, *IEEE Transactions on Information Theory*, 2023, Vol. 70, No. 1, pp. 415-435, ISSN 0018-9448
3. Bojović Ž., Klipa Đ., Petar D B., Irena M J., Jelena Š., Šenk V.: Interconnected Government Services: An Approach toward Smart Government, *Applied Sciences*, 2023, Vol. 13, No. 2, pp. 1-13, ISSN 2076-3417
4. Devaja T., Petković M., Escribano F., Stefanović Č., Vukobratović D.: Slotted Aloha with Capture for OWC-based IoT: Finite Block-Length Performance Analysis, *IEEE Access*, 2023, ISSN 2169-3536
5. Petković M., Vukobratović D., Munari A., Clazzer F.: Two-Tier Multi-Rate Slotted ALOHA for OWC/RF-Based IoT Networks, *IEEE Communications Letters*, 2023, Vol. 27, No. 4, pp. 1190-1194, ISSN 1089-7798
6. Popović-Krneta M., Šobić-Šaranović D., Mijatović-Teodorović Lj., Krajčinović N., Avramović N., Bojović Ž., Bukumirić Z., Marković I., Rajšić S., Bazić-Đorović B., Artiko V., Karličić M., Tanić M.: Prediction of Cervical Lymph Node Metastasis in Clinically Node-Negative T1 and T2 Papillary Thyroid Carcinoma Using Supervised Machine Learning Approach, *Journal of Clinical Medicine*, 2023, Vol. 12, No. 11, pp. 1-16, ISSN 2077-0383
7. Stanojević I., Šenk V.: Convolutional Codes with Optimum Bidirectional Distance Profile, *Problems of Information Transmission*, 2023, Vol. 59, pp. 181-203, ISSN 0032-9460
8. Vrbaški V., Jošić S., Vranjković V., Teodorović P., Struharik R.: Puppis: Hardware Accelerator of Single-Shot Multibox Detectors for Edge-Based Applications, *Electronics (Basel)*, 2023, Vol. 12, No. 22, pp. 1-19, ISSN 2079-9292

**Spisak rezultata M27 - Uređivanje istaknutog međunarodnog naučnog časopisa na godišnjem nivou(gost urednik)**

1. Kovačević M.: Associate Editor, *IEEE Transactions on Information Theory*, 2023, ISSN 0018-9448

**Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Gojić G., Vincan V., Kundačina O., Mišković D., Dragan D.: Non-adversarial Robustness of Deep Learning Methods for Computer Vision, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 June, 2023
2. Popović B.: Style Adaptation Based on Image Processing Methods Using CycleGAN, *10. SINTEZA - International Scientific Conference on Information Technology, Computer Science and Data Science*, Beograd, 27 May, 2023, pp. 9-16, ISBN 978-86-7912-802-7

**Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Dimitrievski A., Lončar-Turukalo T., Trajković V.: Securing Patient Information in Connected Healthcare Systems in the Age of Pervasive Data Collection, *3. IEEE International Mediterranean Conference on Communications and Networking - MeditCom*, Dubrovnik: IEEE, 4-7 September, 2023, pp. 29-33, ISBN 979-8-3503-3373-2
2. Đurić N., Kljajić D., Škorić (Ćeranić) T., Pasquino N.: The Wireless EMF Monitoring in Sensitive Areas around Kindergartens and Schools, *26. IMEKO TC4 International Symposium*, Pordenone: International Measurement Confederation (IMEKO TC4), 20-21 September, 2023, pp. 16-20, ISBN 978-3-033-09885-5
3. Đurić N., Škorić (Ćeranić) T., Kljajić D., Otašević V., Đurić S.: A Hidden Knowledge in Long-term EMF Monitoring of EMF RATEL Monitoring Network, *44. Progress In Electromagnetics Research Symposium - PIERS*, Prag: The Electromagnetics Academy, 3-6 July, 2023, pp. 1856-1861, ISBN 979-8-3503-1284-3
4. Đurić N., Škorić (Ćeranić) T., Kljajić D., Otašević V., Đurić S.: An Approach for Evaluation of the Long-term EMF Monitoring, *8. IEEE RADIO International Conference*, Balaclava: IEEE, 1-4 May, 2023, pp. 1-2, ISBN 979-8-3503-4791-3
5. Goyal K., Dao D., Kiah H., Kovačević M.: Evaluation of the Gilbert-Varshamov Bound Using Multivariate Analytic Combinatorics, *56. IEEE International Symposium on Information Theory ISIT*, Taipei, 25-30 June, 2023, pp. 2458-2463
6. Iovino M., Lazić I., Lončar-Turukalo T., Javorka M., Pernice R., Faes L.: Classification of Physiological States through Machine Learning Algorithms Applied to Ultra-Short-Term Heart Rate and Pulse Rate Variability Indices on a single-feature basis, *16. MEDICON Mediterranean Conf. On Medical and Biological Engineering and Computing*, Sarajevo: Springer, 14-16 September, 2023, pp. 114-124, ISBN 978-3-031-49062-0
7. Jakovljević N., Đurić N., Kljajić D., Škorić (Ćeranić) T., Đurić S.: An Approach of the Electric Field Strength Prediction Using Time Series Analysis, *44. Progress In Electromagnetics Research Symposium - PIERS*, Prag: The Electromagnetics Academy, 3-6 July, 2023, pp. 1862-1871, ISBN 979-8-3503-1284-3
8. Kljajić D., Đurić N., Škorić (Ćeranić) T., Kasaš-Lažetić K.: Continuous EMF Exposure in the Sensitive Area

of Kindergarten in Novi Sad City, 16. *International Conference on Applied Electromagnetics*, Niš: Elektronski fakultet u Nišu, 28-30 August, 2023, pp. 102-105, ISBN 978-86-6125-271-6

9. Kundačina O., Gojić G., Čosović M., Mišković D., Vukobratović D.: Supporting Future Electrical Utilities: Using Deep Learning Methods in EMS and DMS Algorithms, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 March, 2023
10. Lazić I., Jakovljević N., Rapaić M., Boban (Konstantinović) J., Lončar-Turukalo T.: Evaluation of deep learning techniques for automatic lesion segmentation in mammography images, 16. *MEDICON Medditeranian Conf. On Medical and Biological Engineering and Computing*, Sarajevo: Springer, 14-16 September, 2023, pp. 684-695, ISBN 978-3-031-49062-0
11. Mijatović G., Bara C., Pernice R., Lončar-Turukalo T., Nollo G., Faes L.: Exploring the Short-Term Memory of Heart Rate Variability through Model-Free Information Measures, 45. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Sydney: IEEE, 24-27 July, 2023, pp. 1-4, ISBN 979-8-3503-2448-8
12. Minja A.: Linear Generalized Preparata Codes over  $\mathbb{Z}_{2^s}$  and a SISO MAP Decoding Algorithm for Them, 31. *Telekomunikacioni forum TELFOR*, Beograd: IEEE, 21-22 November, 2023, ISBN 979-8-3503-0313-1
13. Mlađen M., Banović J., Galić J., Gardašević G., Petković M.: Speech quality assessment in visible light communications, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023, pp. 1-6, ISBN 978-1-6654-7546-4
14. Ninković V., Vukobratović D., Häger C., Wymeersch H., Graell i. Amat A.: Rateless Autoencoder Codes: Trading off Decoding Delay and Reliability, 57. *IEEE International Conference on Communications (ICC)*, Rim: IEEE, 28-1 May, 2023, ISBN 978-1-5386-7462-8
15. Ninković V., Vukobratović D., Pastore A., Antón-Haro C.: A Weighted Autoencoder-Based Approach to Downlink NOMA Constellation Design, 24. *IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, Shanghai: IEEE, 25-28 September, 2023
16. Nosek (Delić) T., Suzić S., Delić V., Sečujski M.: Cross-lingual Text-to-Speech with prosody embedding, 30. *IWSSIP, International Workshop on Systems, Signal and Image Processing*, Ohrid, 27-29 June, 2023, pp. 1-4, ISBN 979-8-3503-3729-7
17. Petar D. B., Bojović Ž.: Design and development of an intelligent energy management system for a hybrid micro-grid solution, 21. *International Symposium POWER ELECTRONICS Ee*, Novi Sad, 27-30 October, 2021, ISBN 978-86-6022-607-7
18. Sečujski M., Jakovljević N., Simić N., Delić V., Krstanović L., Nosek (Delić) T., Popović B., Suzić S., Stanojev V.: Towards More Flexible Human-Machine Speech Communication, 31. *Telekomunikacioni forum TELFOR*, Beograd, 21-22 November, 2023, pp. 1-4, ISBN 979-8-3503-0313-1
19. Škorić (Ćeranić) T., Bajić D.: Epileptic seizure prediction of pediatric subjects in health-care pervasive environments, 57. *IEEE International Conference on Communications (ICC)*, Rim, 28-1 May, 2023, pp. 1716-1720, ISBN 979-8-3503-3307-7

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Škorić (Ćeranić) T.: Binarized approximate entropy for classification of term neonates with seizure, 5. *NEonatal Sleep Talks - NEST*, Cambridge, 31-1 August, 2023, pp. 19-19
2. Tsave O., Kosvyra A., Filos D., Lazić I., Lončar-Turukalo T., Jakovljević N., Xinou E., Fotopoulos D., Zacharias L., Nabhani-Gebara S., Tsakou G., Chouvarda I.: Data Validation in Cancer Imaging Repositories: the INCISIVE Approach, 1. *IEEE EMBS International Conference on Data Science and Engineering in Healthcare, Medicine & Biology*, Portomaso: IEEE, 7-9 December, 2023, pp. 75-76, ISBN 979-8-3503-8338-6

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Popović B., Janev M.: Speech Enhancement by CycleGAN Using Feature Map Regularization, *Journal of Computer and Forensic Sciences*, 2023, Vol. 2, No. 1, pp. 19-28, ISSN 2956-0799

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Bajić D.: Teorija informacija u biosistemima, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: Univerzitet Istočno Sarajevo, 15-17 Mart, 2023, pp. 50-54, ISBN 978-99976-996-1
2. Delić V., Sečujski M., Suzić S., Nosek (Delić) T., Stanojev V., Popović B., Pekar D.: Progres u razvoju sinteze govora na osnovu teksta za srpski na bazi AI/DNN i potencijali njegove primene, 29. *YU INFO*, Kopaonik: Informaciono društvo Srbije, 12-15 Mart, 2023, pp. 84-89, ISBN 978-86-85525-29-2

3. Popović B., Pakoci E., Sečujski M., Pekar D., Delić V., Janev M., Krstanović L.: Implementacije sistema za automatsko prepoznavanje govora na srpskom jeziku, 29. *YU INFO*, Kopaonik: Informaciono društvo Srbije, 12-15 Mart, 2023, pp. 90-93, ISBN 978-86-85525-29-2
4. Škorić (Ćeranić) T., Bajić D.: Detekcija epileptičkih faza pedijatrijskih pacijenata singularnom dekompozicijom elektroencefalografskih signala, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 Mart, 2023, pp. 55-58, ISBN 978-99976-996-1-9

**Spisak rezultata M71 - Odbranjena doktorska disertacija**

1. Nosek (Delić) T.: Ekspresivni višejezični sintetizator govora, Novi Sad, 2023

**Spisak rezultata M81 - Novi proizvod ili tehnologija uvedeni u proizvodnju - međunarodni nivo**

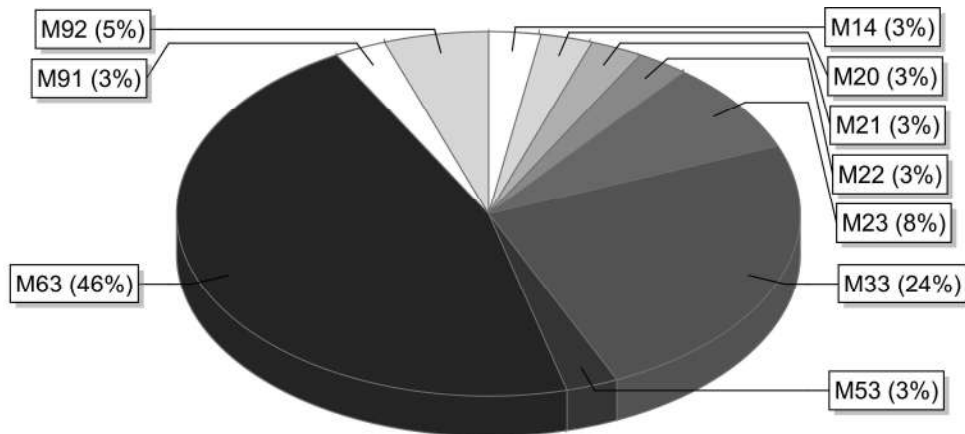
1. Raković M., Mišković D., Milić L., Čilag A., Berisavljević T.: Automatizacija fabričkih procesa kroz integraciju mobilnog i industrijskog robota, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za električna merenja

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	9
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	17
Registrovan patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo na međunarodnom nivou	M91	1
Registrovan patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	2



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M14 - Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja**

1. Urekar M., Đorđević Kozarov J.: Stochastic Smart Grid Meter for Industry 4.0 - From an Idea to the Practical Prototype, New York, Springer International Publishing AG, 2023, ISBN 9783031178191

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Zablotska L., Zupunski Lj., Klervi L., Lopes J., Hinkle J., Pugeda T., Delgado T.: Radiation and CNS effects: summary of evidence from a recent symposium of the Radiation Research Society, *Int J Radiat Biol*, 2023, No. 99(9), pp. 1332-1342

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Antić B., Bulat M., Pejić D., Gotovac Z., Mitrović Z.: Batteryless IoT Module for Sensing and Signaling Failures of Passive Power Accessories, *Microprocessors and Microsystems*, 2023, Vol. 98, No. 104809, pp. 1-16, ISSN 0141-9331

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Župunski Lj., Street ., Ostroumova E., Winde F., Sachs S., Geipel G., Nkosi V., Bouaoun L., Haman T., Schüz J., Mathee A.: Environmental exposure to uranium in a population living in close proximity to gold mine tailings in South Africa, *Journal of Trace Elements in Medicine and Biology*, 2023, ISSN 0946-672X

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Gazivoda N., Petrović N., Mandić S., Borojević S., Gazivoda N., Sovilj P.: Cognitive phenomena measurement with time window-based multispectral brain mapping, *Technology and Health Care*, 2023, pp. 1-10, ISSN 0928-7329
2. Kušljević M., Vujičić V., Tomić J., Poljak P.: IIR Cascaded-Resonator-Based Complex Filter Banks, *Archives of Acoustics*, 2023, Vol. 5, No. 2, pp. 535-552, ISSN 0137-5075
3. Petrović N., Mandić S., Borojević S., Gazivoda N., Sovilj P.: Cognitive phenomena measurement with time window-based multispectral brain mapping, *Technology and Health Care*, 2023, pp. 1-10, ISSN 0928-7329

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Đorđević Kozarov J., Sovilj P., Simić M., Urekar M., Stojanović M., Živanović D.: Additional experimental investigation of interval overlapping method for biomedical signal measurement, *16. International Conference on Applied Electromagnetics*, Niš: Univerzitet u Nišu, Elektronski fakultet, 28-30 August, 2023, pp. 73-76, ISBN 978-86-6125-271-6
2. Gotovac Z., Urekar M., Bulat M., Milojević J., Gazivoda N.: Calibration of chemical and solid-state DC voltage standards in Industry 4.0, *8. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad: IEEE, 29-31 May, 2023, pp. 101-106, ISBN 979-8-3503-4772-2
3. Mandić S., Pejić D., Novaković Đ., Urekar M., Sovilj P.: Phase measurement methods based on timer modules, *26. IMEKO TC4 International Symposium*, Pordenone: IMEKO, 20-21 September, 2023, pp. 144-147, ISBN 978-3-033-09885-5
4. Petrović N., Spahić L., Mandić S., Sovilj P.: Decoding Cognitive Processes in Arithmetic Tasks: An EEG-Based Convolutional Neural Network Model, *26. IMEKO TC4 International Symposium*, Pordenone, 20-21 September, 2023, pp. 154-159, ISBN 978-3-033-09885-5
5. Sovilj P., Mandić S., Pejić D., Novaković Đ., Urekar M.: Metrology and Capacity Building in Higher Education: Project Knowledge Triangle for a Low Carbon Economy (KALCEA), *26. IMEKO TC4 International Symposium*, Pordenone: IMEKO, 20-21 September, 2023, pp. 148-150, ISBN 978-3-033-09885-5
6. Sovilj P., Pejić D., Urekar M., Mandić S.: Digital Stochastic Measurement and Industry 4.0, *26. IMEKO TC4 International Symposium*, Pordenone: IMEKO, 20-21 September, 2023, pp. 151-153, ISBN 978-3-033-09885-5
7. Šaš M., Vukajlović N., Medić S., Pejić D.: Korišćenje integrišućeg analogno-digitalnog konvertora za karakterizaciju superkondenzatora u uslovima visokog prisustva šuma, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 June, 2023, pp. 1-4, ISBN 978-86-7466-969-3
8. Tomić J., Gazivoda N., Kušljević M., Sovilj P., Šaš M.: Travel Route Planning in Smart Cities, *8. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad: IEEE, 29-31 May, 2023, ISBN 979-8-3503-4772-2
9. Urekar M., Đorđević Kozarov J., Gotovac Z.: Customized differential microvolt preamplifier for

measurements of biomedical signals, 16. *International Conference on Applied Electromagnetics*, Niš: Univerzitet u Nišu, Elektronski fakultet, 28-30 August, 2023, pp. 77-80, ISBN 978-86-6125-271-6

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Đorđević-Kozarov J., Sovilj P., Simić M., Urekar M., Stojanović M., Živanović D.: Further experimental research of interval overlapping method for biomedical signal measurement, *Electrotechnica and Electronica*, 2023, Vol. 58, No. 4, pp. 81-87, ISSN 0861-4717

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Bjelić M., Urekar M.: Metrološki aspekt veštačke inteligencije u Industriji 4.0, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo: Društvo za ETRAN, 5-8 Jun, 2023, pp. 1-5, ISBN 978-86-7466-969-3
2. Gotovac Z., Brestovački L.: Implementacija novih metoda u kapacitivnim pretvaračima, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo, 5-8 Jun, 2023, pp. 1-4, ISBN 978-86-7466-969-3
3. Jeličić B., Urekar M.: Smart pojačalo na bazi TAS2764 u merno merno-informacionom sistemu za Industriju 4.0, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo: Društvo za ETRAN, 5-8 Jun, 2023, pp. 1-4, ISBN 978-86-7466-969-3
4. Jović J., Urekar M.: Merni instrumenti za testiranje integriteta signala, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo: Društvo za ETRAN, 5-8 Jun, 2023, pp. 1-6, ISBN 978-86-7466-969-3
5. Kerac J., Dimitrijević N., Ivanković M., Milić N.: EEG for Assessing Game Experience via Character Identification, 1. *Konferencija Merno-informacione tehnologije 2023 (MIT 2023)*, Novi Sad: Fakultet Tehničkih nauka, Novi Sad, 26-29 Decembar, 2023, ISBN 978-86-6022-649-7
6. Mandić S., Pejanović V., Đerić J., Evetović N., Miljuš S., Sovilj P.: Razvojna i eksperimentalna platforma u nastavnim aktivnostima iz oblasti interfejsa mozak-računar, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 40-45, ISBN 978-86-6022-554-4
7. Mandić S., Urekar M., Novaković Đ., Pejić D.: Sistem za merenje faznog stava zasnovan na tajmerskim metodama, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo: Društvo za ETRAN, 5-8 Jun, 2023, pp. 1-6, ISBN 978-86-7466-969-3
8. Marinko M., Urekar M.: Unapređenje sistema za napajanje pametnih brojila električne energije, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo: Društvo za ETRAN, 5-8 Jun, 2023, pp. 1-5, ISBN 978-86-7466-969-3
9. Mirković S., Grbić T., Gazivoda N., Novaković Đ., Gotovac Z., Pejić D.: Određivanje merne nesigurnosti transfera Hamonovih otpornika, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo, 5-8 Jun, 2023, pp. 1-4, ISBN 978-86-7466-969-3
10. Nešovanović A., Urekar M.: Projektovanje i simulacioni model prototipa generatora stepeničastog napona, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo: Društvo za ETRAN, 5-8 Jun, 2023, pp. 1-6, ISBN 978-86-7466-969-3
11. Novaković Đ., Gazivoda N., Mandić S., Gotovac Z., Mirković S.: Predlog realizacije etalonskog izvora frekvencije disciplinovanog GPS-om, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo, 5-8 Jun, 2023, pp. 1-4, ISBN 978-86-7466-969-3
12. Novaković Đ., Urekar M.: Pametna merna platforma ARIOT, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo: Društvo za ETRAN, 5-8 Jun, 2023, pp. 1-8, ISBN 978-86-7466-969-3
13. Pejanović V., Mandić S., Đerić J., Evetović N., Miljuš S., Sovilj P.: Napredni istraživački alati u istraživanju obrazovanja: Interfejs mozak-računar i Strupov efekat, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 351-356, ISBN 978-86-6022-554-4
14. Rafailović J., Mandić S., Sovilj P.: Razvoj virtualne instrumentacije za monitoring kognitivnih parametara zasnovan na merenju EEG signala, 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo, 5-8 Jun, 2023, pp. 1-5, ISBN 978-86-7466-969-3
15. Sovilj P., Novaković Đ., Mandić S., Pejić D., Gotovac Z., Gazivoda N.: Razvoj studijskih programa i predmeta u okviru projekta ERASMUS+ ELEMEND, 5. *Energetska efikasnost ENEF*, Banja Luka, 26-27 April, 2023, pp. 37-40, ISBN 978-99976-978-9-9

16. Urekar M.: NOVA VERZIJA STANDARDA SRPS EN IEC 61557-9 OPREMA ZA LOCIRANJE KVARA IZOLACIJE U IT SISTEMIMA, 14. *International Scientific Conference ETIKUM*, Novi Sad: UNIVERSITY OF NOVI SAD, FACULTY OF TECHNICAL SCIENCES DEPARTMENT OF PRODUCTION ENGINEERING CHAIR OF METROLOGY, QUALITY, FIXTURES, TOOLS AND ECOLOGICAL ENGINEERING ASPECTS, 7-9 Decembar, 2023, pp. 125-128, ISBN 978-86-6022-617-6
17. Volaš M., Mandić S., Sovilj P.: Razvoj sistema za merenje muzički stimulisanog EEG odziva , 67. *ETLAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo, 5-8 Jun, 2023, pp. 1-3, ISBN 978-86-7466-969-3

***Spisak rezultata M91 - Registrovan patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo na međunarodnom nivou***

1. Antić B., Santrač B.: Architecture of Time Sampling Digital Signal Processing Device Based on an Application of the Frequency Multiplying Device EP3867652A1; WO2020078927A1 (EN), Minhen, European Patent Office, 2023, str. 1-1

***Spisak rezultata M92 - Registrovan patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo***

1. Antić B., Paroški M., Mitrović Z., Pejić D., Bulat M., Gazivoda N., Gotovac Z.: Inverzna pasivna radio-frekvencijska identifikaciona pločica u jednoslojnoj štampi (P-2021/1223), Beograd, Zavod za intelektualnu svojinu Republike Srbije, 2023, str. 1-1
2. Mitrović Z., Antić B., Zeković Z., Pavlić B.: Merno-regulacioni uređaj za Anhydro A/S sušač sa raspršivanjem realizovan pomoću programabilnog logičkog kontrolera (P-2022/0083), Beograd, Zavod za intelektualnu svojinu Republike Srbije, 2023

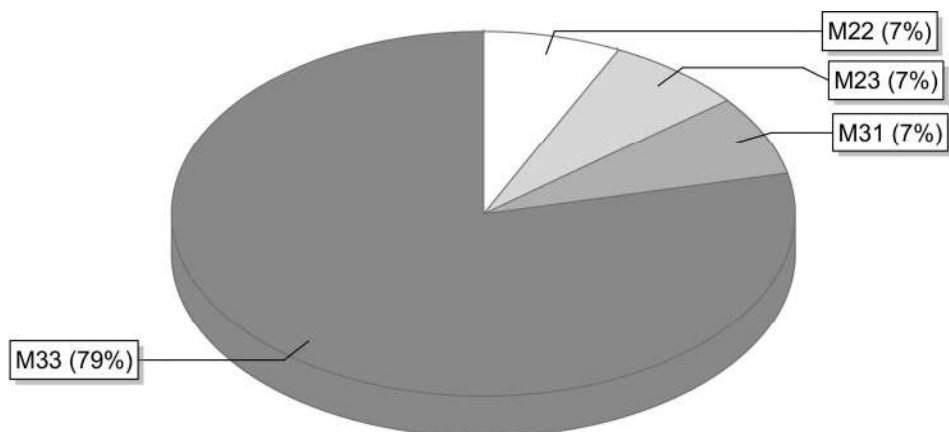


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za teorijsku elektrotehniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	11



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Sparacino L., Faes L., Mijatović G., Parla G., Lo Re V., Miraglia R., de Ville de Goye J., Sparacia G.: Statistical Approaches to Identify Pairwise and High-Order Brain Functional Connectivity Signatures on a Single-Subject Basis, *Life*, 2023, Vol. 13, No. 10, pp. 1-19, ISSN 2075-1729

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Vučković D., Jovanović D., Cvetković N., Tasić D., Kasaš-Lažetić K.: An Approximate Model for Determining the Resistance of a Hemispherical Ground Electrode Placed on a Non-homogeneous Truncated Cone, *Acta Polytechnica Hungarica, Journal of Applied Sciences*, 2023, Vol. 20, No. 6, pp. 119-133, ISSN 1785-8860

### **Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Đurić N.: EMF Monitoring: from the general public requirements to the industrial needs, *26. IMEKO TC4 International Symposium*, Pordenone: International Measurement Confederation (IMEKO TC4), 20-21 September, 2023, pp. 1-4, ISBN 978-3-033-09885-5

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

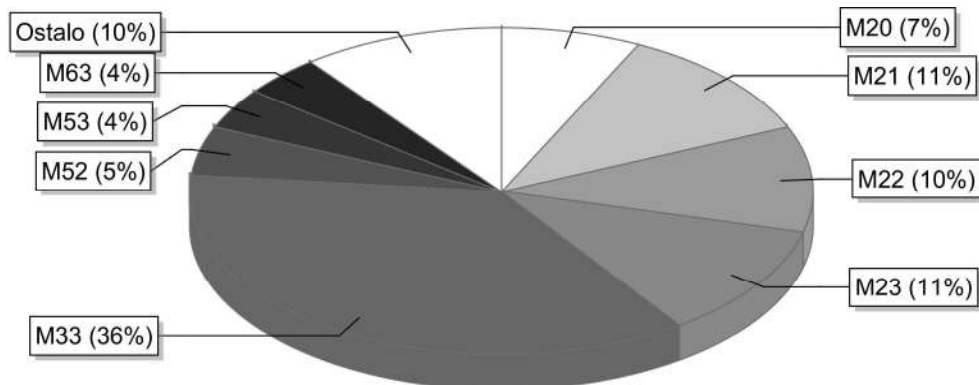
1. Antonacci, Y., Mijatović G., Sparacino L., Valenti S., Sparacia G., Marinazzo D., Stramaglia S., Faes L.: Measuring the Balance Between Synergy and Redundancy in Network Systems by Using Information Theory, *16. MEDICON Medditeranian Conf. On Medical and Biological Engineering and Computing*, Sarajevo: Springer Nature Switzerland, 14-16 September, 2023, pp. 145-154, ISBN 978-3-031-49061-3
2. Đurić N., Kljajić D., Škorić (Ćeranić) T., Pasquino N.: The Wireless EMF Monitoring in Sensitive Areas around Kindergartens and Schools, *26. IMEKO TC4 International Symposium*, Pordenone: International Measurement Confederation (IMEKO TC4), 20-21 September, 2023, pp. 16-20, ISBN 978-3-033-09885-5
3. Đurić N., Škorić (Ćeranić) T., Kljajić D., Otašević V., Đurić S.: A Hidden Knowledge in Long-term EMF Monitoring of EMF RATEL Monitoring Network, *44. Progress In Electromagnetics Research Symposium - PIERS*, Prag: The Electromagnetics Academy, 3-6 July, 2023, pp. 1856-1861, ISBN 979-8-3503-1284-3
4. Đurić N., Škorić (Ćeranić) T., Kljajić D., Otašević V., Đurić S.: An Approach for Evaluation of the Long-term EMF Monitoring, *8. IEEE RADIO International Conference*, Balaclava: IEEE, 1-4 May, 2023, pp. 1-2, ISBN 979-8-3503-4791-3
5. Đurić S., Bjelica J., Đurić N.: A Hybrid Electromagnetic-triboelectric Nanogenerator as a Self-powered Sensor for Moving Directions, *44. Progress In Electromagnetics Research Symposium - PIERS*, Prag: The Electromagnetics Academy, 3-6 July, 2023, pp. 1581-1588, ISBN 979-8-3503-1284-3
6. Faes L., Mijatović G., Sparacino L., Antonacci Y., Marinazzo D., Stramaglia S.: Investigating Dynamic High-Order Interactions in Physiological Networks through Predictive Information Decomposition, *45. Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Sydney: IEEE, 24-27 July, 2023, pp. 1-4, ISBN 979-8-3503-2448-8
7. Jakovljević N., Đurić N., Kljajić D., Škorić (Ćeranić) T., Đurić S.: An Approach of the Electric Field Strength Prediction Using Time Series Analysis, *44. Progress In Electromagnetics Research Symposium - PIERS*, Prag: The Electromagnetics Academy, 3-6 July, 2023, pp. 1862-1871, ISBN 979-8-3503-1284-3
8. Kasaš-Lažetić K., Milutinov M., Spasić (Gavrilov) T., Mijatović G.: Improving the coil design parameters to achieve a high uniformity magnetic field, *16. International Conference on Applied Electromagnetics*, Niš: Elektronski fakultet u Nišu, 28-30 August, 2023, pp. 85-88, ISBN 978-86-6125-271-6
9. Kljajić D., Đurić N., Škorić (Ćeranić) T., Kasaš-Lažetić K.: Continuous EMF Exposure in the Sensitive Area of Kindergarten in Novi Sad City, *16. International Conference on Applied Electromagnetics*, Niš: Elektronski fakultet u Nišu, 28-30 August, 2023, pp. 102-105, ISBN 978-86-6125-271-6
10. Mijatović G., Bara C., Pernice R., Lončar-Turukalo T., Nollo G., Faes L.: Exploring the Short-Term Memory of Heart Rate Variability through Model-Free Information Measures, *45. Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Sydney: IEEE, 24-27 July, 2023, pp. 1-4, ISBN 979-8-3503-2448-8
11. Milutinov M., Kasaš-Lažetić K., Spasić (Gavrilov) T., Prša M.: The Influence of Unbalanced Current in Bus Bars on Magnetic Field Distribution, *16. International Conference on Applied Electromagnetics*, Niš, 28-30 August, 2023, pp. 22-25, ISBN 978-86-6125-271-6

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za računarstvo i automatiku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	9
Rad u vrhunskom međunarodnom časopisu	M21	14
Rad u istaknutom međunarodnom časopisu	M22	13
Rad u međunarodnom časopisu	M23	14
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	45
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	6
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
Odbranjena doktorska disertacija	M71	2

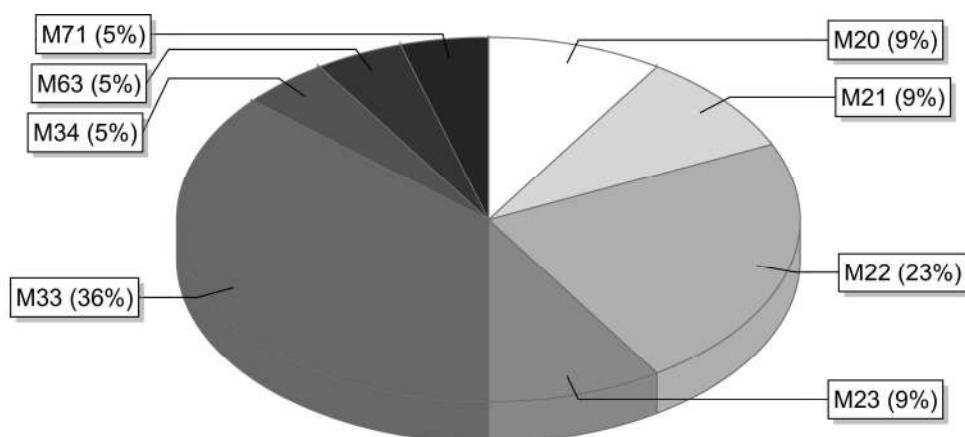


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za automatsko upravljanje

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Odbranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Kovačić I., Teofanov Lj., Kanović Ž., Zhao J., Rui Z., Rajs V.: On the influence of internal oscillators on the performance of metastructures: Modelling and tuning conditions, *Mechanical Systems and Signal Processing*, 2023, Vol. 205, pp. 1-13, ISSN 0888-3270
2. Rapaić M., Turkulov V., Malti R.: A novel approach to stability analysis of a wide class of irrational linear systems, *Fractional Calculus and Applied Analysis*, 2023, Vol. 26, pp. 70-90, ISSN 1311-0454

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Jovičić G., Milošević A., Kanović Ž., Šokac M., Šimunović G., Savković B., Vukelić Đ.: Optimization of Dry Turning of Inconel 601 Alloy Based on Surface Roughness, Tool Wear, and Material Removal Rate, Article Number: 1068, *Metals*, 2023, Vol. 13, No. 6, ISSN 2075-4701
2. Knežević I., Rackov M., Kanović Ž., Buljević A., Antić A., Tica M., Živković A.: An Analysis of the Influence of Surface Roughness and Clearance on the Dynamic Behavior of Deep Groove Ball Bearings Using Artificial Neural Networks, *Materials*, 2023, Vol. 16, No. 9, pp. 3529-3546, ISSN 1996-1944

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Atanacković-Jeličić J., Rapaić M., Maraš I., Tot E., Ecet D.: Can Technology Reinforce Cogency of the Architectural Argument: Trial and Error Approach, *Buildings*, 2023, Vol. 13, No. 1866, pp. 1-15, ISSN 2075-5309
2. Bojić S., Maslarić M., Mirčetić D., Nikoličić S., Todorović V.: Simulation and Genetic Algorithm-based approach for multi-objective optimization of production planning: A case study in industry, *Advances in Production Engineering and Management*, 2023, Vol. 18, No. 2, pp. 250-262, ISSN 1854-6250
3. Grabić S., Vekić M., Rapaić M., Todorović I., Porobić V.: Peer-to-Peer-Based Power Flow Control in Microgrids With Limited Voltage Harmonic Distortion, *IEEE Access*, 2023, Vol. 11, pp. 99999-99999, ISSN 2169-3536
4. Kovačić I., Kanović Ž.: Chladni plate in anechoic chamber: symmetry in vibrational and acoustic response, *Symmetry*, 2023, Vol. 15, No. 9, pp. 1-9, ISSN 2073-8994
5. Krsman A., Grujić Z., Čapko D., Dragutinović Đ., Baturan B., Nikolić A., Antić-Trifunović K., Dickov I.: Ultrasound assessment of cervical status compared to the Bishop score-predicting the success of labor induction using a machine learning-based model, *European Review for Medical and Pharmacological Sciences (Eur Rev Med Pharmacol Sci)*, 2023, Vol. 27, No. 13, pp. 6332-6342, ISSN 1128-3602

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Stanojević M., Čapko D., Lendak I., Stoja S., Jelačić B.: Fighting Insider Threats, with Zero-Trust in Microservice-based, Smart Grid OT Systems, *Acta Polytechnica Hungarica, Journal of Applied Sciences*, 2023, Vol. 20, No. 6, pp. 229-248, ISSN 1785-8860
2. Stefanović M., Pržulj Đ., Stefanović D., Ristić S., Čapko D.: The Proposal of New Ethereum Request for Comments for Supporting Fractional Ownership of Non-Fungible Tokens, *Computer Science and Information Systems*, 2023, Vol. 20, No. 3, pp. 1133-1155, ISSN 1820-0214

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Čapko D., Mitrović A., Dalčeković M., Vukmirović S., Nedić N.: Cross-chain General Message Passing Protocol via Eternal Bridge, *31. Telekomunikacioni forum TELFOR*, Beograd, 21-22 November, 2023
2. Lazić I., Jakovljević N., Rapaić M., Boban (Konstantinović) J., Lončar-Turukalo T.: Evaluation of deep learning techniques for automatic lesion segmentation in mammography images, *16. MEDICON Medditeranian Conf. On Medical and Biological Engineering and Computing*, Sarajevo: Springer, 14-16 September, 2023, pp. 684-695, ISBN 978-3-031-49062-0
3. Senjak Pejić M., Terzić M., Stanojević D., Peško I., Petrović (Đogo) M., Kapetina M., Mučenski V.: ESTIMATING CONCRETE QUANTITIES USING AI-BASED MODELS FOR RECYCLING AND REDUCING CO2 EMISSIONS, *16. iNDiS*, Novi Sad, 16-17 November, 2023, pp. 429-550, ISBN 987-86-6022-615-2
4. Todorović I., Rapaić M., Vekić M., Todorović I.: Decentralized Goal Function-Based Control of DGs in Microgrid Applications, *15. IEEE PowerTECH Conference*, Beograd: IEEE, 25-29 June, 2023
5. Vekić M., Todorović I., Rapaić M., Todorović I., Grabić S., Bašić M.: Secondary and Primary Goal-Function-Based Control in Inverter-Interfaced Microgrids, *22. International Symposium POWER ELECTRONICS Ee*, Novi Sad: IEEE, 25-28 October, 2023

6. Vukmirović A., Jovišić N., Ilić S., Vukmirović S., Mihajlović I.: MACHINE LEARNING-BASED ANALYSIS OF NITROGEN REMOVAL IN A WASTEWATER TREATMENT PLANT, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical faculty "Mihajlo Pupin" Zrenjanin, 5-6 October, 2023, pp. 398-403, ISBN 978-86-7672-368-3
7. Vukmirović A., Jovišić N., Ilić S., Vukmirović S., Mihajlović I.: ASSESSMENT OF WATER QUALITY PARAMETERS CORRELATION IN WWTP FOR PREDICTION OF NUTRIENT REMOVAL, 1. *FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences, University of Novi Sad, 12-15 September, 2023, pp. 267-272, ISBN 978-86-6022-621-3
8. Vukmirović A., Obrovski B., Vukmirović S., Mihajlović I.: APPLICATION OF STATISTICAL METHODS FOR THE ANALYSIS OF WASTEWATER TREATMENT PLANT EFFICIENCY, 30. *International Conference Ecological Truth and Environmental Research*, Stara planina: University of Belgrade, Technical Faculty in Bor, 20-23 June, 2023, pp. 247-251, ISBN 978-86-6305-137-9

**Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Vukmirović A., Jovišić N., Ilić S., Vukmirović S., Mihajlović I.: APPLICATION OF ARTIFICIAL INTELLIGENCE IN WASTEWATER TREATMENT: CHALLENGES AND OPPORTUNITIES, 3. *DIFENEW International Student Conference*, Novi Sad, 5 December, 2023, pp. 72-72, ISBN 978-86-6022-632-9

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Jovičić G., Kanović Ž., Šokac M., Santoši Ž., Mitrović S., Šimunović G., Vukelić Đ.: Modelling of surface roughness and tool wear during the turning of inconel 601 alloy using artificial neural networks, 14. *International Scientific Conference ETIKUM*, Novi Sad: Faculty of Technical Sciences, 7-9 Decembar, 2023, pp. 29-32, ISBN 978-86-6022-618-3

**Spisak rezultata M71 - Odbranjena doktorska disertacija**

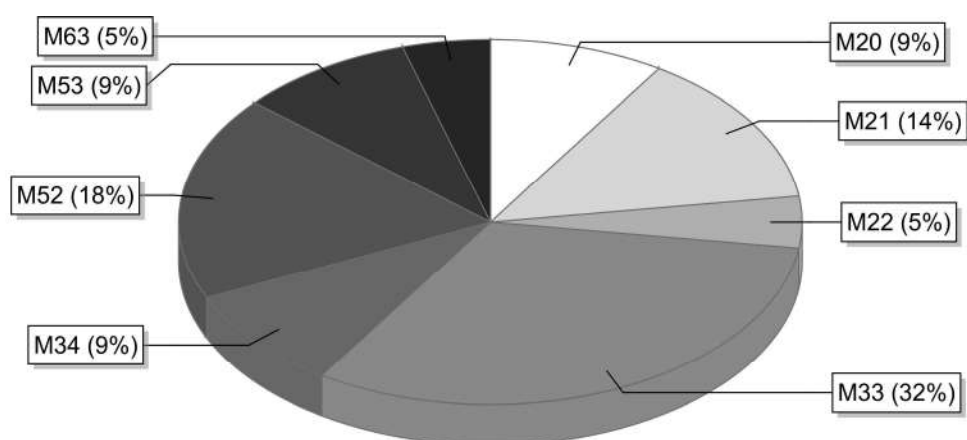
1. Kamenko I.: Automatsko podešavanje parametara PID regulatora zasnovna na rasplinutoj logici sa primenom u automatizaciji stambeno-poslovnih objekata, Novi Sad, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za sisteme, signale i upravljanje

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	7
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Rad u časopisu nacionalnog značaja	M52	4
Rad u naučnom časopisu	M53	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Rapaić M., Turkulov V., Malti R.: A novel approach to stability analysis of a wide class of irrational linear systems, *Fractional Calculus and Applied Analysis*, 2023, Vol. 26, pp. 70-90, ISSN 1311-0454
2. Tomašević O.: The FeatureCloud Platform for Federated Learning in Biomedicine: Unified Approach, Matschinske et al., 2023, *Journal of Medical Internet Research*, 2023, Vol. 25, ISSN 1438-8871

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Gašparić F., Jorgovanović N., Hofer C., Russold M., Koppe M., Stanišić D., Došen S.: A Novel Sensory Feedback Approach to Facilitate Both Predictive and Corrective Control of Grasping Force in Myoelectric Prostheses, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 2023, Vol. 31, pp. 4492-4503, ISSN 1558-0210
2. Jorgovanović N., Garenfeld M., Štrbac M., Dideriksen J., Došen S.: Closed-loop control of a multifunctional myoelectric prosthesis with full-state anatomically congruent electrotactile feedback, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 2023, Vol. 31, pp. 2090-2100, ISSN 1558-0210
3. Radulović A., Sladić D., Govedarica M., Raičević D.: Using LADM and BIM for property and tourist taxation in the municipality of Bar, Montenegro, *Land Use Policy*, 2023, Vol. 131, No. 106715, pp. 1-11, ISSN 0264-8377

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Gašparić F., Jorgovanović N., Hofer C., Russold M., Koppe M., Stanišić D., Došen S.: Nonlinear Mapping From EMG to Prosthesis Closing Velocity Improves Force Control With EMG Biofeedback, *IEEE Transactions on Haptics*, 2023, Vol. 16, No. 3, pp. 379-390, ISSN 2329-4051

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Blažić M., Sladić D., Ognjenović V., Berković I., Vignjević K.: AI and Tracking Data Exchanges on Maps , *13. International conference on Applied Internet and Information Technologies*, Bitola: University "St. Kliment Ohridski" - Bitola, Faculty of Information and Communication Technologies - Bitola, Republic of North Macedonia , 13 October, 2023, pp. 134-140, ISBN 978-608-5003-03-7
2. Knežev M., Živković A., Mladenović C., Marinković D., Ilić V., Moravec M.: Finite element and experimental modal analysis of high speed spindle, *16. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: Faculty of Mechanical Engineering University of Banja Luka, 1-2 June, 2023, pp. 60-63, ISBN 978-99976-11-04-8
3. Krstić V., Petrović V., Borisov M., Ilić Z.: Creation of 3D models based on LiDAR data, *11. International Scientific Conference - Technics. Technologies. Education. Safety.*, Borovets, 5-8 June, 2023, ISBN 2545-4439
4. Ruskovski I., Gavrilović M., Govedarica M.: Performance and Accuracy Analysis of Leica P20 Scanner and iPhone LiDAR Sensor in Scanning of Cultural Heritage Objects, *16. iNDiS*, Novi Sad, 16-17 November, 2023
5. Sladić D., Radulović A., Govedarica M.: Mass Property Valuation in Serbia, *11. 11th International FIG Workshop on LADM & 3D LA*, Gavle: FIG, 11-13 October, 2023, pp. 289-310
6. Šarkanović Bugarinović M., Govedarica M., Ristić A., Bugarinović Ž., Ruskovski I.: Analysis and Application of Terrestrial Laser Scanning Algorithms for Dam Monitoring, *16. iNDiS*, Novi Sad, 16-17 November, 2023, pp. 151-159, ISBN 978-86-6022-615-2
7. Šarkanović Bugarinović M., Ristić A., Bugarinović Ž., Radulović A., Sladić D., Govedarica M.: The Use of Augmented Reality Models in the Serbian Utility Network Cadastre, *11. 11th International FIG Workshop on LADM & 3D LA*, Gavle, 11-13 October, 2023, pp. 11-13

### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Gavrilović M., Jovanović D., Govedarica M.: Object detection in precision viticulture based on UAV images and artificial intelligence, *Book of abstracts - The Second Serbian International Conference on Applied Artificial Intelligence*, 2023, Vol. 1, No. 1, ISSN 978-86-81037-77-5, *2. The Second Serbian International Conference on Applied Artificial Intelligence (SICAAI)*, Kragujevac: University of Kragujevac and Serbian Academy of Sciences and Arts, 19-20 May, 2023, ISBN 978-86-81037-77-5
2. Gavrilović M., Ruskovski I., Jovanović D.: Monitoring Land Surface Temperature Change with Landsat Images in Region Novi Sad, *Abstract Book - INTERNATIONAL CONFERENCE on HYDRO-CLIMATE EXTREMES and SOCIETY*, 2023, Vol. 1, No. 1, pp. 13-13, ISSN 978-86-7031-622-5, *2. International Conference on Hydro-Climate Extremes and Society*, Novi Sad: Faculty of Sciences, Department of Geography, Tourism and Hotel Management, 27-29 June, 2023, pp. 13-13, ISBN 978-86-7031-622-5, UDK:



551.583 (048.3)

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Borisov M., Vrtunski M., Petrović V., Bojović B., Novak T.: Comparative analysis of the ellipsoid approximation with the sphere, Zbornik radova Građevinskog fakulteta, 2023, No. 44, pp. 87-103, ISSN 0352-6852, UDK: 528.2
2. Knežev M., Živković A., Marinković D., Mladenović C., Calin A., Ilić V.: Modal analysis of motorized spindle using finite element method, Journal of Production Engineering, 2023, Vol. 26, No. 1, pp. 9-12, ISSN 1821-4932
3. Krnić Đ., Vujinović M., Bugarinović Ž., Ristić A., Budimirov T.: Detection of fibre optic cables at urban area using GPR and EML, Izgradnja, 2023, Vol. 77, No. 1-4/2023, pp. 16-20, ISSN 0350-5421
4. Petrović V., Bojović B., Borisov M., Rakićević N., Đurić T.: ANALYSIS AND APPLICATION OF DTM IN PRECISION AGRICULTURE, Izgradnja, 2023, Vol. 77, No. 5-8, pp. 140-149, ISSN 0350-5421, UDK: 551.4:528.94):631

**Spisak rezultata M53 - Rad u naučnom časopisu**

1. Cimballejić I., Borisov M., Petrović M., Petrović V., Ilić Z.: Primjena GIS-a u upravljanju rizikom od prirodnih katastrofa, Geodetski Glasnik, 2023, Vol. 54, pp. 78-92, ISSN 2233-1786, UDK: 504.4:528.94:519.68
2. Tijedorović B., Bugarinović Ž., Petrović V., Borisov M., Šarkanović Bugarinović M.: Izrada tematskih karata primenom R programskog jezika, Izgradnja, 2023, Vol. 77, No. 9-12, pp. 209-219, ISSN 0350-5421, UDK: 528.92:004.42

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

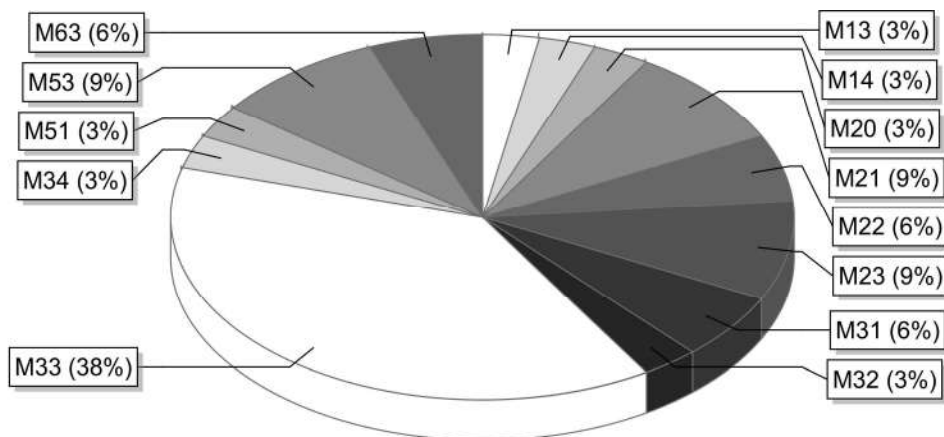
1. Marinković D., Knežev M., Živković A., Mladenović C., Mejić L.: Analiza dimaničkih karakteristika držača alata za obradu struganjem, 39. Savetovanje proizvodnog mašinstva Srbije - SPMS, Novi Sad, 26-27 Oktobar, 2023, pp. 284-287, ISBN 978-86-6022-610-7

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za primenjene računarske nauke

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	3
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	13
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	3
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	2



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M13 - Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja**

1. Simić D., Banković Z., Villar J., Calvo-Rolle J., Simić S., Simić S.: The Analysis of Hybrid Brain Storm Optimisation Approaches in Feature Selection, Cham, Springer, Cham; Springer-Verlag Berlin Heidelberg, 2023, str. 469-480, ISBN 978-3-031-40724-6, UDK: ISSN: 0302-9743, Vol: 14001; Part of the Lecture Notes in Computer Science book series (LNAI, volume 14001)

### **Spisak rezultata M14 - Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja**

1. Simić D., Calvo-Rolle J., Villar J., Ilin V., Simić S., Simić S.: An Approach of Optimisation in Last Mile Delivery, Cham, Springer, Cham; Springer-Verlag Berlin Heidelberg, 2023, str. 311-320, ISBN 978-3-031-42535-6, UDK: ISSN: 2367-3370; Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 750)

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Vještica M., Dimitrieski V., Pisarić M., Kordić (Aleksić) S., Ristić S., Luković I.: Production processes modelling within digital product manufacturing in the context of Industry 4.0, International Journal of Production Research, 2023, Vol. 61, No. 19, pp. 6271-6290, ISSN 0020-7543

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Cvejić (Gvozdenović) S., Lazić O., Jocković M., Kupusinac A., Doroslovački K., Gvozdenac S., Jocić S., Miladinović (Vasić) D.: Oil yield prediction for sunflower hybrid selection using different machine learning algorithms, Scientific Reports, 2023, Vol. 13, No. 1, ISSN 2045-2322
2. Ilin V., Simić D., Simić S., Simić S., Saulić N., Jose Luis C.: A hybrid genetic algorithm, list-based simulated annealing algorithm, and different heuristic algorithms for travelling salesman problem, Logic Journal of the IGPL / Interest Group in Pure and Applied Logics, 2023, Vol. 31, No. 4, pp. 602-617, ISSN 1367-0751
3. Simić S., Sakač S., Banković Z., Villar J., Calvo-Rolle J., Simić S., Simić D.: A three-stage hybrid clustering system for diagnosing children with primary headache disorder, Logic Journal of the IGPL / Interest Group in Pure and Applied Logics, 2023, Vol. 31, No. 2, pp. 300-313, ISSN 1367-0751, UDK: On-line: 04 March 2022

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Krsman A., Stajić D., Baturan B., Stanković M., Kupusinac A., Kadić U., Pantelić M., Gvozdenović Lj., Pop-Trajković S., Simić D., Živadinović A., Živadinović L.: Correlation between increased maternal body mass index and pregnancy complications, European Review for Medical and Pharmacological Sciences, 2023, Vol. 27, No. 8, pp. 3508-3513, ISSN 1128-3602
2. Obradović M., Mišić S., Vasiljević I., Ivetić D., Obradović R.: The Methodology of Virtualizing Sculptures and Drawings: A Case Study of the Virtual Depot of the Gallery of Matica Srpska, Electronics (Basel), 2023, Vol. 12, No. 19, ISSN 2079-9292

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Antanasijević D., Vještica M., Grubić-Nešić L., Dimitrieski V., Pisarić M., Ristić S.: An Organizational Perspective of Human Resource Modeling, IPSI Transactions on Advanced Research, 2023, Vol. 19, No. 2, pp. 64-75, ISSN 1820-4511
2. Savić G., Segedinac M., Čeliković M., Luković I.: A Meta-model for Key Performance Indicators in Higher Education, IPSI Transactions on Advanced Research, 2023, Vol. 19, No. 2, pp. 76-91, ISSN 1820-4511
3. Tihi N., Popov S.: Selection of the best arima models for urban drought prediction, Fresenius Environmental Bulletin, 2023, Vol. 32, No. 6, pp. 2564-2572, ISSN 1018-4619

### **Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Gajić D.: Blockchain Applications in the Energy Sector, 10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Istočno Sarajevo: ETRAN Society, 5-8 June, 2023, ISBN 978-86-7466-970-9
2. Gojić G., Vincan V., Kundačina O., Mišković D., Dragan D.: Non-adversarial Robustness of Deep Learning Methods for Computer Vision, 10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Istočno Sarajevo, 5-8 June, 2023

### **Spisak rezultata M32 - Predavanje po pozivu sa međunarodnog skupa štampano u izvodu**

1. Gajić D.: Blockchain Applications in the Energy Sector, 10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Istočno Sarajevo: ETRAN Society, 5-8 June, 2023, ISBN 978-86-7466-970-9

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Anišić H., Dragan D., Gajić D., Petrović V.: Image-based Questionnaires on Mobile Devices – User Interaction Design, 10. *International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 June, 2023, ISBN 979-8-3503-0711-5
2. Blažić M., Ivetić D., Popov S., Berković I., Ognjenović V.: AN OVERVIEW OF KPI AND METRICS IN CLOUD SERVICES, 1. *Engineering Conference*, Budva: Visoka tehnička škola strukovnih studija u Novom Sadu, 28-30 August, 2023, pp. 134-139, ISBN 978-86-6211-143-2
3. Brestovački L., Stanisavljević A., Vasiljević-Toskić M., Turović R., Katić V.: Test Bench for Evaluation of Machine Learning Algorithms Applied to PQ Parameters Classification, 22. *International Symposium POWER ELECTRONICS Ee*, Novi Sad, 25-28 October, 2023, ISBN 979-8-3503-4317-5
4. Gaborov M., Stojanov Ž., Popov S., Kavalić (Zakin) M., Vecštejn I.: A conceptual model of agile meetings' problems and their relationships with organizational issues in IT industry, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 March, 2023, pp. 1-6
5. Gaborov M., Stojanov Ž., Popov S., Kovač (Milosavljev) D.: A Conceptual Model of Agile Meetings' Problems and Their Relationships with Project Issues in IT Industry, 5. *International Workshop on Information, Computation, and Control Systems for Distributed Environments (ICCS-DE)*, Irkutsk, 3-7 July, 2023, pp. 58-65, ISBN 978-5-6041814-4-7
6. Gaborov M., Stojanov Ž., Popov S.: A Model of Problems Related to Scrum Team Communication in Meetings and their Impact on Job Satisfaction, 13. *International conference on Applied Internet and Information Technologies*, Bitola, 13 October, 2023, pp. 271-278, ISBN 978-608-5003-03-7
7. Gladić D., Petrovački J., Ristić S., Stefanović D., Čeliković M.: The Role of Big Data in Industry 4.0: A Systematic Literature Review, 13. *International conference on information society and technology*, Kopaonik: Information Society of Serbia - ISOS, 12-15 March, 2023, pp. 131-142, ISBN 978-86-85525-24-7
8. Kundačina O., Gojić G., Čosović M., Mišković D., Vukobratović D.: Supporting Future Electrical Utilities: Using Deep Learning Methods in EMS and DMS Algorithms, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina, 15-17 March, 2023
9. Lalić M., Obrenović N., Atac S., Bortolomiol S., Marko O., Brdar S., Crnojević V., Luković I.: Multi-Objective Metaheuristic Solution Approach for the Crop Plant Scheduling Problem, 9. *International Conference on Metaheuristics and Nature Inspired Computing META*, Marakesh, 1-4 November, 2023, pp. 198-200
10. Mihajlović S., Ivetić D., Berković I., Dobrić D.: Use of Python and OpenCV in thermal image processing, 13. *International conference on Applied Internet and Information Technologies*, Bitola, 13 October, 2023, pp. 96-101, ISBN 978-608-5003-03-7
11. Popović Lj., Popov S., Čosić Đ., Vranić (Novaković) T.: Internet of Medical Things – Based Health Risk Insurance Modeling, 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, 5-6 October, 2023, pp. 314-319, ISBN 978-86-6022-623-7
12. Popović Lj., Vranić (Novaković) T., Lazić C., Popov S., Čosić Đ.: Vulnerability Assessment and Spatio-Temporal Visualization, 1. *Engineering Conference*, Budva: Fakultet tehničkih nauka i Visoka tehnička škola strukovnih studija u Novom Sadu, 28-30 August, 2023, pp. 280-284, ISBN 978-86-6022-594-0
13. Tihi N., Popov S.: Application of Holt-Winters Exponential smoothing method in urban drought prediction, 1. *Engineering Conference*, Budva, 28-30 August, 2023, pp. 169-175, ISBN 978-86-6211-143-2

### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Popović Lj., Vranić (Novaković) T., Lazić C., Popov S.: Technological Aspects of the Temporal-Space Visualization of the Disease Outbreak Vulnerability Assessment Model, 2. *INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY*, Herceg Novi: Faculty of Management Herceg Novi, 31-3 May, 2023, pp. 77-77, ISBN 978-9940-611-05-7

### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Gaborov M., Stojanov Ž., Popov S.: Thematic analysis and development of a conceptual framework for agile meetings' problems, *Journal of Engineering Management and Competitiveness (JEMC)*, 2023, Vol. 13, No. 1, pp. 61-70, ISSN 2334-9638

### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Antanasijević D., Ristić S., Vještica M., Stefanović D., Dimitrieski V., Pisarić M.: A PROTOTYPE OF A DOMAIN-SPECIFIC MODELING LANGUAGE FOR FORMAL SPECIFICATION OF A HUMAN WORKER, *Acta Electrotechnica et Informatica*, 2023, Vol. 23, No. 2, pp. 33-40, ISSN 1335-8243

2. Hrnjak J.: SECURADSL–НАМЕНСКИ ЈЕЗИК ЗА ПОДРШКУ БРЗОГ УСПОСТАВЉАЊА БЕЗБЕДНОСНИХ АСПЕКТА У РАДНОМ ОКВИРУ SPRING, Zbornik radova Fakulteta tehničkih nauka, 2023, Vol. 38, No. 12, pp. 1695-1698, ISSN 0350-428X, UDK: 004.9
3. Vučinić M.: НАМЕНСКИ ЈЕЗИК ЗА МОДЕЛОВАЊЕ МИГРАЦИЈЕ РЕЛАЦИОНЕ БАЗЕ ПОДАТАКА У БАЗУ ПОДАТАКА ЗАСНОВАНУ НА ДОКУМЕНТИМА, Zbornik radova Fakulteta tehničkih nauka, 2023, Vol. 38, No. 12, pp. 1687-1690, ISSN 0350-428X, UDK: 004.9

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

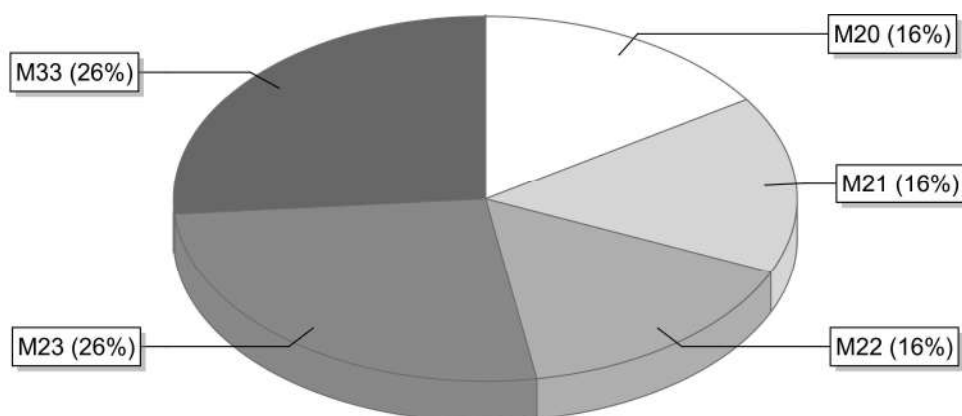
1. Blažić M., Ivetić D., Popov S., Berković I., Ognjenović V.: An Overview of analytical dashboards in data-science and their software architecture, 29. YU INFO, Kopaonik: Informaciono društvo Srbije, 12-15 Mart, 2023, pp. 26-31, ISBN 978-86-85525-29-2
2. Radović L., Matkovski M., Vrbaški D., Kupusinac A.: POTENCIJAL ZA KORIŠĆENJE CHATGPT MODELA U NASTAVNOM PROCESU IZ OBLASTI PROGRAMIRANJA, 29. Trendovi razvoja: Univerzitet pred novim izazovima, Vrnjačka Banja, 8-11 Februar, 2023, pp. 369-372, ISBN 978-86-6022-554-4

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za informatiku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	5
Saopštenje sa međunarodnog skupa štampano u celini	M33	5



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Dubljević S., Tepavčević B., Markoski B., Anđelković A.: Computational BIM tool for automated LEED certification process, *Energy and Buildings*, 2023, Vol. 292, No. 113168, 1 August 2023, pp. 1-12, ISSN 0378-7788
2. Škipina M., Slivka J., Luburić N., Kovačević A.: Automatic detection of Feature Envy and Data Class code smells using machine learning, *Expert Systems with Applications*, 2023, ISSN 0957-4174
3. Vojnović N., Vidaković J., Vidaković M.: Multi-Threaded Power Flow of Large-Scale Active Multiphase Distribution Networks, *Expert Systems with Applications*, 2023, Vol. 227, No. 120313, pp. 1-15, ISSN 0957-4174

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Ivanović L., Philipp B., Jovanovic M., Ivanović D.: Correlation between journal metrics-based academic evaluation and researchers' ethics, *Accountability in Research: Policies and Quality Assurance*, 2023, ISSN 0898-9621
2. Vlajkov V., Danilov (Pajčin) I., Vučetić (Petrović) S., Anđelić S., Loc M., Grahovac M., Grahovac (Ranković) J.: Bacillus-Loaded Biochar as Soil Amendment for Improved Germination of Maize Seeds, *Plants*, 2023, Vol. 12, No. 5, ISSN 2223-7747
3. Vojnović N., Vidaković J., Vidaković M.: Decoupled load flow for large-scale multiphase distribution networks, *Sustainable Energy, Grids and Networks*, 2023, Vol. 34, No. 101049, pp. 1-15, ISSN 2352-4677

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Perišić A., Perišić I., Lazić M., Perišić B.: The foundation for future education, teaching, training, learning, and performing infrastructure - The open interoperability conceptual framework approach, *Heliyon*, 2023, Vol. 9, No. 6, pp. 1-16, ISSN 2405-8440
2. Segedinac M., Savić G., Zeljković I., Slivka J., Konjović Z.: Assessing code readability in Python programming courses using eye-tracking, *Computer Applications in Engineering Education*, 2023, ISSN 1061-3773, UDK: 1099-0542
3. Zarić M., Arsovski S., Markoski B., Vasiljević P., Premčevski V.: An approach to the semantic representation of the local government strategic planning process: Ontology driven simulation method for assessing economic impacts, *Applied Sciences*, 2023, Vol. 13, No. 3:1258, ISSN 2076-3417

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Marjanović J., Dalčeković N., Sladić G.: Blockchain-based model for tracking compliance with security requirements, *Computer Science and Information Systems*, 2023, Vol. 20, No. 1, pp. 359-380, ISSN 1820-0214
2. Matijević Gostojić M., Vuković Ž.: A knowledge-based system for supporting the soundness of digital forensic investigations, *Forensic Science International-Digital Investigation*, 2023, Vol. 46, ISSN 2666-2817
3. Savić G., Segedinac M., Čeliković M., Luković I.: A Meta-model for Key Performance Indicators in Higher Education, *IPSI Transactions on Advanced Research*, 2023, Vol. 19, No. 2, pp. 76-91, ISSN 1820-4511
4. Savić G., Segedinac M., Konjović Z., Vidaković M., Dutina R.: Towards a Domain-Neutral Platform for Sustainable Digital Twin Development. *Sustainability, Sustainability*, 2023, Vol. 15, No. 13612, ISSN 2071-1050
5. Slivka J., Luburić N., Prokić S., Grujić K., Kovačević A., Sladić G., Vidaković D.: Towards a systematic approach to manual annotation of code smells, *Science of Computer Programming*, 2023, ISSN 0167-6423

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Dorić L., Luburić N., Slivka J., Kovačević A.: Understanding the Teamwork Challenges of Software Engineering Students, *46. MIPRO*, Opatija, 22-26 May, 2023
2. Nikolić D., Ivanović D.: The Architecture of Citizen Science Open Data Repository Based on Version Control Platforms, *12. International Conference on Information Science and Technology (ICIST)*, Kopaonik, 13-16 March, 2022, pp. 318-325, ISBN 978-3-031-50755-7
3. Prokić S., Luburić N., Slivka J., Kovačević A.: Identification of Code Properties that Support Code Smell Analysis, *46. MIPRO*, Opatija, 22-26 May, 2023
4. Ranković T.: Enforcing Zero Trust in Distributed Cloud Deployments, *ITRO - a journal for information*

technology, education development and teaching methods of technical and natural sciences, 2023, ISSN 2217-7949, 14. *ITRO - International Conference on Information Technology and Development of Education*, Zrenjanin, 24 November, 2023

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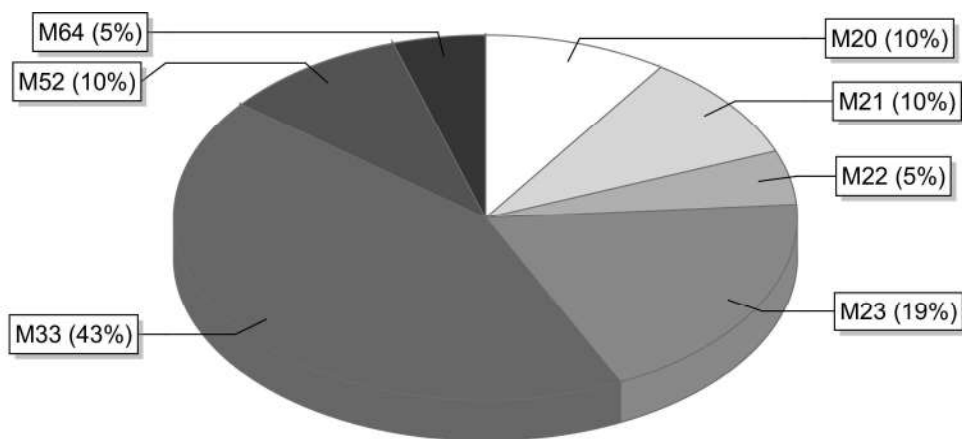


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za računarsku tehniku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	4
Saopštenje sa međunarodnog skupa štampano u celini	M33	9
Rad u časopisu nacionalnog značaja	M52	2
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Gradojević N., Kukolj D., Adcock R., Đaković V.: Forecasting Bitcoin with technical analysis: A not-so-random forest?, *International Journal of Forecasting*, 2023, Vol. 39, No. 1, pp. 1-17, ISSN 0169-2070
2. Kenjić D., Živkov D., Antić M.: Automated data transfer from ADAS to Android-based IVI domain over SOME/IP, *IEEE Transactions on Intelligent Vehicles*, 2023, Vol. 8, No. 4, pp. 3166-3177, ISSN 2379-8858

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Kenjić D., Antić M.: Connectivity Challenges in Automotive Solutions, *IEEE Consumer Electronics Magazine*, 2023, Vol. 12, No. 5, pp. 53-59, ISSN 2162-2248
2. Mastilović J., Kukolj D., Kevrešan Ž., Ostojić G., Kovač R., Đerić M., Ubiparip Samek D.: Emerging Perspectives of Blockchains in Food Supply Chain Traceability Based on Patent Analysis (<https://doi.org/10.3390/foods12051036>), *Foods*, 2023, Vol. 12, No. 5, ISSN 2304-8158

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Kaštelan I., Popović M., Bjelica M.: A Learning Model for Lifelong Education of Computer Engineers, *IEEE Access*, 2023, Vol. 11, pp. 1-13, ISSN 2169-3536

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Banovic R., Kukolj D., Bašičević I.: A Hybrid DASH Adaptation Algorithm Using Takagi-Sugeno-Kang Fuzzy Model, *Advances in Electrical and Computer Engineering*, 2023, Vol. 23, No. 1, pp. 3-10, ISSN 1582-7445
2. Busch C., Chlebus B., Herlihy M., Popović M., Poudel P., Sharma G.: Flexible Scheduling of Transactional Memory on Trees, *Theoretical Computer Science*, 2023, Vol. 978, pp. 1-16, ISSN 0304-3975
3. Kovačević J., Uroš R., Đukić M., Novković T.: Smart Multi-Agent Framework for Automated Audio Testing, *Elektronika Ir Elektrotehnika*, 2023, Vol. 29, No. 1, pp. 59-68, ISSN 1392-1215
4. Popović M., Popović M., Kordić B., Zhu H.: Complete Formal Verification of the PSTM Transaction Scheduler, *Computer Science and Information Systems*, 2023, Vol. 20, No. 1, pp. 307-327, ISSN 1820-0214

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Bašičević I.: An analysis of the TR069 (CWMP) protocol, *46. MIPRO*, Opatija: IEEE, 22-26 May, 2023, pp. 460-465
2. Jezdimirovic J., Pekez N., Kovačević J.: Security enhancement of LSB-based audio steganography method, *8. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad, 29-31 May, 2023
3. Kukolj D., Mastilović J., Kevrešan Ž., Kovač R., Ostojić G., Stankovski S., Nemet S.: Trends and Applications in Patent Databases for the Blockchain Technology on Use Case : Products Traceability in Food Supply Chain, *22. International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023, pp. 1-4
4. Popović M., Đukić M., Bašičević I., Popović M.: DPSTM-PS Based Edge Network with MicroPython Based IoTs, *31. Telekomunikacioni forum TELFOR*, Beograd, 21-22 November, 2023, pp. 1-4
5. Popović M., Popović M., Kaštelan I., Đukić M., Bašičević I.: Developing Elementary Federated Learning Algorithms Leveraging the ChatGPT, *31. Telekomunikacioni forum TELFOR*, Beograd, 21-22 November, 2023, pp. 1-4
6. Popović M., Popović M., Kaštelan I., Đukić M., Bašičević I.: Federated Learning Algorithms Development Paradigm Based on PTB-FLA, *8. Conference on the Engineering of Computer Based Systems (ECBS)*, Vesteros: Springer, 16-18 October, 2023, pp. 26-41, ISBN 978-3-031-49251-8
7. Popović M., Popović M., Kaštelan I., Đukić M., Gilezan S.: A Simple Python Testbed for Federated Learning Algorithms, *8. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad, 29-31 May, 2023, pp. 1-6
8. Prokić I., Gilezan S., Prokić S., Popović M., Popović M., Kaštelan I.: Correct orchestration of Federated Learning generic algorithms: formalisation and verification in CSP, *8. Conference on the Engineering of Computer Based Systems (ECBS)*, Vesteros: Springer, 16-18 October, 2023, pp. 274-288, ISBN 978-3-031-49251-8
9. Stojanović D., Četić N., Kocić J., Pavković B.: Improving Lane Annotation in Autonomous Driving Data Sets with Classical Computer Vision Techniques, *8. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad: IEEE, 29-31 May, 2023

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Kukulj D., Ostojić G., Stankovski S., Nemet S., Mastilović J., Kevrešan Ž., Ubiparip Samek D., Đerić M.: Modelling of the Patent Portfolio Technology Space: IPC Codes Clustering of Blockchain Applications in the Food Supply Chain, Journal of Mechatronics, Automation and Identification Technology – JMAIT, 2023, Vol. 8, No. 1, pp. 1-6, ISSN 2466-3603
2. Rodić D., Gostimirović M., Sekulić M., Savković B., Aleksić A., Kukulj D.: Analys of defect layer in electrical discharge machining of non-conductive ceramic, Journal of Production Engineering, 2023, Vol. 26, No. 1, pp. 24-27, ISSN 1821-4932

**Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

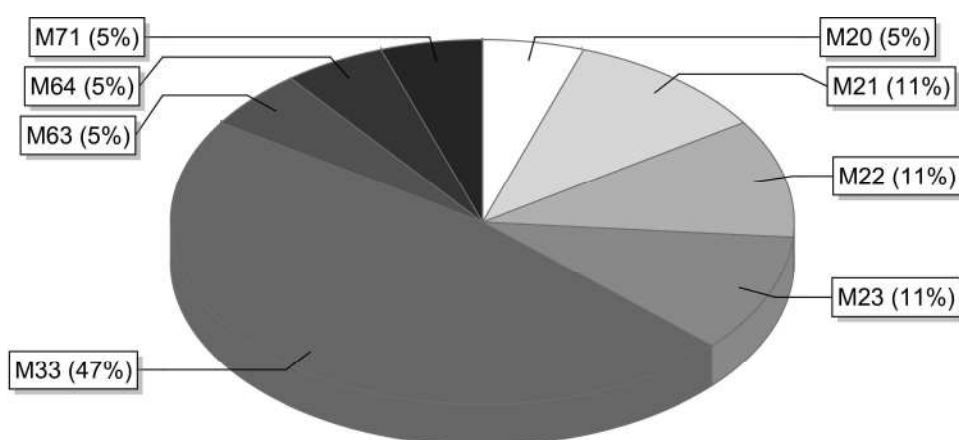
1. Prokić I., Gilezan S., Prokić S., Popović M., Popović M., Kaštelan I.: Orkestracija algoritama federativnog učenja iz ugla formalizacije i verifikacije, 1. Konferencija "Veštačka inteligencija", Beograd: SANU, 26-27 Decembar, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za računarske komunikacije

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	9
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
Odbranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Kenjić D., Živkov D., Antić M.: Automated data transfer from ADAS to Android-based IVI domain over SOME/IP, *IEEE Transactions on Intelligent Vehicles*, 2023, Vol. 8, No. 4, pp. 3166-3177, ISSN 2379-8858

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Kenjić D., Antić M.: Connectivity Challenges in Automotive Solutions, *IEEE Consumer Electronics Magazine*, 2023, Vol. 12, No. 5, pp. 53-59, ISSN 2162-2248
2. Pjevalica N., Pjevalica V., Petrović N.: The Consumer and the Power Grid: Evolution of Problems and Solutions, *IEEE Consumer Electronics Magazine*, 2023, Vol. 12, No. 5, pp. 24-31, ISSN 2162-2248

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Kaštelan I., Popović M., Bjelica M.: A Learning Model for Lifelong Education of Computer Engineers, *IEEE Access*, 2023, Vol. 11, pp. 1-13, ISSN 2169-3536
2. Vuković M., Miškić M., Kaštelan I., Lale S., Forcan M., Vuković G., Ikić M.: Renewable Energy-powered Traffic Signalization as a Step to Carbon-neutral Cities (The Case of Western Balkan), *Sustainability*, 2023, Vol. 15, No. 7, ISSN 2071-1050

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Kovačević J., Uroš R., Đukić M., Novković T.: Smart Multi-Agent Framework for Automated Audio Testing, *Elektronika I Ir Elektrotehnika*, 2023, Vol. 29, No. 1, pp. 59-68, ISSN 1392-1215
2. Krunic M.: Documentation as Code in Automotive System/Software Engineering, *Elektronika I Ir Elektrotehnika*, 2023, ISSN 1392-1215

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Bošković O., Kokinović A., Kenjić D., Kaštelan I.: A proposal of Android services generator for inter-connection with ADAS, 8. *IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad: IEEE, 29-31 May, 2023, pp. 23-28, ISBN 979-8-3503-4772-2
2. Jezdimirovic J., Pekez N., Kovačević J.: Security enhancement of LSB-based audio steganography method, 8. *IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad, 29-31 May, 2023
3. Pijetlović S., Kaštelan I., Subotić M., Pjevalica N.: Improving finite-difference time-domain memory bandwidth by using block floating-point arithmetic, 31. *Telekomunikacioni forum TELFOR*, Beograd: IEEE, 21-22 November, 2023, pp. 1-7, ISBN 979-8-3503-0313-1
4. Popović M., Popović M., Kaštelan I., Đukić M., Bašičević I.: Developing Elementary Federated Learning Algorithms Leveraging the ChatGPT, 31. *Telekomunikacioni forum TELFOR*, Beograd, 21-22 November, 2023, pp. 1-4
5. Popović M., Popović M., Kaštelan I., Đukić M., Bašičević I.: Federated Learning Algorithms Development Paradigm Based on PTB-FLA, 8. *Conference on the Engineering of Computer Based Systems (ECBS)*, Vesteros: Springer, 16-18 October, 2023, pp. 26-41, ISBN 978-3-031-49251-8
6. Popović M., Popović M., Kaštelan I., Đukić M., Gilezan S.: A Simple Python Testbed for Federated Learning Algorithms, 8. *IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad, 29-31 May, 2023, pp. 1-6
7. Prokić I., Gilezan S., Prokić S., Popović M., Popović M., Kaštelan I.: Correct orchestration of Federated Learning generic algorithms: formalisation and verification in CSP, 8. *Conference on the Engineering of Computer Based Systems (ECBS)*, Vesteros: Springer, 16-18 October, 2023, pp. 274-288, ISBN 978-3-031-49251-8
8. Stojanović D., Četić N., Kocić J., Pavković B.: Improving Lane Annotation in Autonomous Driving Data Sets with Classical Computer Vision Techniques, 8. *IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad: IEEE, 29-31 May, 2023
9. Vuković M., Kaštelan I., Miškić M.: Traffic Light Signalization based on Renewable Energy Sources: Feasibility and Challenges, 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad, 5-6 October, 2023, pp. 448-453

### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Vuković M., Kaštelan I., Miškić M.: Conventional Traffic Light Signalization vs Traffic Light Signalization Based on Renewable Energy Sources: Feasibility and Challenges, 18. *Road Safety in Local Community*,

Kopaonik, 19-22 April, 2023, pp. 64-70

**Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

1. Prokić I., Gilezan S., Prokić S., Popović M., Popović M., Kaštelan I.: Orkestracija algoritama federativnog učenja iz ugla formalizacije i verifikacije, *1. Konferencija "Veštačka inteligencija"*, Beograd: SANU, 26-27 Decembar, 2023

**Spisak rezultata M71 - Odbranjena doktorska disertacija**

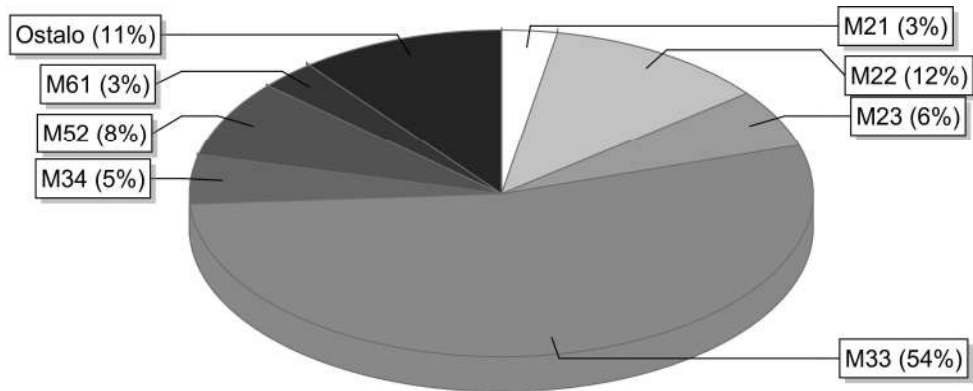
1. Milošević M.: Predlog arhitekture srednjeg sloja softvera za računarski sistem u vozilima, Novi Sad, Fakultet Tehničkih Nauka, Univerzitet u Novom Sadu, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za građevinarstvo i geodeziju

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14	M28b	1
Uređivanje nacionalnog naučnog časopisa; Uređivanje tematskih monografija	M29v	1
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	12
Rad u međunarodnom časopisu	M23	6
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	56
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	5
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	8
Rad u naučnom časopisu	M53	1
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	3
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Uređivanje zbornika saopštenja skupa nacionalnog značaja	M66	1
Odbranjena doktorska disertacija	M71	2

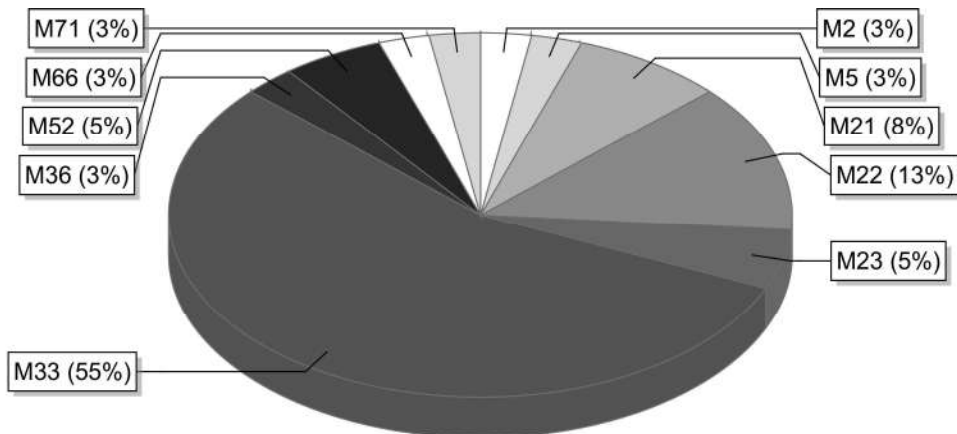


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za konstrukcije

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14	M28b	1
Uređivanje nacionalnog naučnog časopisa; Uređivanje tematskih monografija	M29v	1
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	21
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Rad u časopisu nacionalnog značaja	M52	2
Uređivanje zbornika saopštenja skupa nacionalnog značaja	M66	1
Odbranjena doktorska disertacija	M71	1





## PRODUKCIJA - REZULTATI

### **Spisak rezultata M28b - Uređivanje istaknutog međunarodnog naučnog časopisa (gost urednik) ili publikacije sa monografskim delima kategorije M14**

1. Bulajić B.: Guest Editor of Special Issue "Application of Machine Learning and Optimization Methods in Engineering Mathematics", Axioms, 2023, ISSN 2075-1680

### **Spisak rezultata M29v - Uređivanje nacionalnog naučnog časopisa; Uređivanje tematskih monografija**

1. Bulajić B.: Član uređivačkog odbora časopisa "Izgradnja", 2023

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Blagojević N., Brzev S., Petrović M., Borozan J., Bulajić B., Marinković M., Hadzima-Nyarko M., Koković V., Stojadinović B.: Residential building stock in Serbia: classification and vulnerability for seismic risk studies, Bulletin of Earthquake Engineering, 2023, ISSN 1570-761X
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3. Bulatović V., Starčev-Ćurčin A., Šešlija M., Milović (Tatomirović T.): THE IMPORTANCE OF PROPER ARRANGEMENT OF THERMAL INSULATION AND VAPOR BARRIER IN STRUCTURAL ELEMENTS, 23. International Scientific Conference VSU, Sofija: University of Structural Engineering and Architecture (VSU) "Lyuben Karavelov", 22-24 June, 2023, pp. 275-280, ISBN 1314-071X
4. Draganić (Vukoslavčević) S., Laban M., Džolev I., Cvetkovska M.: Fire resilience and building's sustainability in renovation wave, 20. International Symposium MASE, Skoplje: MASE Macedonian Association of Structural Engineers; Faculty of Civil Engineering, Skopje, 28-29 September, 2023, pp. 192-199, ISBN 978-608-66946-3-0

5. Fajfar P., Vukobratović V.: Floor Acceleration Spectra Based on Structural Dynamics, *1. Anniversary Workshop in Commemoration of the 1999 Chi-Chi and 2022 Chihshang Earthquakes*, Taipei: National Center for Research on Earthquake Engineering (NCREE), 25-27 September, 2023, pp. 182-185
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7. Ilić S., Džolev I., Laban M.: Optimal numerical model of a non-stationary heat transfer through a wall, *16. iNDiS*, Novi Sad: Departman za građevinarstvo i geodeziju, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 16-17 November, 2023, pp. 444-452, ISBN 978-86-6022-615-2
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**Spisak rezultata M36 - Uređivanje zbornika saopštenja međunarodnog naučnog skupa**

1. Trivunić M., Džolev I., Šešlija M.: 16th International Scientific Conference iNDiS 2023 "Integration, Novelty, Design, Interdisciplinarity, Sustainability", 16. *iNDiS*, Novi Sad: Departman za građevinarstvo i geodeziju, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 16-17 November, 2023, pp. 1-925, ISBN 978-86-6022-615-2

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

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2. Šešlija M., Starčev-Ćurčin A., Bulatović V.: Stabilizacija nosećeg sloja kolovozne konstrukcije puteva od drobljenog kamenog agregata, *Izgradnja*, 2023, Vol. 1, No. 1-4, pp. 46-53, ISSN 0350-5421, UDK: 625.85 (497.11)

**Spisak rezultata M66 - Uređivanje zbornika saopštenja skupa nacionalnog značaja**

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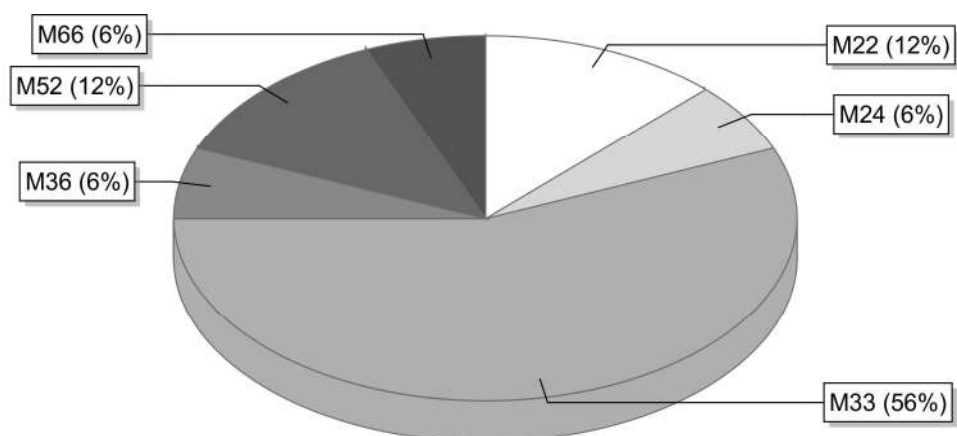
1. Živaljević V.: Ponašanje ekscentrično pritisnutih hladno-oblikovanih čeličnih elemenata sa otvorima u rebru, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2023, str. 1-303

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za geotehniku i saobraćajnice

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	9
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Rad u časopisu nacionalnog značaja	M52	2
Uređivanje zbornika saopštenja skupa nacionalnog značaja	M66	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Jovanović S., Kazimieras Zavadskas E., Stević Ž., Marinković M., Alrasheedi A., Badi I.: An Intelligent Fuzzy MCDM Model Based on D and Z Numbers for Paver Selection: IMF D-SWARA—Fuzzy ARAS-Z Model, *Axioms*, 2023, ISSN 2075-1680
2. Kired F., Šešlija M., Milović (Tatomirović T., Starčev-Ćurčin A., Bulatović V., Radović N.): Stabilization of Different Soil Types Using a Hydraulic Binder, *Buildings*, 2023, Vol. 13, No. 8, pp. 1-21, ISSN 2075-5309

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### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

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2. Krstić P., Majkić T., Milović (Tatomirović T., Marinković M.): UNCONFINED COMPRESSIVE STRENGTH OF DIFFERENT SOIL TYPES STABILIZED WITH CEMENT AND CLINOPTILOLITE MIXTURE: A REVIEW , 16. *iNDiS*, Novi Sad: Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, Novi Sad, 16-17 November, 2023, pp. 560-567, ISBN 978-86-6022-615-2
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9. Vasić M., Đogo M.: Unstable slopes on the right bank of the Danube area, 10. *Geotechnical aspects of civil engineering and earthquake engineering*, Vrnjačka Banja, 1-3 November, 2023, pp. 134-143

### **Spisak rezultata M36 - Uređivanje zbornika saopštenja međunarodnog naučnog skupa**

1. Trivunić M., Džolev I., Šešlija M.: 16th International Scientific Conference iNDiS 2023 "Integration, Novelty, Design, Interdisciplinarity, Sustainability", 16. *iNDiS*, Novi Sad: Departman za građevinarstvo i geodeziju, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 16-17 November, 2023, pp. 1-925, ISBN 978-86-6022-615-2

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1. Majkić T., Krstić P., Milović (Tatomirović T.): EFFECT OF CEMENT AND ZEOLITE COMPOUND ON SOIL STABILIZATION: A REVIEW, *Izgradnja*, 2023, Vol. 77, No. 5-8, pp. 96-105, ISSN 0350-5421, UDK:

666.942:549.67

2. Šešlija M., Starčev-Ćurčin A., Bulatović V.: Stabilizacija nosećeg sloja kolovozne konstrukcije puteva od drobljenog kamenog agregata, *Izgradnja*, 2023, Vol. 1, No. 1-4, pp. 46-53, ISSN 0350-5421, UDK: 625.85 (497.11)

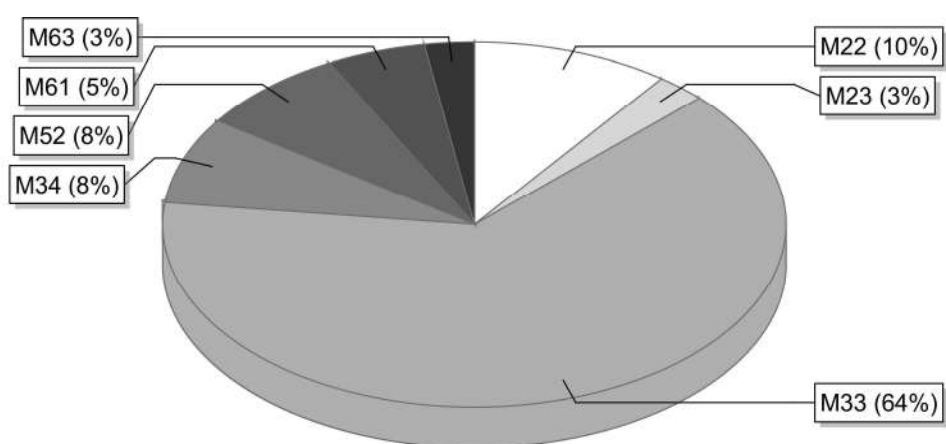
***Spisak rezultata M66 - Uređivanje zbornika saopštenja skupa nacionalnog značaja***

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**GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI**  
**Katedra za građevinske materijale, procenu stanja i sanaciju konstrukcija**

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u istaknutom međunarodnom časopisu	M22	4
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	25
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Rad u časopisu nacionalnog značaja	M52	3
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



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1. Broćeta G., Malešev M., Radonjanin V., Šupić S., Savić A., Lukić I., Cumbo A., Latinović Krndija M.: EFFECT OF AGGREGATE ORIGIN ON FREEZE/THAW RESISTANCE OF SELF-COMPACTING CONCRETE WITH AND WITHOUT A DE-ICING AGENT , *Građevinski materijali i konstrukcije*, 2023, Vol. 66, No. 4, pp. 1-14, ISSN 2217-8139

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Bukvić O., Malešev M., Serdar M., Draganić (Vukoslavčević) S., Radonjanin V.: FEASIBILITY OF USING SUNFLOWER HUSK ASH AS AN ALTERNATIVE ACTIVATOR FOR ALKALI-ACTIVATED SLAG, 20. *International Symposium MASE*, Skoplje: MASE - Macedonian Association of Structural Engineers, 28-29 September, 2023, ISBN 978-608-66946-3-0
2. Bukvić O., Serdar M.: Influence of pre-saturation regime on the scaling resistance of alkali-activated slag concrete , 1. *DuRSAAM Symposium* , Ghent, 8-10 February, 2023, pp. 106-108, ISBN 9789082526844
3. Bulatović V., Milović (Tatomirović T., Starčev-Ćurčin A.): EVALUATION OF SULFATE RESISTANCE OF CONCRETE WITH RCA THROUGH LENGTH CHANGE AND THERMAL ANALYSIS, 20. *International Symposium MASE*, Skoplje: MASE -Macedonian Association of Structural Engineers Faculty of Civil Engineering, Skopje, 28-29 September, 2023, pp. 998-1005
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2. Popović Lj., Vranić (Novaković) T., Lazić C., Popov S.: Technological Aspects of the Temporal-Space Visualization of the Disease Outbreak Vulnerability Assessment Model, 2. *INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY*, Herceg Novi: Faculty of Management Herceg Novi, 31-3 May, 2023, pp. 77-77, ISBN 978-9940-611-05-7
3. Radonić (Jakšić) J., Turk Sekulić M., Adamović D., Petrović (Đogo) M., Čepić Z., Sremački M., Đukić Z., Čojbašić (Radović) S., Bondžić (Simić) J., Krajinović S., Vojinović-Miloradov M.: Are the residents of AP Vojvodina, Serbia, exposed to persistent organic pollutants and polycyclic aromatic hydrocarbons through inhalation?, 23. *European Meeting on Environmental Chemistry*, Budva: Chemical Society of Montenegro, 3-6 December, 2023, pp. 113-113, ISBN 978-9940-9059-2-7

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

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2. Miroslavljević Z., Štrbac D., Ubavin D., Malešev M., Stanisavljević N., Štrbac G.: Proposition of waste glass containers usage as secondary raw material for clay blocks production, *Reciklaža i održivi razvoj*, 2023, Vol. 16, No. 7, pp. 81-89, ISSN 1820-7480
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**Spisak rezultata M61 - Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini**

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2. Milović (Tatomirović T.), Malešev M., Radonjanin V.: BOND STRENGTH AND THERMAL COMPATIBILITY OF REFERENCE CONCRETE AND REPAIR CEMENT MORTAR CONTAINING ZEOLITE AS SCM, 22. *Savremena građevinska praksa*, Ruma: Fakultet tehničkih nauka, Grafički centar "GRID" Novi Sad, 9-10 Jun, 2022, pp. 185-197, ISBN 978-86-918075-1-1

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

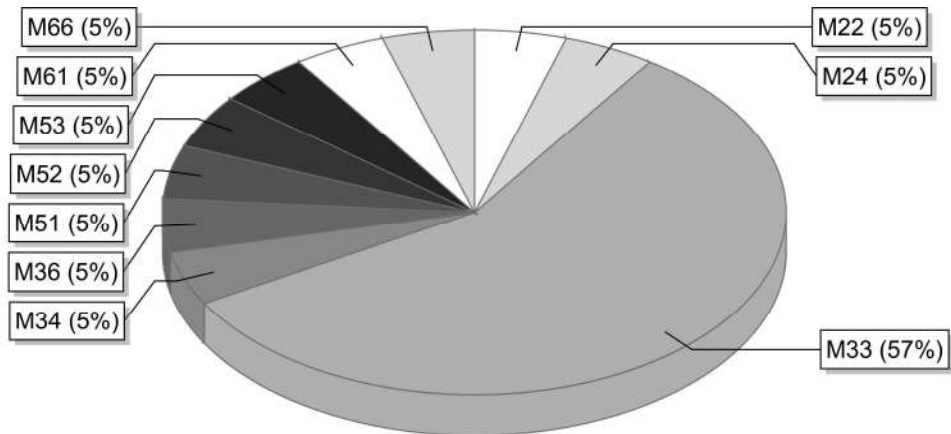
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za organizaciju i tehnologiju građenja

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	12
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	1
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Uređivanje zbornika saopštenja skupa nacionalnog značaja	M66	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

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1. Jakšić Ž.: THE VALUATION'S ELEMENTS FOR UNEQUAL APARTMENTS STRUCTURE IN THE SAME LOCATION, 16. *iNDiS*, Novi Sad, 16-17 November, 2023
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3. Krstić P., Marinković M., Stanojević D.: SKID RESISTANCE AND NOISE EMISSION OF DIFFERENT TYPES OF ASPHALT PAVEMENTS, 16. *iNDiS*, Novi Sad: Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, Novi Sad, 16-17 November, 2023, pp. 552-559, ISBN 978-86-6022-615-2
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Design, Interdisciplinarity, Sustainability", 16. *iNDiS*, Novi Sad: Departman za građevinarstvo i geodeziju, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 16-17 November, 2023, pp. 1-925, ISBN 978-86-6022-615-2

**Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

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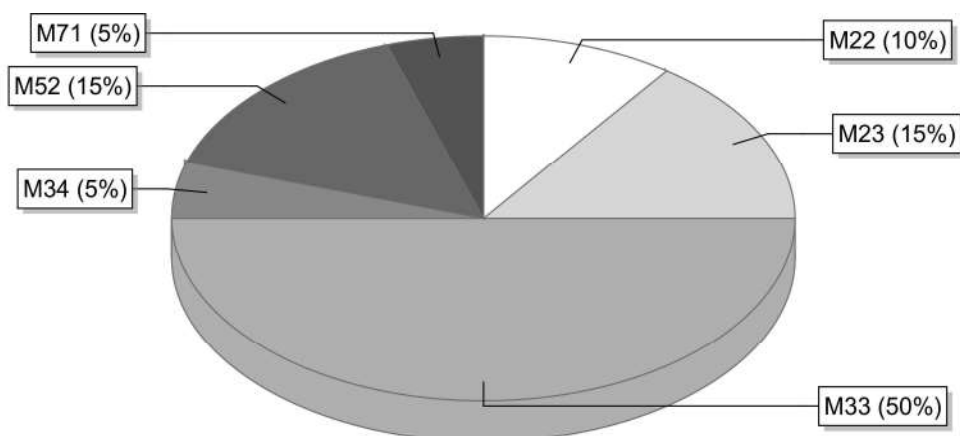
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za hidrotehniku i geodeziju

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	10
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u časopisu nacionalnog značaja	M52	3
Odbranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

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2. Milić M., Jeftenić G., Stipić D., Budinski Lj.: Mathematical Modeling of Groundwater Flow: A Case Study of Foundation Piles in the Vicinity of Danube River, *Applied Sciences*, 2023, Vol. 13, No. 24, ISSN 2076-3417

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

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2. Skorup D., Vujasinović M., Marinković G., Grgić I., Miletić B.: ASSESSMENT OF FOREST RESOURCES BASED ON SENTINEL-2 IMAGES – CASE STUDY DERVENTA, BIH (CADASTRAL MUNICIPALITY OF BREZICI), *Šumarski list*, 2023, No. 7–8 (2023), pp. 353-362, ISSN 0373-1332, UDK: 630\* 615 (001)
3. Sušić Z., Batilović M., Đurović R., Marković M., Vujinović M.: Deformation analysis of Ratkov Laz bridge using Pelzer and IWST method, *Geodetski vestnik*, 2023, Vol. 67, No. 4, pp. 487-504, ISSN 0351-0271, UDK: 528.482

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Bojović B., Nestorović Ž., Trifković M., Kuburić M., Lazić J.: INTEGRATED SYSTEMS FOR GEODETIC MEASUREMENTS IN ENGINEERING, *16. iNDiS*, Novi Sad: Univerzitet u Novom Sadu - Fakultet Tehnickih Nauka, 16-17 November, 2023, pp. 804-811
2. Krnić Đ., Vujinović M., Batilović M., Marković M., Budimirov T.: Investigation of objects verticality using terrestrial laser scanner, *16. iNDiS*, Novi Sad: Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, Novi Sad, 16-17 November, 2023, pp. 141-150, ISBN 978-86-6022-615-2
3. Marinković G., Nestorović Ž., Ilić Z., Božić M.: PARALLELISM OF STRAIGHT LINES DETERMINED BY GEODETIC METHODS TESTING, *16. iNDiS*, Novi Sad: Department of civil engineering and geodesy, Faculty of Technical Sciences, 16-17 November, 2023, pp. 829-836, ISBN 978-86-6022-615-2
4. Marinković G., Nestorović Ž., Ilić Z., Božić M.: THE LAND CONSOLIDATION INFLUENCE ON DEMOGRAPHY: CASE STUDY ON VOJVODINA IN SERBIA, *14. International Agriculture Symposium - Agrosym*, Jahorina: University of East Sarajevo, Faculty of Agriculture, Republic of Srpska, Bosnia, 5-8 October, 2023, pp. 1272-1276, ISBN 978-99976-816-1-4
5. Milić M., Jeftenić G., Budinski Lj., Stipić D., Kolaković S.: MATHEMATICAL MODELLING OF GROUNDWATER FLOW IN POROUS MEDIUM, *16. iNDiS*, Novi Sad: Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, Novi Sad, 16-17 November, 2023, pp. 512-523, ISBN 978-86-6022-615-2
6. Nataroš G., Davidović Manojlović M.: Registration of property rights on the construction land, *16. iNDiS*, Novi Sad: Fakultet tehničkih nauka, 16-17 November, 2023, pp. 822-828
7. Santrač N., Benka P., Batilović M.: Transformation parameters of local fitting of digital elevation models in the area of Koviljsko-petrovaradinski rit, *16. iNDiS*, Novi Sad: Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, Novi Sad, 16-17 November, 2023, pp. 792-803, ISBN 978-86-6022-615-2
8. Skorup D., Marinković G., Božić M., Đuričić Đ.: ORGANIZATIONAL STRUCTURES AND METHODOLOGIES OF LAND VALUATION IN LAND CONSOLIDATION AND THEIR IMPLEMENTATION IN THE REPUBLIC OF SRPSKA, *13. Science and higher education in function of sustainable development - SED 2023*, Vrnjačka Banja: Western Serbia Academy of Applied Studies, 2023, pp. 19-26, ISBN 978-86-82078-18-0
9. Skorup D., Marinković G., Božić M., Vujasinović M.: THE POSSIBILITY OF USING INTEGRATED GIS SYSTEMS AND PUBLICLY AVAILABLE REMOTE SENSING DATA FOR THE PURPOSES OF LAND VALUATION IN LAND CONSOLIDATION, *16. iNDiS*, Novi Sad: Department of civil engineering and geodesy, Faculty of Technical Sciences, 16-17 November, 2023, pp. 811-821, ISBN 978-86-6022-615-2
10. Vujinović M., Krnić Đ., Batilović M., Bulatović V., Sušić Z.: Application of terrestrial laser scanning technology in the procedure of creating as-built projects of objects, *16. iNDiS*, Novi Sad: Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, 16-17 November, 2023, pp. 111-121, ISBN 978-86-6022-615-2

### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Kolaković S., Miljanović B., Mandić V., Kolaković S., Ilić D.: Methodology for defining the biological minimum in multipurpose accumulations from the aspect of climate and morphological changes during operation on the example of accumulation Sot , 1. *European GREEN Conference* , Vodice: International Association of Environmental Scientists and Professionals (IAESP), Osijek, Croatia, 23-26 May, 2023, ISBN 2991-5171

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Davidović Manojlović M., Lazić J., Trifković M., Manojlović Lj., Bojović B.: Analysis of the effects of land consolidation. Case study: Šašinci , Zbornik radova Građevinskog fakulteta, 2023, Vol. 43, pp. 28-35, ISSN 0352-6852, UDK: 528.46
2. Krnić Đ., Vujinović M., Bugarinović Ž., Ristić A., Budimirov T.: Detection of fibre optic cables at urban area using GPR and EML, Izgradnja, 2023, Vol. 77, No. 1-4/2023, pp. 16-20, ISSN 0350-5421
3. Stojčinović D., Kuburić M., Davidović Manojlović M.: Application of different geodetic methods in clay volume measurement for brick production, Zbornik radova Građevinskog fakulteta, 2023, Vol. 44, pp. 20-33, ISSN 0352-6852, UDK: 553.611:528.02

**Spisak rezultata M71 - Odbranjena doktorska disertacija**

1. Stipić D.: Primena letis Bolcman metode za rešavanje ravanskih jednačina tečenja vode, kretanja nanosa i morfoloških promena u prirodnim vodotocima, Novi Sad, Fakultet tehničkih nauka u Novom Sadu, 2023

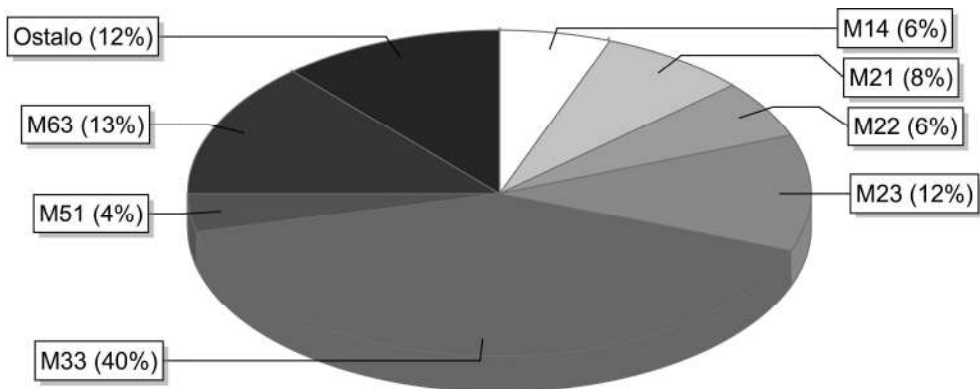


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za saobraćaj

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	3
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	6
Saopštenje sa međunarodnog skupa štampano u celini	M33	21
Istaknuta monografija nacionalnog značaja	M41	1
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	7
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1

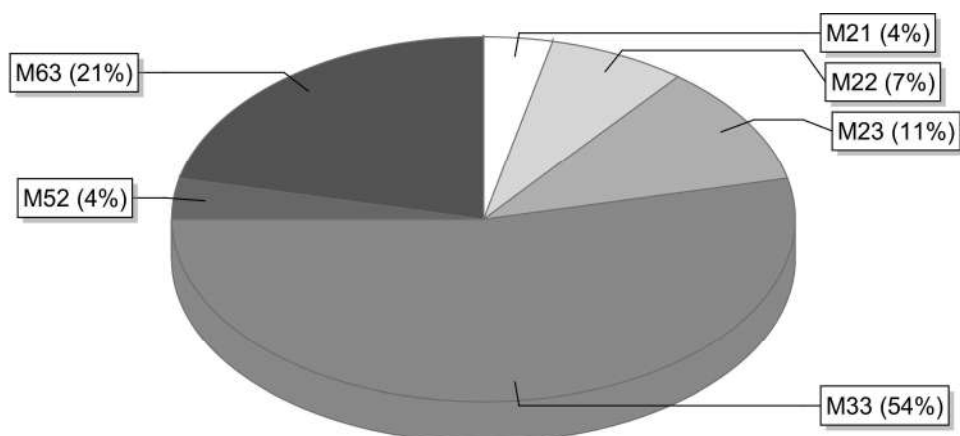


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za saobraćajne sisteme

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	15
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	6



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Ilin V., Simić D., Simić S., Simić S., Saulić N., Jose Luis C.: A hybrid genetic algorithm, list-based simulated annealing algorithm, and different heuristic algorithms for travelling salesman problem, *Logic Journal of the IGPL / Interest Group in Pure and Applied Logics*, 2023, Vol. 31, No. 4, pp. 602-617, ISSN 1367-0751

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Gatarić D., Ruškić N., Aleksić B., Đurić T., Pezo L., Lončar (rođ. Ćurčić) B., Pezo M.: Predicting Road Traffic Accidents—Artificial Neural Network Approach, *Algorithms*, 2023, Vol. 16, ISSN 1999-4893
2. Gračanin D., Ruškić N., Pavlica T., Marić M., Ćirić Lalić D.: Simulation Modelling of Pedestrians Influence on the Roundabout Capacity, *International Journal of Simulation Modelling*, 2023, Vol. 22, No. 3, pp. 474-484, ISSN 1726-4529

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Pitka P., Simeunović M., Stevanović I., Simeunović M., Škiljaica I.: Impact of public passenger transport organization model on system performance and service quality, *Transport*, 2023, Vol. 38, No. 2, pp. 116-126, ISSN 1648-4142
2. Ruškić N.: Estimation of the Critical Headway at the Intersections with Multilane Approaches, *ITE Journal*, 2023, Vol. 96, No. 3, pp. 36-41, ISSN 0162-8178
3. Simeunović M., Kojić R., Ralević N., Pitka P., Kovačević (Savković) T.: Influence of Traffic Flow and Meteorological Conditions on Air Pollution – A Case Study, *Promet - Traffic & Transportation*, 2023, Vol. 35, No. 6, pp. 932-946, ISSN 1848-4069

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Ilin V., Simić D., Veličković M., Garunović N.: Electric vehicle routing problem: variants and industry implications, *9. Towards a humane city*, Novi Sad: Faculty of Technical Sciences, Department of Traffic Engineering, 19-20 October, 2023, pp. 225-231, ISBN 978-86-6022-604-6
2. Kopic M., Polić D., Saulić N.: Critical review of the implementation of underground public garage in the center of Novi Sad, *9. Towards a humane city*, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences, University of Novi Sad, 19-20 October, 2023, pp. 285-290, ISBN 978-86-6022-604-6
3. Miličić M., Kovačević (Savković) T., Majstorović M., Pitka P.: Knowledge Management in Transport Companies, *14. International Conference Life Cycle Engineering and Management - ICDQM*, Prijedor: DQM Research Center - Prijedor, 22-23 June, 2023, pp. 133-138, ISBN 978-86-86355-52-2
4. Miličić M., Pitka P., Kovačević (Savković) T., Majstorović M., Jović A.: Internet of Things (IoT) Application in Transportation, *9. Towards a humane city*, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences in Novi Sad, 19-20 October, 2023, pp. 161-168, ISBN 978-86-6022-604-6
5. Papić Z., Simeunović M., Simeunović M., Saulić N.: An experimental study of lane change distance in obstacle avoidance maneuver, *31. INTERNATIONAL SCIENTIFIC CONFERENCE ON TRANSPORT, ROAD-BUILDING, AGRICULTURAL, HOISTING & HAULING AND MILITARY TECHNICS AND TECHNOLOGIES*, Varna: Scientific-technical union of mechanical engineering "Industry 4.0", 26-29 June, 2023, pp. 44-48, ISBN 1313-5031
6. Pavlica T., Ruškić N.: Comparative Analysis of Pedestrian Influence on Roundabouts Based on HCM2010, HCM2016 Calculations and Real-World Measurements, *9. Towards a humane city*, Novi Sad: Fakultet tehničkih nauka, 19-20 October, 2023, pp. 129-135, ISBN 978-86-6022-604-6, UDK: 656.025:711.4(082)
7. Pitka P., Miličić M., Kovačević (Savković) T., Simeunović M., Jović A., Rašković J.: Travel Time Analysis - Case Study of Novi Sad, *9. Towards a humane city*, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences in Novi Sad, 19-20 October, 2023, pp. 367-375, ISBN 978-86-6022-604-6
8. Polić D., Saulić N., Kopic M.: Resolving the parking space during the reconstruction of the Almaski region in Novi Sad, *9. Towards a humane city*, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences, University of Novi Sad, 19-20 October, 2023, pp. 279-284, ISBN 978-86-6022-604-6
9. Ruškić N., Čačić N., Šarac D.: The Effects of Switching the Vehicle of Post of Serbia to Electric Drive in Novi Sad, *9. Towards a humane city*, Novi Sad: Fakultet tehničkih nauka, 19-20 October, 2023, pp. 241-248, ISBN 978-86-6022-604-6, UDK: 656.025:711.4(082)
10. Senić D., Mirović V., Mitrović Simić J.: Micromobility - Users' needs and attitudes, *9. Towards a humane city*, Novi Sad: Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 19-20 October, 2023, pp. 201-207, ISBN 978-86-6022-604-6, UDK: 656.025:711.4(082)

11. Simeunović M., Papić Z., Simeunović M., Pitka P., Saulić N.: The role of the bike sharing system in sustainable transport in Novi Sad, 3. *Paving the way for achieving the targets of 2030 and beyond*, Solun: Aristotle University's Research Dissemination Center (KEDEA), 22-24 March, 2023
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15. Tarjan L., Šenk I., Stanojević M., Babić M., Jovanović D., Rikić D., Tegeltija S.: Simulation of the traffic light optimization algorithm based on the current traffic frequency (<https://ieeexplore.ieee.org/xpl/conhome/10094039/proceeding>), 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023, pp. 1-5, ISBN 978-1-6654-7546-4

#### **Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Ilin V., Veličković M., Garunović N., Simić D.: Last-mile delivery with electric vehicles, unmanned aerial vehicles, and e-scooters and e-bikes, Put i saobraćaj, 2023, Vol. 69, No. 4, pp. 37-42, ISSN 0478-9733

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

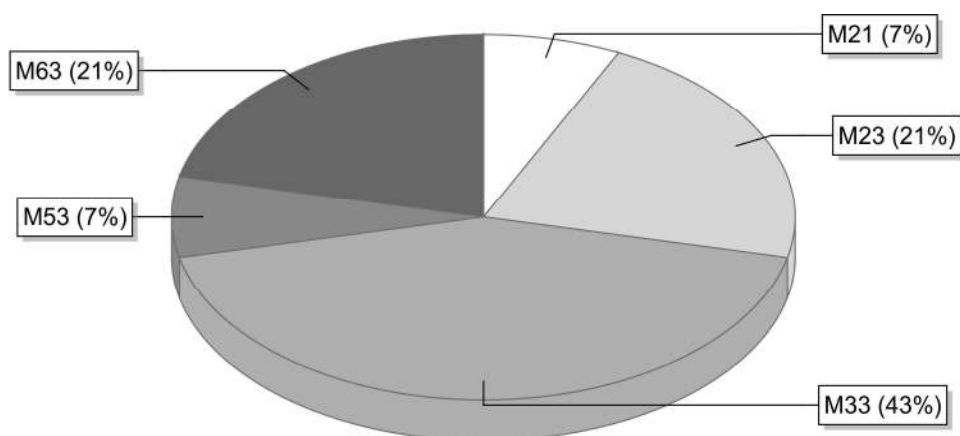
1. Čopić N., Pljakić M., Tarjan L., Jovanović D.: Primjena dron tehnologije i vještačke inteligencije za prikupljanje podataka na mikro mreži u saobraćajnom inženjerstvu, 12. *Međunarodna konferencija "Bezbednost saobraćaja u lokalnoj zajednici"*, Banja Luka: Agencija za bezbednost saobraćaja Republike Srpske, 26-27 Oktobar, 2023, pp. 26-37, ISBN 978-99976-160-3-6, UDK: 623.746.2-519:007.52
2. Papić Z., Bogdanović V., Simeunović M., Saulić N.: Model za utvrđivanje dužine puta bočnog izmicanja vozila prilikom preticanja, 22. *Veštačenje saobraćajnih nezgoda i prevare u osiguranju*, Ivanjica: BBN Congress Management d.o.o., 2-4 Novembar, 2023, pp. 412-422, ISBN 978-86-901646-5-3
3. Papić Z., Simeunović M., Simeunović M., Saulić N.: Preglednost iz kabine teretnih vozila u odnosu na pešake, 16. *Savetovanje na temu saobraćajne nezgode*, Zlatibor, 18-20 Maj, 2023, pp. 285-297, ISBN 978-86-86931-19-1
4. Saulić N., Bogdanović V., Mitrović Simić J., Garunović N.: Uticaj geometrije usporivača na brzine kretanja vozila, 16. *Savetovanje na temu saobraćajne nezgode*, Zlatibor: Štamparija Original, 18-20 Maj, 2023, pp. 310-319, ISBN 978-86-86931-19-1, UDK: 656.1.08(082)(0.034.2) 347.426:656.1.08(082)(0.034.2)
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6. Simeunović M., Gvozdenac I., Pitka P., Saulić N.: Istraživanje brzina kretanja pešaka, 16. *Savetovanje na temu saobraćajne nezgode*, Zlatibor, 18-20 Maj, 2023, pp. 298-307, ISBN 978-86-86931-19-1

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za tehnologije transportno logističkih sistema

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u međunarodnom časopisu	M23	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	6
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	3



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Stojić N., Štrbac S., Ćurčić Lj., Pucarević M., Prokić D., Stepanov J., Stojić G.: Exploring the impact of transportation on heavy metal pollution: A comparative study of trains and cars, *Transportation Research Part D: Transport and Environment*, 2023, Vol. 125, pp. 1-12, ISSN 1361-9209

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Badi I., Stević Ž., Radović D., Ristić B., Cakić A., Sremac S.: A new methodology for treating problems in the field of traffic safety: case study of Libyan cities, *Transport*, 2023, Vol. 38, No. 4, pp. 190-203, ISSN 1648-4142
2. Pitka P., Simeunović M., Stevanović I., Simeunović M., Škiljaica I.: Impact of public passenger transport organization model on system performance and service quality, *Transport*, 2023, Vol. 38, No. 2, pp. 116-126, ISSN 1648-4142
3. Simeunović M., Kojić R., Ralević N., Pitka P., Kovačević (Savković) T.: Influence of Traffic Flow and Meteorological Conditions on Air Pollution – A Case Study, *Promet - Traffic & Transportation*, 2023, Vol. 35, No. 6, pp. 932-946, ISSN 1848-4069

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Miličić M., Kovačević (Savković) T., Majstorović M., Pitka P.: Knowledge Management in Transport Companies, *14. International Conference Life Cycle Engineering and Management - ICDQM*, Prijedor: DQM Research Center - Prijedor, 22-23 June, 2023, pp. 133-138, ISBN 978-86-86355-52-2
2. Miličić M., Pitka P., Kovačević (Savković) T., Majstorović M., Jović A.: Internet of Things (IoT) Application in Transportation, *9. Towards a humane city*, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences in Novi Sad, 19-20 October, 2023, pp. 161-168, ISBN 978-86-6022-604-6
3. Papić Z., Simeunović M., Simeunović M., Saulić N.: An experimental study of lane change distance in obstacle avoidance maneuver, *31. INTERNATIONAL SCIENTIFIC CONFERENCE ON TRANSPORT, ROAD-BUILDING, AGRICULTURAL, HOISTING & HAULING AND MILITARY TECHNICS AND TECHNOLOGIES*, Varna: Scientific-technical union of mechanical engineering "Industry 4.0", 26-29 June, 2023, pp. 44-48, ISBN 1313-5031
4. Pitka P., Miličić M., Kovačević (Savković) T., Simeunović M., Jović A., Rašković J.: Travel Time Analysis - Case Study of Novi Sad, *9. Towards a humane city*, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences in Novi Sad, 19-20 October, 2023, pp. 367-375, ISBN 978-86-6022-604-6
5. Simeunović M., Papić Z., Simeunović M., Pitka P., Saulić N.: The role of the bike sharing system in sustainable transport in Novi Sad, *3. Paving the way for achieving the targets of 2030 and beyond*, Solun: Aristotle University's Research Dissemination Center (KEDEA), 22-24 March, 2023
6. Simeunović M., Saulić N., Papić Z., Bogdanović V., Simeunović M.: Risky behaviour of electric scooter users in Novi Sad, *31. INTERNATIONAL SCIENTIFIC CONFERENCE ON TRANSPORT, ROAD-BUILDING, AGRICULTURAL, HOISTING & HAULING AND MILITARY TECHNICS AND TECHNOLOGIES*, Varna: Scientific-technical union of mechanical engineering "Industry 4.0", 26-29 June, 2023, pp. 15-17, ISBN 1313-5031

### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Rašković J., Pitka P.: UPOREDNA ANALIZA VREMENA PUTOVANJA KORISNIKA U SISTEMU JAVNOG PREVOZA PUTNIKA SA DRUGIM VIDOVIMA PREVOZA, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 4, pp. 467-470, ISSN 0350-428X, UDK: 658.62

### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

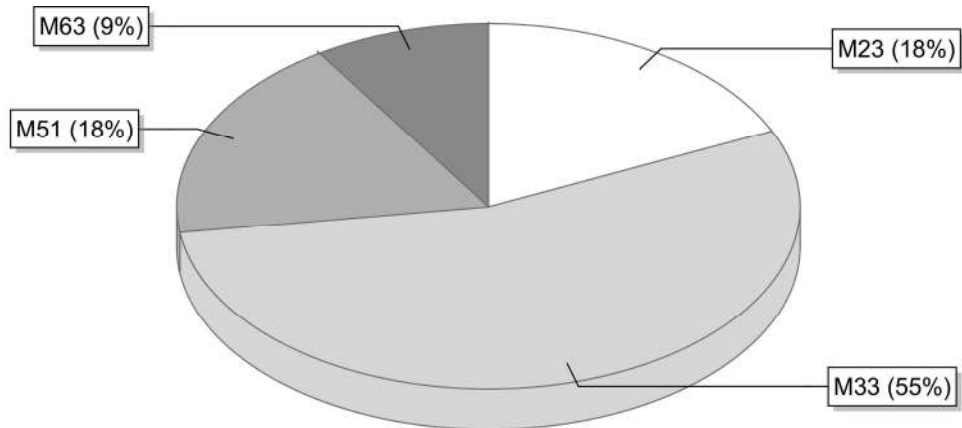
1. Papić Z., Simeunović M., Simeunović M., Saulić N.: Preglednost iz kabine teretnih vozila u odnosu na pešake, *16. Savetovanje na temu saobraćajne nezgode*, Zlatibor, 18-20 Maj, 2023, pp. 285-297, ISBN 978-86-86931-19-1
2. Saulić N., Papić Z., Bogdanović V., Simeunović M., Simeunović M.: Karakteristike kretanja lakih električnih vozila u saobraćaju, *22. Veštačenje saobraćajnih nezgoda i prevare u osiguranju*, Ivanjica: BBN Congress Management d.o.o., 2-4 Novembar, 2023, pp. 461-466, ISBN 978-86-901646-5-3
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za poštanski saobraćaj i komunikacije

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	6
Rad u vodećem časopisu nacionalnog značaja	M51	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Blagojević M., Šarac D., Mostarac K.: Selecting the Flexible Last-Mile Delivery Models Using Multicriteria Decision-Making, *Promet - Traffic & Transportation*, 2023, Vol. 35, No. 5, pp. 635-657, ISSN 1848-4069
2. Čačić N., Jovanović B., Šarac D., Trubint N., Duđak Lj., Blagojević M.: Demand modelling and forecasting the future development of parcel and express services , *Economic Computation and Economic Cybernetics Studies and Research*, 2023, Vol. 57, No. 2, pp. 253-268, ISSN 0424-267X

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Jovanović B., Šarac D., Čačić N., Rakić E.: Urban last-mile delivery solutions, *9. Towards a humane city*, Novi Sad: Department of traffic engineering-Faculty of technical sciences - University of Novi Sad, 19-20 October, 2023, pp. 249-256, ISBN 978-86-6022-604-6
2. Ninović M.: Industry 5.0: Technological advancement and challenges and application in logistics, *14. International Conference Life Cycle Engineering and Management - ICDQM*, Prijedor: Istraživački centar DQM, Prijedor, 22-23 June, 2023, pp. 123-129, ISBN 978-86-86355-52-2
3. Ninović M.: The development of mobility in urban areas - examples of good practices, *2. International Conference od Advances in Traffic and Communication Technologies - ATCT*, Sarajevo: University of Sarajevo, Faculty of Traffic and Communications, 11-12 May, 2023, pp. 10-17, ISBN 978-9958-619-54-0
4. Poljak G., Maslarić M., Dumnić S.: A methodology for evaluating and implementing location selection approaches: a case of city freight hub, *9. Towards a humane city*, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 19-20 October, 2023, pp. 257-262, ISBN 978-86-6022-604-6
5. Ruškić N., Čačić N., Šarac D.: The Effects of Switching the Vehicle of Post of Serbia to Electric Drive in Novi Sad, *9. Towards a humane city*, Novi Sad: Fakultet tehničkih nauka, 19-20 October, 2023, pp. 241-248, ISBN 978-86-6022-604-6, UDK: 656.025:711.4(082)
6. Šarac D., Čačić N., Jovanović B.: Mobile alternative delivery points, *2. International Conference od Advances in Traffic and Communication Technologies - ATCT*, Sarajevo: University of Sarajevo, Faculty of Traffic and Communications, 11-12 May, 2023, pp. 18-25, ISBN 978-9958-619-54-0

### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Čačić N., Ninović M., Ninović M., Šarac D.: Future Development Trends in the Postal Market: An Overview, *International Journal for Traffic and Transport Engineering, (IJTTE)*, 2023, Vol. 13, No. 1, pp. 28-39, ISSN 2217-544X
2. Čačić N., Ninović M., Šarac D.: Future Development Trends in the Postal Market: An Overview, *International Journal for Traffic and Transport Engineering, (IJTTE)*, 2023, Vol. 13, No. 1, pp. 28-39, ISSN 2217-544X

### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Čačić N., Šarac D., Jovanović B., Rakić E.: Analiza performansi CEP operatora sa aspekta održivosti, *41. PosTel*, Beograd: Univerzitet u Beogradu-Saobraćajni fakultet, 28-29 Novembar, 2023, pp. 77-86, ISBN 978-86-7395-475-2

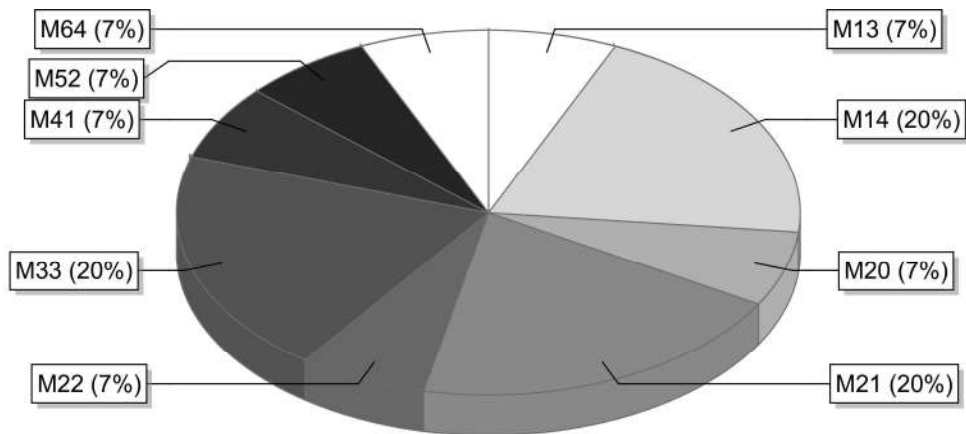


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za logistiku i intermodalni transport

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	3
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	3
Istaknuta monografija nacionalnog značaja	M41	1
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M13 - Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja**

1. Simić D., Banković Z., Villar J., Calvo-Rolle J., Simić S., Simić S.: The Analysis of Hybrid Brain Storm Optimisation Approaches in Feature Selection, Cham, Springer, Cham; Springer-Verlag Berlin Heidelberg, 2023, str. 469-480, ISBN 978-3-031-40724-6, UDK: ISSN: 0302-9743, Vol: 14001; Part of the Lecture Notes in Computer Science book series (LNAI, volume 14001)

### **Spisak rezultata M14 - Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja**

1. Díaz-Longueira A., Timiraos M., Michelena Á., Zayas-Gato F., Casteleiro-Roca J., Jove E., Quintián H., Simić D., Calvo-Rolle J.: Comparative Study of Regression Models Applied to the Prediction of Energy Generated by a Micro Wind Turbine, Cham, Springer, Cham; Springer-Verlag Berlin Heidelberg, 2023, str. 145-154, ISBN 978-3-031-42528-8, UDK: ISSN: 2367-3370; Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 749)
2. Michelena Á., Díaz-Longueira A., Timiraos M., de Cos Juez F., Moretón H., Simić D., Fontenla-Romero Ó., Calvo-Rolle J.: Hybrid Classification Model Based on Supervised Techniques for Denial of Service Attacks Detection over CoAP Protocol, Cham, Springer, Cham; Springer-Verlag Berlin Heidelberg, 2023, str. 1-10, ISBN 978-3-031-38615-2, UDK: ISSN: 2367-3370; Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 742)
3. Simić D., Calvo-Rolle J., Villar J., Ilin V., Simić S., Simić S.: An Approach of Optimisation in Last Mile Delivery, Cham, Springer, Cham; Springer-Verlag Berlin Heidelberg, 2023, str. 311-320, ISBN 978-3-031-42535-6, UDK: ISSN: 2367-3370; Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 750)

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Górriz J., Illán I., Marquina A., Arco J., Atzmüller M., Ballarini F., Barakova E., Bologna G., Bonomini M., Castellanos-Domínguez G., Castillo-Barnes D., Cho S., Ricardo Contreras A., Cuadra J., Domínguez E., Domínguez-Mateos F., Duro R., Elizondo D., Fernández-Caballero A., Fernández E., Formoso M., Gallego-Molina, N., Gamazo J., Jiménez J., Rodríguez-Rivero J., Garre del Olmo C., Javier Garrigós F., Gómez-Rodellar A., Vilda P., Grana M., Rodríguez-Tapia B., Hendrikse S., Jimenez-Mesa C., Jodra-Chuan M., Julián V., Kotz G., Kutt K., Leming M., de Lope Asiaín J., del Cisne Macas Ordóñez B., Marrero-Aguar V., Martínez J., Martínez-Murcia F., Martínez-Tomás R., Mekyska J., Nalepa G., Novais P., Orellana D., Ortiz A., Palacios-Alonso D., Palma J., Pereira A., Davidson P., Punninghoff M., Ponticorvo M., Psarrou A., Ramírez J., Rincón M., Rodellar-Biarge V., Rodríguez-Rodríguez I., Roelofsma P., Santos J., Salas-Gonzalez D., Salcedo Lagos P., Segovia F., Shoeibi A., Silva M., Simić D., Suckling J., Treur J., Tsanas A., Varela R., Wang S., Wang W., Zhang Y., Zhu H., Zhu Z., Ferrández-Vicente J.: Computational approaches to Explainable Artificial Intelligence: Advances in theory, applications and trends, December 2023, 101945 (IF = 18.6), Information Fusion, 2023, Vol. 100, No. 101945, ISSN 1566-2535, UDK: <https://doi.org/10.1016/j.inffus.2023.101945>

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Ilin V., Simić D., Simić S., Simić S., Saulić N., Jose Luis C.: A hybrid genetic algorithm, list-based simulated annealing algorithm, and different heuristic algorithms for travelling salesman problem, Logic Journal of the IGPL / Interest Group in Pure and Applied Logics, 2023, Vol. 31, No. 4, pp. 602-617, ISSN 1367-0751
2. Mirčetić D., Rostami-Tabar B.: Exploring the association between time series features and forecasting by temporal aggregation using machine learning, Neurocomputing, 2023, Vol. 548
3. Simić S., Sakač S., Banković Z., Villar J., Calvo-Rolle J., Simić S., Simić D.: A three-stage hybrid clustering system for diagnosing children with primary headache disorder, Logic Journal of the IGPL / Interest Group in Pure and Applied Logics, 2023, Vol. 31, No. 2, pp. 300-313, ISSN 1367-0751, UDK: On-line: 04 March 2022

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Bojić S., Maslarić M., Mirčetić D., Nikoličić S., Todorović V.: Simulation and Genetic Algorithm-based approach for multi-objective optimization of production planning: A case study in industry, Advances in Production Engineering and Management, 2023, Vol. 18, No. 2, pp. 250-262, ISSN 1854-6250

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Ilin V., Simić D., Veličković M., Garunović N.: Electric vehicle routing problem: variants and industry implications, 9. *Towards a humane city*, Novi Sad: Faculty of Technical Sciences, Department of Traffic Engineering, 19-20 October, 2023, pp. 225-231, ISBN 978-86-6022-604-6
2. Poljak G., Maslarić M., Dumnić S.: A methodology for evaluating and implementing location selection approaches: a case of city freight hub, 9. *Towards a humane city*, Novi Sad: University of Novi Sad, Faculty

of Technical Sciences, 19-20 October, 2023, pp. 257-262, ISBN 978-86-6022-604-6

3. Simić D., Ilin V.: The Analysis of Electric Vehicle Applications in Travelling Salesman Problem , 9. *Towards a humane city* , Novi Sad: Faculty of Technical Sciences, Department of Traffic Engineering , 19-20 October, 2023, pp. 233-239, ISBN 978-86-6022-604-6

**Spisak rezultata M41 - Istaknuta monografija nacionalnog značaja**

1. Stojanović Đ.: Историја српске шпедиције : први део : Развој шпедитерске делатности, Novi Sad, Fakultet tehničkih nauka, Nacionalna asocijacija špediterskih društava i agenata PU "Transport i logistika", 2023, str. 1-416, ISBN 978-86-6022-633-6, UDK: 656.96(497.11)(091)

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Ilin V., Veličković M., Garunović N., Simić D.: Last-mile delivery with electric vehicles, unmanned aerial vehicles, and e-scooters and e-bikes , Put i saobraćaj, 2023, Vol. 69, No. 4, pp. 37-42, ISSN 0478-9733

**Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

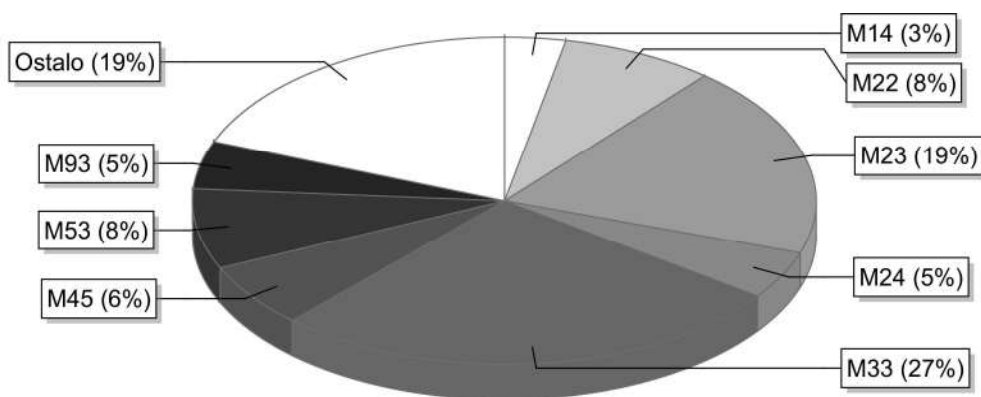
1. Veličković M., Vujinović T., Stojanović Đ.: Enhancing decision-making in freight forwarding through a Flexsim-based simulation model, 6. *Konferencija o modelovanju i simulaciji Srbije - SRBISIM* , Beograd: SRBISIM – Udruženje za modelovanje i simulaciju Srbije, 27-28 Septembar, 2023, pp. 137-137, ISBN 978-86-80072-12-8, UDK: 004.94(082)(0.034.2)

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za arhitekturu i urbanizam

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	2
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije međunarodnog značaja	M18	1
Kustoski rad	M107	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	12
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	3
Uređivanje međunarodnog naučnog časopisa	M28	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	17
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	4
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije nacionalnog značaja	M49	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Odbranjena doktorska disertacija	M71	1
Autorska izložba sa katalogom uz naučnu recenziju	M93	3

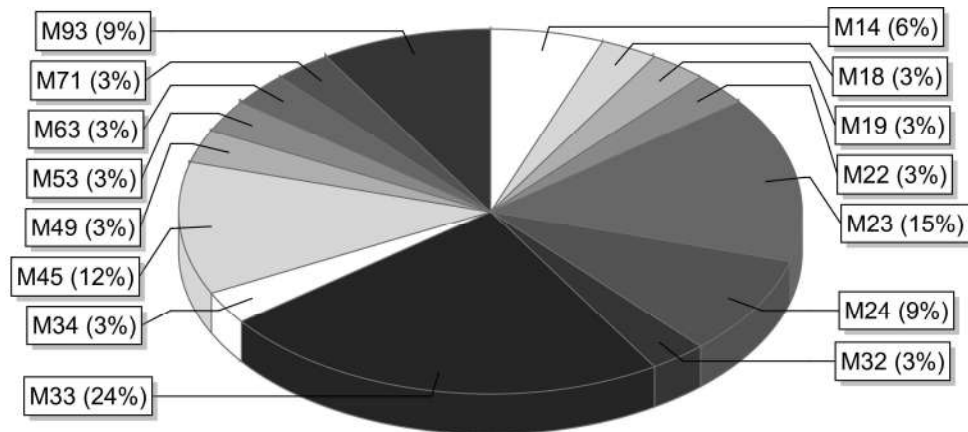


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za arhitekturu i urbanizam

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	2
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije međunarodnog značaja	M18	1
Kustoski rad	M107	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	5
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	3
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	4
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije nacionalnog značaja	M49	1
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Odbranjena doktorska disertacija	M71	1
Autorska izložba sa katalogom uz naučnu recenziju	M93	3



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M14 - Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja**

1. Konstantinović D., Zeković M.: Rethinking Dissonant Heritage: The Unabsorbed Modernisation of Novi Sad In: Čamprag, N., Uğur, L., Suri, A. (eds) Rethinking Urban Transformations. Diversity and Inclusion Research, Springer, 2023, str. 133-148, ISBN 978-3-031-37223-0
2. Milinković M., Tilinger D., Jovanović J., Čorović D., Krklješ M., Nedučin D., Dukanac D., Subić S.: Serbia: Belgrade, Novi Sad, Bor, Subotica. In I. Lima Rodrigues, D. Shach-Pinsly, K. Tsiambaos & V. P. Korobar (eds.): European Middle-Class Mass Housing: Past and Present of the Modern Community, Lisabon, Iscte-IUL, 2023, str. 490-517, ISBN 978-989-781-862-2

### **Spisak rezultata M18 - Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije međunarodnog značaja**

1. Stefanović V., Stričević T.: 23. Salon arhitekture Novi Sad - katalog/23rd Salon of Architecture Novi Sad - catalogue, Novi Sad, Društvo arhitekata Novog Sada, 2023, ISBN 978-86-81662-04-5

### **Spisak rezultata M107 - Kustoski rad**

1. Stefanović V., Stričević T., Marinčić A., Basta T.: Kustoski rad, međunarodna izložba 23. Salon arhitekture Novi Sad/23rd Salon of Architecture Novi Sad, Novi Sad, Društvo arhitekata Novog Sada, 2023, ISBN 978-86-81662-04-5

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Atanacković-Jeličić J., Rapaić M., Maraš I., Tot E., Ecet D.: Can Technology Reinforce Cogency of the Architectural Argument: Trial and Error Approach, Buildings, 2023, Vol. 13, No. 1866, pp. 1-15, ISSN 2075-5309

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Konstantinović D.: Girls Build! Female architects who shaped the modern history of Novi Sad, Glasnik Etnografskog instituta SANU Beograd, 2023, pp. 17-39, ISSN 0350-0861
2. Mitrović T., Vračarić M.: THE IMPACT OF PUBLIC EVENTS ON THE USE OF SPACE: ANALYSIS OF THE MANIFESTATIONS IN LIBERTY SQUARE IN NOVI SAD, Arhiv za tehničke nauke - Archives for Technical Sciences, 2023, Vol. 29, No. 1, pp. 75-82, ISSN 1840-4855
3. Nikolić D.: On the Evolute of Ionic Volute, Nexus Network Journal, 2023, Vol. 25, pp. 107-132, ISSN 1590-5896
4. Šunjević M., Reba D., Rajs V., Vujić (Francuski) B., Ninkov M., Vojinović-Miloradov M.: Assessment of detected in situ and modeled PM10/2.5 concentration levels during the urban transformation process in Novi Sad, Serbia, Thermal Science, 2023, Vol. 27, No. 3B, pp. 2275-2286, ISSN 0354-9836
5. Zeković S., Grgić S., Maraš I., Atanacković-Jeličić J., Krklješ M.: Application of Augmented Reality in Architectural Education, International Journal of Engineering Education, 2023, Vol. 39, No. 4, pp. 886-896, ISSN 0949-149X

### **Spisak rezultata M24 - Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom**

1. Kocić D., Konstantinović D.: MODELS OF STATE SPECTACLE IN YUGOSLAVIA: THE FIRST CONFERENCE OF THE NON-ALIGNED MOVEMENT, Facta Universitatis, Series: Architecture and Civil Engineering, 2023, Vol. 21, No. 1, pp. 131-148, ISSN 0354-4605
2. Zeković M.: Indeterminacy in architecture - case study of the Miseluk project, Facta Universitatis, Series: Architecture and Civil Engineering, 2023, ISSN 0354-4605
3. Zeković S., Maraš I., Krklješ M.: EXPLORING FUNCTION ADAPTABILITY AND FLEXIBILITY IN ARCHITECTURE – CASE STUDY OF A HOUSING VERTICAL, Facta Universitatis, Series: Architecture and Civil Engineering, 2023, Vol. 21, No. 3, pp. 415-429, ISSN 0354-4605

### **Spisak rezultata M32 - Predavanje po pozivu sa međunarodnog skupa štampano u izvodu**

1. Konstantinović D.: „SPENS: ENCLOSED CITY CENTRE APPROACH AND DESIGN METHODOLOGY FOR RECONSTRUCTION OF "SPORTS AND BUSINESS CENTRE VOJVODINA", 16. iNDiS, Novi Sad: Fakultet tehničkih nauka, 16-17 November, 2023, pp. 13-15, ISBN 978-86-6022-615-2

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Babić T., Krklješ M.: Program transformatio of urban villas built in the period between the first world war and the second world war in Novi Sad, Serbia, 1. SINARG (Sinergy of Architecture and Civil Engineering), Niš: FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE, UNIVERSITY OF NIŠ SERBIAN ACADEMY

OF SCIENCES AND ARTS - BRANCH IN NIŠ, 14-15 September, 2023, pp. 101-112, ISBN ISBN 978-86-88601-80

2. Konstantinović D., Momirov M., Čegar N.: RETHINKING THE TERM GENERAL CITY CENTRE IN CONTEMPORARY URBAN PRACTICE AND ARCHITECTURAL EDUCATION, 16. *iNDiS*, Novi Sad: Fakultet tehničkih nauka, 16-17 November, 2023, pp. 650-657, ISBN 978-86-6022-615-2
3. Krklješ M., Nedučin D.: Cultural Heritage as a Potential for Connecting Settlements along the Danube River - Case Study, 6. *International Conference of Contemporary Affairs in Architecture and Urbanism*, Istanbul: Municipality of Alanya, 14-16 June, 2023, pp. 853-858, ISBN 978-605-71006-7-2
4. Miškeljin I., Maraš I., Todorov M.: Experimental Approaches to Architectural Visualization: Learning from Visual Arts, 9. *Mongeometrija*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad and Serbian Society for Geometry and Graphics SUGIG, 7-10 June, 2023, pp. 257-270, ISBN 978-86-6022-575
5. Miškeljin I., Maraš I.: The Integration of Greenery in Architecture as an Approach to Rooftop Extension, 1. *SINARG (Sinergy of Architecture and Civil Engineering)*, Niš: FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE, UNIVERSITY OF NIŠ SERBIAN ACADEMY OF SCIENCES AND ARTS - BRANCH IN NIŠ, 14-15 September, 2023, pp. 991-1001, ISBN 978-86-88601-82-5
6. Mitrović T., Vračarić M., Stojaković V.: VISIBILITY ANALYSIS OF URBAN SPACES: TEMPORARY STRUCTURE LAYOUTS RELATED TO THE QUALITY OF URBAN SEATING, 9. *Mongeometrija*, Novi Sad, 7-10 June, 2023, pp. 7-14, ISBN 978-86-6022-575-9
7. Stefanović V.: THE INFLUENCE OF THE NEIGHBORHOOD BUILT ENVIRONMENT OF COLLECTIVE HOUSING ON QUALITY OF LIFE: AN EXAMPLE FROM NOVI SAD, SERBIA, 16. *iNDiS*, Novi Sad: Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, Novi Sad, 16-17 November, 2023, pp. 659-667, ISBN 978-86-6022-615-2
8. Stefanović V.: THE LARGE-SCALE COLLECTIVE HOUSING OF SOCIALIST YUGOSLAVIA – THE INTRODUCTION AND DEVELOPMENT OF A NEW WAY OF CITY LIFE, 1. *SINARG (Sinergy of Architecture and Civil Engineering)*, Niš: FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE, UNIVERSITY OF NIŠ SERBIAN ACADEMY OF SCIENCES AND ARTS - BRANCH IN NIŠ, 14-15 September, 2023, pp. 846-854, ISBN 978-86-88601-82-5

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Stefanović V.: The importance of green public spaces in residential areas for quality of life: the example of socialist and post-socialist housing in Novi Sad, Serbia, 1. *Green Agenda for Western Balkans*, Beograd: University of Belgrade - Faculty of Geography, 20-22 June, 2023, pp. 55-72, ISBN 978-86-6283-140-8

#### **Spisak rezultata M45 - Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja**

1. Konstantinović D., Zeković M.: Novi Sad-moderni grad: vrednosti neapsorbovanog modernizma. U: Novi Sad-moderni grad, Novi Sad, Fakultet tehničkih nauka/BAZA-platofrma za prostorne prakse, 2023, str. 12-33, ISBN 978-86-6022-547-6
2. Silađi M.: Kockaházak a Vajdaságban. In Tamáska Máté (editor) Kockaháza: a 20. század vidéki háztípusa, Budimpešta, Magyar Nemzeti Levéltár, Martin Opitz Kiadó, Skanzen, 2023, str. 275-284, ISBN 9789639987975
3. Stefanović V.: Razvoj urbanih zajednica u Novom Sadu, Novi Sad - Moderni grad (urednici: Dragana Konstantinović, Miljana Zeković), Novi Sad, Fakultet tehničkih nauka, BAZA - platforma za prostorne prakse, 2023, str. 130-157, ISBN 978-86-6022-547-6
4. Žugić V., Momirov M., Stojković B.: Svemir u gradu: čitanje modernizacije kroz jedan luster, Novi Sad, Fakultet tehničkih nauka, Univerzitet u Novom Sadu; Baza - platforma za prostorne prakse, 2023, str. 66-97, ISBN 978-86-6022-547-6

#### **Spisak rezultata M49 - Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije nacionalnog značaja**

1. Konstantinović D., Zeković M.: Novi Sad - moderni grad, Novi Sad, Fakultet tehničkih nauka/BAZA-platofrma za prostorne prakse, 2023, ISBN 978-86-6022-547-6

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Zeković S., Mihajlović M.: CAN NEW TECHNOLOGIES REPLACE THE EXPERIENCE THAT CULTURAL HERITAGE SITES AND MUSEUMS ESSENTIALLY OFFER?, SAJ. Serbian architectural journal, 2023, Vol. 15, No. 3, pp. 332-347, ISSN 1821-3952

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Carević Tomić M., Krklješ M., Reba D., Medenica R.: Kroz međunarodne projekte do zajedničkih nastavnih

programa , 29. *Trendovi razvoja: Univerzitet pred novim izazovima* , Vrnjačka Banja, 8-11 Februar, 2023, pp. 189-192

**Spisak rezultata M71 - Odbranjena doktorska disertacija**

1. Škorić S.: Prostorno-vremenski obrasci korišćenja javnih prostora u centralnim pešačkim zonama gradova Vojvodine, Novi Sad, Fakultet tehničkih nauka, 2023

**Spisak rezultata M93 - Autorska izložba sa katalogom uz naučnu recenziju**

1. Antal A., Vukelić L., Žugić V.: Shattering Boundaries: A Virtual-Physical Space Interaction, Novi Sad, Kulturanova, 2023, ISBN 978-86-900220-9-0
2. Silađi M., Draganić A., Neškov Repić I.: Dva zvonika - izgradnja rimokatoličke crkve u Futogu/Two bell towers - Construction of the Roman Catholic church in Futog. Međunarodna izložba. 17-26.11.2023. Mali likovni salon, Novi Sad. Publikovano u dvojezičnom katalogu (srpski / engleski) sa recenzijom. selekcionni odbor/recenzenti: Nemet Ferenc (SRB), Cristian Graure (RO), Fejerdy Tamas (HU), Aida Idrizbegovic Zgonic (BIH), Borut Juvanec (SL)., Novi Sad, Fakultet tehničkih nauka, UNS; Platforma za studije kulture CULTstore , 2023, ISBN 978-86-6022-609-1
3. Silađi M., Draganić A.: Moћ лимене кутије: фабрика "Кулпин"/The power of the tin box: "Kulpin" factory. Међународна изложба. 20.12.2023. Културна станица Свицара, Нови Сад. Публиковано у двојезичном каталогу (српски / енглески) са рецензијом. селекциони одбор/рецензенти: dr Németh Ferenc (SRB), dr Cristian Graure (RO), dr Fejérdy Tamás (HU), dr Aida Idrizbegović Zgonić (BiH), dr Borut Juvanec (SL)., Novi Sad, Fakultet tehničkih nauka, UNS; Platforma za studije kulture CULTstore, 2023, ISBN 978-86-6022-620-6

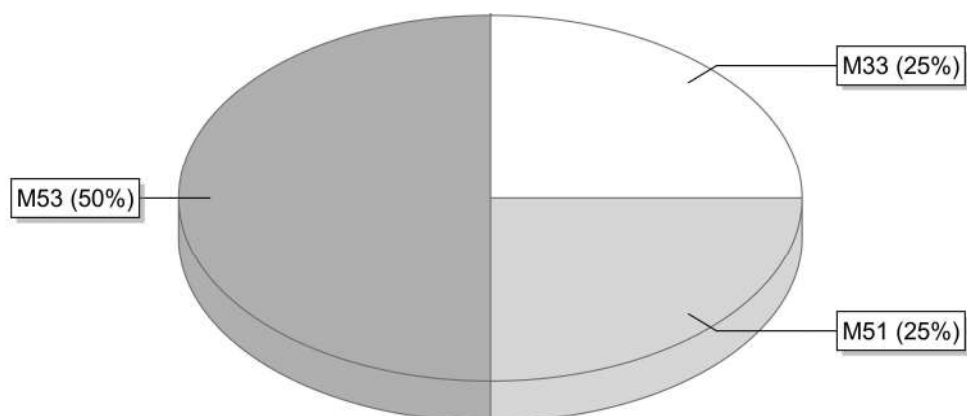


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za scenski dizajn

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Saopštenje sa međunarodnog skupa štampano u celini	M33	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	2



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Babić T., Krklješ M.: Program transformatio of urban villas built in the period between the first world war and the second world war in Novi Sad, Serbia , 1. *SINARG (Sinergy of Architecture and Civil Engineering)* , Niš: FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE, UNIVERSITY OF NIŠ SERBIAN ACADEMY OF SCIENCES AND ARTS - BRANCH IN NIŠ, 14-15 September, 2023, pp. 101-112, ISBN ISBN 978-86-88601-80

### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Dadić Dinulović T.: Izmeštanje, rekonstrukcija, interpretacija i reinterpretacija umetničkog dela scenskog dizajna , Zbornik Matice srpske za scenske umetnosti i muziku, 2023, No. 69, pp. 195-210, ISSN 0352-9738

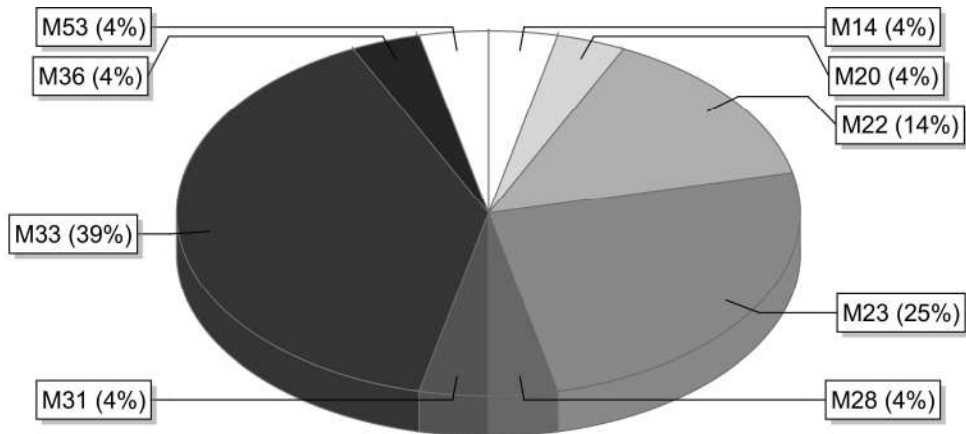
### **Spisak rezultata M53 - Rad u naučnom časopisu**

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2. Vilotić D.: Tekst za rubriku "Scenski dizajn" pod nazivom: "Dizajn scenskog prostora na 68. Sterijinom pozorju", *Scena - časopis za pozorišnu umetnost, Sterijino pozorje*, Novi Sad 2023, Vol. 2023, No III, ISSN 0036-5734, Цена, 2023, ISSN 0036-5734

**GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI**  
**Katedra za teorije i interpretacije prostora u arhitekturi i urbanizmu**

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u istaknutom međunarodnom časopisu	M22	4
Rad u međunarodnom časopisu	M23	7
Uređivanje međunarodnog naučnog časopisa	M28	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	11
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Rad u naučnom časopisu	M53	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M14 - Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja**

1. Milinković M., Tilinger D., Jovanović J., Čorović D., Krklješ M., Nedučin D., Dukanac D., Subić S.: Serbia: Belgrade, Novi Sad, Bor, Subotica. In I. Lima Rodrigues, D. Shach-Pinsly, K. Tsiambaos & V. P. Korobar (eds.): *European Middle-Class Mass Housing: Past and Present of the Modern Community*, Lisbon, Iscte-IUL, 2023, str. 490-517, ISBN 978-989-781-862-2

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Dubljević S., Tepavčević B., Markoski B., Anđelković A.: Computational BIM tool for automated LEED certification process, *Energy and Buildings*, 2023, Vol. 292, No. 113168, 1 August 2023, pp. 1-12, ISSN 0378-7788

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Obradović M., Mišić S., Vasiljević I., Ivetić D., Obradović R.: The Methodology of Virtualizing Sculptures and Drawings: A Case Study of the Virtual Depot of the Gallery of Matica Srpska, *Electronics (Basel)*, 2023, Vol. 12, No. 19, ISSN 2079-9292
2. Perišić A., Lazić M., Perišić I.: Assessment of Building Air Quality in Respect of Eight Different Urban Block Designs Based on CFD Simulations, *Applied Sciences*, 2023, Vol. 13, No. 13, ISSN 2076-3417
3. Perišić A., Lazić M., Perišić I.: Simulation-Based Engineering of Heterogeneous Collaborative Systems—A Novel Conceptual Framework, *Sustainability*, 2023, Vol. 15, No. 11, pp. 8804-8828, ISSN 2071-1050
4. Perišić A., Perišić I., Lazić M., Perišić B.: The foundation for future education, teaching, training, learning, and performing infrastructure - The open interoperability conceptual framework approach, *Heliyon*, 2023, Vol. 9, No. 6, pp. 1-16, ISSN 2405-8440

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Nedučin D., Škorić M., Marić Ognjenović M., Polić D.: Neighborhood satisfaction in large housing estates of Central and East European cities: Insights from Novi Sad, Serbia, *Journal of Housing and the Built Environment*, 2023, No. Published online 16 November 2023, ISSN 1566-4910
2. Stojaković V., Bajić Papuga B., Tepavčević B., Jovanović M.: Symmetry Group Effect on Perforated Image Perception, *Nexus Network Journal*, 2023, ISSN 1590-5896
3. Stojaković V., Tepavčević B.: Geometry to Fabrication in Architecture, *Nexus Network Journal*, 2023, ISSN 1590-5896
4. Štulić R., Jovanović M., Vučić M.: Maja Petrović, Radovan Štulić, Marko Jovanović, Marko Vučić, Branko Malešević: Cassinian Directorial Surfaces Modelling as Geometric Pattern in Designing Architectural Structures, *Tehnički vjesnik - Technical Gazette*, 2023, Vol. 30, No. 5, pp. 1611-1619, ISSN 1330-3651
5. Tepavčević B., Stojaković V., Jovanović M., Raković M.: Surface Patterns in Architecture Driven by Image Sampling and Robotic Fabrication, *Nexus Network Journal*, 2023, ISSN 1590-5896
6. Vasiljević I., Santoši Ž., Obradović M., Popkonstantinović B., Budak I., Obradović R.: Copyright Protection of 3D Digitized Sculptures by Use of Haptic Device for Adding Local-Imperceptible Bumps, *Tehnički vjesnik - Technical Gazette*, 2023, Vol. 30, No. 6, pp. 2001-2008, ISSN 1330-3651, UDK: 62(05)=163.42=111
7. Vučić M., Jovanović M., Raković M.: Fabricating Porous Structures using Robotic Hotwire Cutting, *Nexus Network Journal*, 2023, ISSN 1590-5896

### **Spisak rezultata M28 - Uređivanje međunarodnog naučnog časopisa**

1. Stojaković V., Tepavčević B.: Guest editor of special issue Geometry to Fabrication in Architecture, *Nexus Network Journal*, 2023, ISSN 1590-5896

### **Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Šunjević M., Vojinović-Miloradov M., Sremački M., Nedučin D.: Architectural elements as a part of urban transformations and migrations after COVID epidemic, 3. *International Conference on Sustainable Environment and Technologies "Creating sustainable commUNITY"*, Beograd, 22-23 September, 2023, pp. 33-40, ISBN 978-86-89529-40-1

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Bobić A., Jovanović M., Vasiljević I.: ENVIRONMENTAL GEOMETRY GENERATION IN VIDEO GAMES USING PHOTOGRAMMETRY AND DIGITAL SCULPTING, 9. *Mongeometrija*, Novi Sad, 7-10 June, 2023, ISBN 978-86-6022-575-9

2. Dubljević S., Kićanović J., Anđelković A.: Integration of building information modeling (BIM) and virtual reality technology (VR) for daylight analysis visualization, 9. *Mongeometrija*, Novi Sad, 7-10 June, 2023, pp. 69-77, ISBN 978-86-6022-575-9
3. Dubljević S., Tepavčević B., Anđelković A.: Computational BIM method for automated insight into BREEAM credits achievement in the refurbishment evaluation process of an existing building, 8. *SpliTech - International Conference on Smart and Sustainable Technologies*, Bol, 20-23 June, 2023, ISBN 978-953-290-127-6
4. Đurić I., Obradović M., Stojaković V.: Free software for image-based modeling education: Comparative analysis - advantages and disadvantages, 9. *Mongeometrija*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad; Serbian Society for Geometry and Graphics SUGIG, 7-10 June, 2023, ISBN 978-86-6022-575-9
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6. Lazić M., Perišić A.: Algorithm for geometry optimization of complex building floorplan footprints into a grid of quads, 8. *Mongeometrija*, Beograd, 10-12 September, 2021, pp. 33-43, ISBN 978-86-6022-575-9
7. Mitrović T., Vračarić M., Stojaković V.: VISIBILITY ANALYSIS OF URBAN SPACES: TEMPORARY STRUCTURE LAYOUTS RELATED TO THE QUALITY OF URBAN SEATING, 9. *Mongeometrija*, Novi Sad, 7-10 June, 2023, pp. 7-14, ISBN 978-86-6022-575-9
8. Obradović M.: VARIOUS CONCEPTS OF USER MOVEMENT WITHIN THE IMMERSIVE VIRTUAL SPACE IN ARCHITECTURE, 9. *Mongeometrija*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad; Serbian Society for Geometry and Graphics SUGIG, 7-10 June, 2023, ISBN 978-86-6022-575-9
9. Pašić I., Jovanović M.: Design and Simulation of Concrete Panels Cast in Stencil Constrained Fabric Formwork, 9. *Mongeometrija*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad, 7-10 June, 2023, pp. 25-32, ISBN 978-86-6022-575-9
10. Pavlović M., Jovanović M.: A Case Study of Acoustic Diffusers Impact on Echo Reduction in Auditoriums, 9. *Mongeometrija*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad, 7-10 June, 2023, pp. 43-54, ISBN 978-86-6022-575-9
11. Vučić M., Tepavčević B.: Design and Fabrication of Depolluting Facade System Elements, 9. *Mongeometrija*, Novi Sad: Faculty of Technical Sciences, 7-10 June, 2023, pp. 15-23, ISBN 978-86-6022-575-9

**Spisak rezultata M36 - Uređivanje zbornika saopštenja međunarodnog naučnog skupa**

1. Bajšanski I., Jovanović M.: Geometry, graphics and design in the digital age, 9. *Mongeometrija*, Novi Sad: GRID FTN, 7-10 June, 2023, ISBN 978-86-6022-575-9

**Spisak rezultata M53 - Rad u naučnom časopisu**

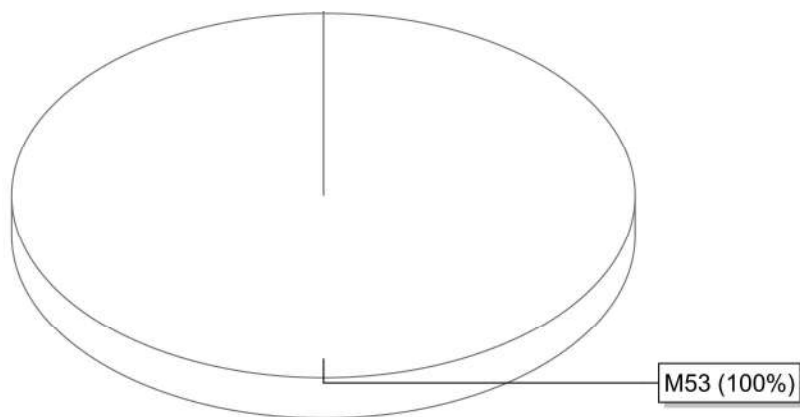
1. Dubljević S., Tepavčević B., Anđelković A.: Automatizacija procesa sertifikacije postojećeg građevinskog fonda, Klimatizacija Grejanje Hlađenje (KGH), 2023, Vol. 52, No. 3/2023, pp. 39-43, ISSN 0350-1426

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za umetnost

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u naučnom časopisu	M53	1



## PRODUKCIJA - REZULTATI

### *Spisak rezultata M53 - Rad u naučnom časopisu*

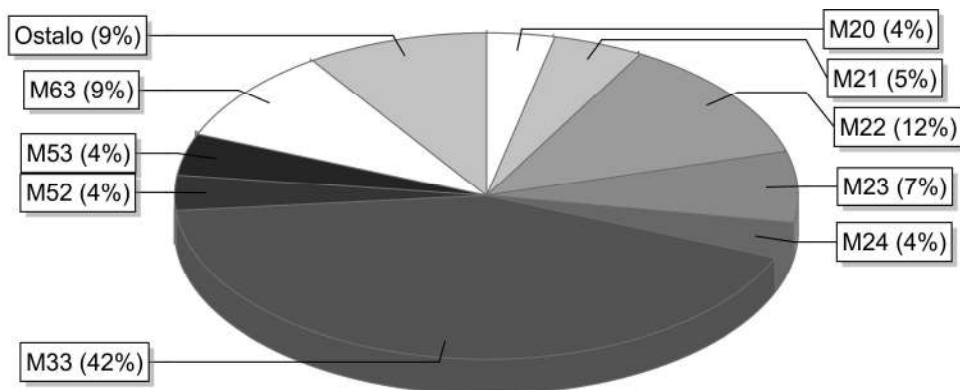
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Departman za industrijsko inženjerstvo i menadžment

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Glavni i odgovorni urednik nacionalnog časopisa	M29b	1
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	2
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	6
Rad u vrhunskom međunarodnom časopisu	M21	8
Rad u istaknutom međunarodnom časopisu	M22	21
Rad u međunarodnom časopisu	M23	12
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	6
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	72
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u časopisu nacionalnog značaja	M52	6
Rad u naučnom časopisu	M53	7
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	16
Odbranjena doktorska disertacija	M71	3
Novi proizvod ili tehnologija uvedeni u proizvodnju - međunarodni nivo	M81	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1



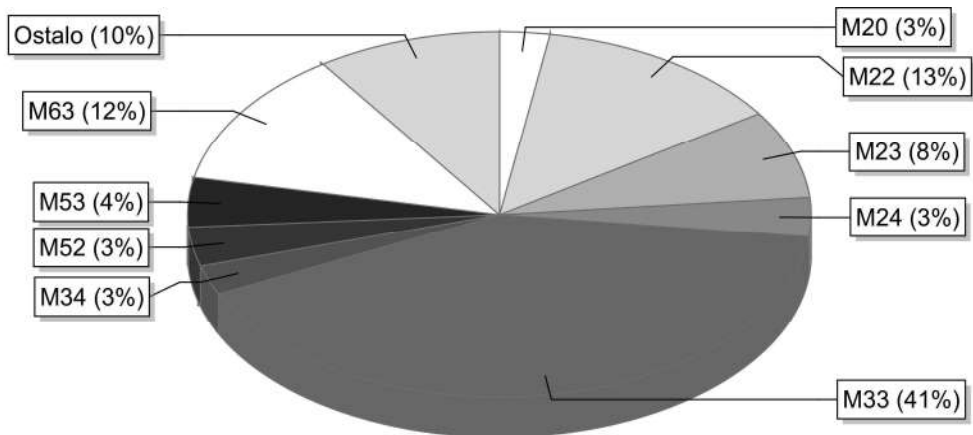


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za proizvodne sisteme, organizaciju i menadžment

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Glavni i odgovorni urednik nacionalnog časopisa	M29b	1
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	2
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	15
Rad u međunarodnom časopisu	M23	9
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	4
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Predavanje po pozivu sa međunarodnog skupa štampano u izvodu	M32	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	47
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u časopisu nacionalnog značaja	M52	4
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	14
Odbranjena doktorska disertacija	M71	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M29b - Glavni i odgovorni urednik nacionalnog časopisa**

1. Marjanović U.: Celebrating a Milestone: Journal Impact Factor Achievement and the Future of the IJIEM, Novi Sad, University of Novi Sad, Faculty of Technical Sciences, 2023, str. 183-185

### **Spisak rezultata M13 - Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja**

1. Medojević M., Vasiljević-Toskić M.: Implementation of Deep Learning to Prevent Peak-Driven Power Outages Within Manufacturing Systems, Springer Cham, 2023, str. 29-44, ISBN 978-3-031-29716-8
2. Njegomir V., Demko-Rihter J.: InsurTech: New Competition to Traditional Insurers and Impact on the Economic Growth. In: Benković, S., Labus, A., Milosavljević, M. (eds) Digital Transformation of the Financial Industry., Cham, Springer, Cham, 2023, ISBN 978-3-031-23268-8

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Dakić D., Stefanović D., Vučković T., Žižakov M., Stevanov B.: Event Log Data Quality Issues and Solutions, Mathematics, 2023, Vol. 11, No. 13, pp. 1-39, ISSN 2227-7390
2. Gradojević N., Kukolj D., Adcock R., Đaković V.: Forecasting Bitcoin with technical analysis: A not-so-random forest?, International Journal of Forecasting, 2023, Vol. 39, No. 1, pp. 1-17, ISSN 0169-2070
3. Orošnjak M., Brkljač N., Šević D., Čavić M., Oros D., Penčić M.: From predictive to energy-based maintenance paradigm: Achieving cleaner production through functional-productiveness, Journal of Cleaner Production, 2023, Vol. 408, No. 137177, ISSN 0959-6526

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Demko-Rihter J., Sekerez V., Spasić D., Conić N.: The Neglected Focus on Managerial Aspect of Transfer Pricing Policy in Multidivisional Companies—Case of Serbia, Systems, 2023, ISSN 2079-8954
2. Rakić S., Medić N., Leoste J., Vučković T., Marjanović U.: Development and Future Trends of Digital Product-Service Systems: A Bibliometric Analysis Approach, Applied System Innovation, 2023, Vol. 6, No. 5, ISSN 2571-5577

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Bajić B., Suzić N., Morača S., Miladin S., Miloš J., Rikalović A.: Edge Computing Data Optimization for Smart Quality Management: Industry 5.0 Perspective, Sustainability, 2023, Vol. 15, No. 7, ISSN 2071-1050
2. Bajić B.: Machine Learning for Water Quality Assessment Based on Macrophyte Presence, Sustainability, 2023, Vol. 15, No. 1, ISSN 2071-1050
3. Ćirić Lalić D.: Project portfolio management in telecommunication company: A stage-gate approach for effective portfolio governance, Advances in Production Engineering and Management, 2023, Vol. 18, No. 3, pp. 357-370, ISSN 1854-6250
4. Demko-Rihter J., Sassanelli C., Pantelic M., Anišić Z.: A Framework to Assess Manufacturers' Circular Economy Readiness Level in Developing Countries: An Application Case in a Serbian Packaging Company, Sustainability, 2023, Vol. 15, No. 8, ISSN 2071-1050
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4. Ružić D., Radošević M., Simikić M., Baloš S.: Neadekvatne korektivne intervencije na poljoprivrednoj mehanizaciji ili njihov izostanak kao uzrok nezgoda, *Traktori i pogonske mašine*, 2023, Vol. 28, No. 3/4, pp. 41-47, ISSN 0354-9496, UDK: 621.791
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2. Bojanić R., Radumilo B., Živkov Šaponja D., Todić V.: Neusklađenost obrazovnog sistema i tržišta rada ozbiljna pretnja privredi R. Srbije, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, Novi Sad, 8-11 Februar, 2023, pp. 307-310, ISBN 978-86-6022-554-4
3. Grubić-Nešić L., Sitarević A., Nešić Tomašević A.: Preconditions for Professional Identity Development: Are the Outcomes of the Educational Process Clear?, 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 235-238
4. Medić N., Delić M., Todorović T., Fajsi A., Tasić N.: Ključni indikatori performansi u visokom obrazovanju: unapređenje saradnje visokoobrazovnih institucija sa privredom, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, Univerziteta u Novom Sadu, 8-11 Februar, 2023, pp. 330-333, ISBN 978-86-6022-554-4
5. Milić B., Spajić (Stanković) J., Bošković (Vujičić) D., Lalić D.: INSTAGRAM KAO PLATFORMA ZA E-UČENJE U VISOKOM OBRAZOVANJU, 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 8-11 Februar, 2023, pp. 296-299, ISBN 978-86-6022-554-4
6. Ostojčić G., Lazarević M., Lubura S., Popović N., Stankovski S.: Implementacija sistema za praćenja paleta primenom jednostavnih identifikacionih oznaka, 10. *International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 Jun, 2023
7. Ralević N., Đaković V.: MATEMATIKA U TEHNICI: PRIMENA INOVATIVNIH INŽENJERSKIH METODA, TEHNIKA I ALATA, 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Univerzitet u Novom Sadu i Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 56-59, ISBN 978-86-6022-554-4, UDK: 378(082)
8. Rikalović A., Simeunović N., Marjanović U., Rakić S.: Basic Industry 5.0 Concepts: Challenges and Opportunities, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 170-173, ISBN 978-86-6022-554-4
9. Rikalović A.: Information Security at the University of Novi Sad in regards to the protection of personal data, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 162-165, ISBN 978-86-6022-554-4
10. Slavić D., Simeunović N., Marjanović U., Rikalović A., Živkov Šaponja D., Rakić S.: Osnovni koncepti Industrije 5.0: Izazovi i mogućnosti, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 170-174
11. Spajić (Stanković) J., Milić B., Bošković (Vujičić) D., Lalić D.: VEŠTAČKA INTELIGENCIJA: NOVA STVARNOST U VISOKOM OBRAZOVANJU, 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 8-11 Februar, 2023, pp. 281-284, ISBN 978-86-6022-554-4
12. Tomić D., Lazarević M., Ostojčić G., Sremčev N., Antić A.: PRIMENA LEANA KAO PRIPREMA ZA DIGITALIZACIJU U USLUGAMA, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 377-382
13. Vidović D., Sremčev N., Jerinić B.: Koraci u implementaciji LEAN metodologije, 14. *Skup privrednika i naučnika - SPIN*, Beograd: Univerzitet u Beogradu - Fakultet organizacionih nauka, 6-7 Novembar, 2023, pp. 475-483, ISBN 978-86-7680-446-7
14. Vuković M., Kaštelan I., Miškić M.: Conventional Traffic Light Signalization vs Traffic Light Signalization Based on Renewable Energy Sources: Feasibility and Challenges, 18. *Road Safety in Local Community*, Kopaonik, 19-22 April, 2023, pp. 64-70

#### **Spisak rezultata M71 - Odbranjena doktorska disertacija**

1. Vekić A.: Faktori razvoja inovativnog startap ekosistema, Novi Sad, 2023

#### **Spisak rezultata M82 - Nova proizvodna linija, novi materijal, industrijski prototip,**

1. Morača S., Rikalović A., Bajić B.: Rano otkrivanje neusklađenosti procesnih parametara za detekciju proizvoda nedovoljnog kvaliteta u procesnoj industriji, 2023

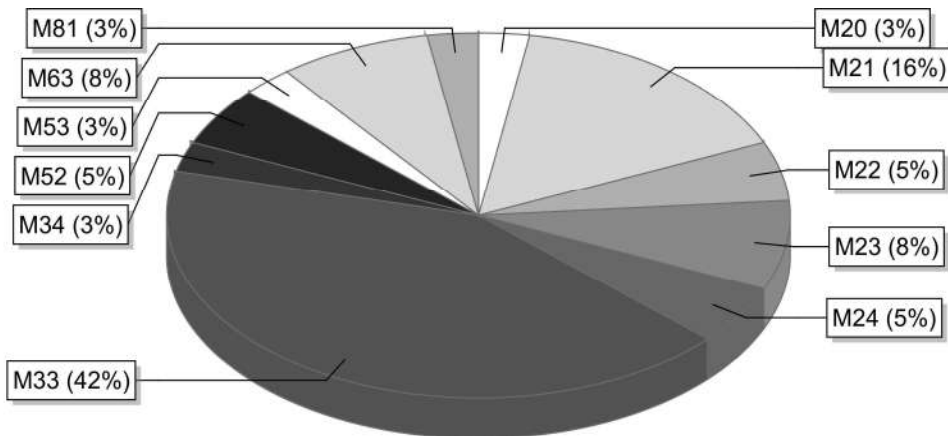


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

### Katedra za mehatroniku, robotiku i automatizaciju

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	6
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	3
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	16
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u časopisu nacionalnog značaja	M52	2
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	3
Novi proizvod ili tehnologija uvedeni u proizvodnju - međunarodni nivo	M81	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Orošnjak M., Brkljač N., Šević D., Čavić M., Oros D., Penčić M.: From predictive to energy-based maintenance paradigm: Achieving cleaner production through functional-productiveness, *Journal of Cleaner Production*, 2023, Vol. 408, No. 137177, ISSN 0959-6526

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Lužanin O., Gudurić V., Bernhardt A., Movrin D., Damjanović-Vasilić Lj., Terek P., Ostojić G., Stankovski S.: Impact of In-Process Crystallinity of Biodegradable Scaffolds Fabricated by Material Extrusion on the Micro- and Nanosurface Topography, Viability, Proliferation, and Differentiation of Human Mesenchymal Stromal Cells (<https://doi.org/10.3390/polym15061468>), *Polymers*, 2023, Vol. 15, No. 1468, ISSN 2073-4360
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3. Petrović B., Kojić S., Milić L., Luzio A., Perić T., Marković E., Stojanović G.: Toothpaste ingestion-evaluating the problem and ensuring safety: systematic review and meta-analysis, *Frontiers in Public Health*, 2023, Vol. 11, pp. 1-12, ISSN 2296-2565
4. Popović Ž., Thiha A., Ibrahim F., Petrović B., Dahlan N., Milić L., Kojić S., Stojanović G.: Oral micro-electronic platform for temperature and humidity monitoring, *Scientific Reports*, 2023, Vol. 13, No. 21277, pp. 1-12, ISSN 2045-2322
5. Štrbac Lj., Pracner D., Šaran M., Janković D., Trivunović S., Ivković M., Tarjan L., Dedović N.: Mathematical Modeling and Software Tools for Breeding Value Estimation Based on Phenotypic, Pedigree and Genomic Information of Holstein Friesian Cattle in Serbia (<https://doi.org/10.3390/ani13040597>) (IF: 3.231 (2021)), *Animals*, 2023, Vol. 13, No. 4, pp. 1-22, ISSN 2076-2615
6. Zhang X., Li Y., Hong T., Tegeltija S., Babić M., Wang X., Ostojić G., Stankovski S., Marinković D.: Response Characteristics Study of Ethylene Sensor for Fruit Ripening under Temperature Control (DOI: <https://doi.org/10.3390/s23115203>), *Sensors*, 2023, Vol. 23, No. 11, ISSN 1424-8220

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Protić D., Stanković M., Prodanović R., Vulić I., Stojanović G., Simić M., Ostojić G., Stankovski S.: Numerical Feature Selection and Hyperbolic Tangent Feature Scaling in Machine Learning-Based Detection of Anomalies in the Computer Network Behavior (<https://doi.org/10.3390/electronics12194158>), *Electronics (Basel)*, 2023, Vol. 12, No. 19, pp. 1-20, ISSN 2079-9292
2. Sarang S., Stojanović G., Driberg M., Stankovski S., Bingi K., Jeoti V.: Machine Learning Prediction based Adaptive Duty Cycle MAC Protocol for Solar Energy Harvesting Wireless Sensor Networks, *IEEE Access*, 2023, pp. 17536-17554, ISSN 2169-3536

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Šulc J., Vidicki P., Reljić V., Milenković I., Dudić S.: Augmented Reality as an Aid to Collaborative and Autonomous Learning in Engineering Education, *Journal of Scientific and Industrial Research*, 2023, Vol. 82, No. 7, pp. 736-744, ISSN 0022-4456
2. Tepavčević B., Stojaković V., Jovanović M., Raković M.: Surface Patterns in Architecture Driven by Image Sampling and Robotic Fabrication, *Nexus Network Journal*, 2023, ISSN 1590-5896
3. Vučić M., Jovanović M., Raković M.: Fabricating Porous Structures using Robotic Hotwire Cutting, *Nexus Network Journal*, 2023, ISSN 1590-5896

### **Spisak rezultata M24 - Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom**

1. Šešlija M., Reljić V., Mladenović V., Novaković M., Jovanović Z.: Development of the algorithm for implementation of energy-efficient compressed air systems with energy recovery, *Facta universitatis - series: Electronics and Energetics*, 2023, Vol. 36, No. 4, pp. 577-588, ISSN 0353-3670
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### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Dakić N., Reljić V., Milenković I., Dudić S., Jurošević V., Šulc J.: Application for Pneumatic Component Detection, *6. Experiment@ International Conference*, Evora: University of Evora, IEEE, 5-7 June, 2023, pp.

2. Knežević T., Radmilović M., Borojević J., Šumarac J., Švaco M., Raković M.: Physical education exercises validation through child-humanoid robot interaction, *32. IEEE International Conference on Robotics in Alpe-Adria-Danube Region - RAAD*, Bled: Springer Cham, 14-16 June, 2023, ISBN 978-3-031-32606-6
3. Kukolj D., Mastilović J., Kevrešan Ž., Kovač R., Ostojić G., Stankovski S., Nemet S.: Trends and Applications in Patent Databases for the Blockchain Technology on Use Case : Products Traceability in Food Supply Chain, *22. International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023, pp. 1-4
4. Lazarević M., Vidović D., Ostojić G., Stakić N.: APPLICATION OF MODERN TECHNOLOGIES IN THE SUPPLY CHAIN, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: University of Novi Sad, 5-6 October, 2023
5. Milenković I., Dakić N., Jurošević V., Šulc J., Dudić S.: Applying the Experience of the Technical Passport Towards the EU Digital Product Passport, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, Novi Sad, Serbia, 5-6 October, 2023, pp. 24-27
6. Nikolić M., Borovac B., Raković M., Žigić M.: Center of Mass Wrench Constraints in Presence of Spatially Distributed Contacts, *32. IEEE International Conference on Robotics in Alpe-Adria-Danube Region - RAAD*, Bled: Springer Cham, 14-16 June, 2023, pp. 325-333, ISBN 978-3-031-32605-9
7. Oros D., Penčić M., Čavić M., Orošnjak M., Čavić D., Lu Z.: PAM Actuators Applications in Robotics: Rapid Review, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo: IEEE Xplore, New York, 5-8 June, 2023, pp. 1-6, ISBN 979-8-3503-0711-5, UDK: DOI: 10.1109/IcETRAN59631.2023.10192233
8. Orošnjak M., Jocanović M., Penčić M., Oros D.: From Signals to Insights: Uncovering Latent Degradation with Deep Learning as a stepping stone towards Digital Twins of Failures (DTFs), *7. International Conference on System Reliability and Safety*, Bologna: IEEE Reliability Society, 22-24 November, 2023, pp. 371-375, ISBN 978-8-3503-0605-7
9. Radaković N., Šenk I., Romanić N.: A Machine Learning Pipeline Implementation Using MLOps and GitOps Principles, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, 5-6 October, 2023, pp. 94-99, UDK: [https://doi.org/10.24867/IS-2023-T2.1-6\\_08141](https://doi.org/10.24867/IS-2023-T2.1-6_08141)
10. Reljić V., Šešlija D., Jurošević V., Mladenović V.: Conceptual Solution of the Training Kits for Critical Infrastructure Cyber Security – Case Study: Open-loop Pumped Storage Hydropower, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad, 5-6 October, 2023, pp. 78-83
11. Reljić V., Šešlija D., Jurošević V., Mladenović V.: The Influence of Refrigerated Dryers on the Compressed Air Quality, *7. Politehnika*, Beograd: The Academy of Applied Technical Studies Belgrade, 15 December, 2023, pp. 1155-1160, ISBN 978-86-7498-110-8
12. Stankovski S., Ostojić G.: TRACEABILITY IN AGRI-FOOD PRODUCTION AND SUPPLY CHAINS, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad, 5-6 October, 2023
13. Šenk I., Tarjan L., Tegeltija S., Reljić V., Babić M., Stanojević M.: Development of an IIOT-Ready Conveyor System, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, 5-6 October, 2023, pp. 66-71, ISBN 978-86-6022-623-7, UDK: 658.5(082), ISSN 3009-4526, [https://doi.org/10.24867/IS-2023-T2.1-1\\_04641](https://doi.org/10.24867/IS-2023-T2.1-1_04641)
14. Šulc J., Dudić S., Milenković I., Dakić N.: Development of a user application for optimizing the procedure of compressed air consumption calculation, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, Novi Sad, Serbia, 5-6 October, 2023, pp. 84-87
15. Tarjan L., Šenk I., Stanojević M., Babić M., Jovanović D., Rikić D., Tegeltija S.: Simulation of the traffic light optimization algorithm based on the current traffic frequency (<https://ieeexplore.ieee.org/xpl/conhome/10094039/proceeding>), *22. International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023, pp. 1-5, ISBN 978-1-6654-7546-4
16. Tegeltija S., Ostojić G., Tejić B., Stanojević M., Stankovski S., Lubura S., Kukrić N.: One Solution of Low-Cost Modular Control Device based on IoT, *22. International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Tarjan L., Šenk I., Pracner D., Štrbac Lj., Šaran M., Ivković M., Dedović N.: Application of Machine Learning in Estimating Milk Yield According to the Phenotypic and Pedigree Data of Holstein-Friesian Cattle in Serbia (<https://doi.org/10.5281/zenodo.10012555>), *1. International Symposium on Animal Science - ISAS 2023*,

Novi Sad: Faculty of Agriculture, University of Novi Sad (Serbia), 18-20 September, 2023, pp. 8-8, ISBN 978-86-7520-593-7, UDK: 636(048.3)

**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Kukolj D., Ostojčić G., Stankovski S., Nemet S., Mastilović J., Kevrešan Ž., Ubiparip Samek D., Đerić M.: Modelling of the Patent Portfolio Technology Space: IPC Codes Clustering of Blockchain Applications in the Food Supply Chain, *Journal of Mechatronics, Automation and Identification Technology – JMAIT*, 2023, Vol. 8, No. 1, pp. 1-6, ISSN 2466-3603
2. Stankovski S., Ostojčić G.: Opportunities of Generative AI Applications and Tools in Code Generation for Automation Devices, *Journal of Mechatronics, Automation and Identification Technology – JMAIT*, 2023, Vol. 8, No. 3, pp. 1-5, ISSN 2466-3603

**Spisak rezultata M53 - Rad u naučnom časopisu**

1. Šešlija D., Milenković I., Reljić V., Mladenović V., Adamović M.: Održivo upravljanje osvetljenjem, *DIT Naučno stručno informativni časopis*, 2023, No. 40, pp. 45-57, ISSN 0354-7140

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Čopić N., Pljakić M., Tarjan L., Jovanović D.: Primjena dron tehnologije i vještačke inteligencije za prikupljanje podataka na mikro mreži u saobraćajnom inženjerstvu, *12. Međunarodna konferencija "Bezbednost saobraćaja u lokalnoj zajednici"*, Banja Luka: Agencija za bezbednost saobraćaja Republike Srpske, 26-27 Oktobar, 2023, pp. 26-37, ISBN 978-99976-160-3-6, UDK: 623.746.2-519:007.52
2. Ostojčić G., Lazarević M., Lubura S., Popović N., Stankovski S.: Implementacija sistema za praćenja paleta primenom jednostavnih identifikacionih oznaka, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 Jun, 2023
3. Tomić D., Lazarević M., Ostojčić G., Sremčev N., Antić A.: PRIMENA LEANA KAO PRIPREMA ZA DIGITALIZACIJU U USLUGAMA, *29. Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 377-382

**Spisak rezultata M81 - Novi proizvod ili tehnologija uvedeni u proizvodnju - međunarodni nivo**

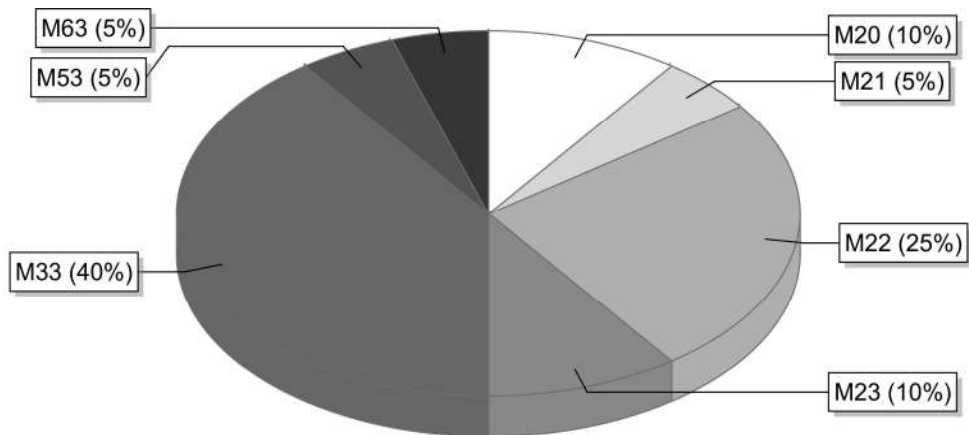
1. Raković M., Mišković D., Milić L., Čilag A., Berisavljević T.: Automatizacija fabričkih procesa kroz integraciju mobilnog i industrijskog robota, 2023

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

## Katedra za informaciono-komunikacione sisteme

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Dakić D., Stefanović D., Vučković T., Žižakov M., Stevanov B.: Event Log Data Quality Issues and Solutions, *Mathematics*, 2023, Vol. 11, No. 13, pp. 1-39, ISSN 2227-7390
2. Vještica M., Dimitrieski V., Pisarić M., Kordić (Aleksić) S., Ristić S., Luković I.: Production processes modelling within digital product manufacturing in the context of Industry 4.0, *International Journal of Production Research*, 2023, Vol. 61, No. 19, pp. 6271-6290, ISSN 0020-7543

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Rakić S., Medić N., Leoste J., Vučković T., Marjanović U.: Development and Future Trends of Digital Product-Service Systems: A Bibliometric Analysis Approach , *Applied System Innovation*, 2023, Vol. 6, No. 5, ISSN 2571-5577

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

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2. Perišić A., Lazić M., Perišić I.: Assessment of Building Air Quality in Respect of Eight Different Urban Block Designs Based on CFD Simulations, *Applied Sciences*, 2023, Vol. 13, No. 13, ISSN 2076-3417
3. Perišić A., Lazić M., Perišić I.: Simulation-Based Engineering of Heterogeneous Collaborative Systems—A Novel Conceptual Framework, *Sustainability*, 2023, Vol. 15, No. 11, pp. 8804-8828, ISSN 2071-1050
4. Vučković T., Stefanović D., Ćirić Lalić D., Rogério D., Ângela ., Pržulj Đ.: The Extended Information Systems Success Measurement Model: e-Learning Perspective, *Applied Sciences*, 2023, Vol. 13, No. 5, ISSN 2076-3417
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1. Antanasijević D., Vještica M., Grubić-Nešić L., Dimitrieski V., Pisarić M., Ristić S.: An Organizational Perspective of Human Resource Modeling, *IPSI Transactions on Advanced Research*, 2023, Vol. 19, No. 2, pp. 64-75, ISSN 1820-4511
2. Stefanović M., Pržulj Đ., Stefanović D., Ristić S., Čapko D.: The Proposal of New Ethereum Request for Comments for Supporting Fractional Ownership of Non-Fungible Tokens, *Computer Science and Information Systems*, 2023, Vol. 20, No. 3, pp. 1133-1155, ISSN 1820-0214

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Crnobrnja J., Stefanović D., Romero D., Softic S., Marjanović U.: Digital Transformation Towards Industry 5.0: A Systematic Literature Review, 28. *Advances in Production Management Systems (APMS)*, Trondheim: Springer, 17-21 September, 2023, pp. 269-281
2. Fabri V., Stefanović M., Pržulj Đ., Vučković T., Dionisio R.: Industrial Internet of Things (IIOT) - Security Weaknesses and Most Common Types of Attacks - A Systematic Literature Review, 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad, 5-6 October, 2023
3. Gladić D., Petrovački J., Ristić S., Stefanović D., Čeliković M.: The Role of Big Data in Industry 4.0: A Systematic Literature Review, 13. *International conference on information society and technology*, Kopaonik: Information Society of Serbia - ISOS, 12-15 March, 2023, pp. 131-142, ISBN 978-86-85525-24-7
4. Gutai A., Havzi S., Nikolić D., Dakić D.: Potential of Mass Customization using Product Configurators, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023
5. Gutai A.: DRAWING AUTOMATION APPROACH USING SOLIDWORKS API , 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad, 5-6 October, 2023
6. Kijanović S., Komosar A.: Research on Open Data Practice Within Education, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)*, Jahorina: IEEE, 15-17 March, 2023, ISBN 978-1-6654-7547-1
7. Medojević M., Vasiljević-Toskić M., Ćulibrk D., Šolić P., Perković T., Medojević M.: Design and development of an IoT learning system for health-related applications, 8. *SpliTech - International Conference on Smart and Sustainable Technologies*, Bol: IEEE, 20-23 June, 2023, pp. 1-5, ISBN 978-953-290-128-3

8. Savković M., Ćirić Lalić D., Vučković T., Gračanin D., Vujičić M.: ORGANISATIONAL AGILITY, PROJECT RESILIENCE, AND HIGH PERFORMANCE WORK PRACTICES: A RECIPE FOR PROJECT SUCCESS , 27. *International Congress on Project Management and Engineering* , San Sebastian: Asociacion Espanola de Direccion e Ingenieria de Proyectos (AEIPRO), 10-13 July, 2023, pp. 227-239, ISBN 978-840955466-9

**Spisak rezultata M53 - Rad u naučnom časopisu**

1. Antanasijević D., Ristić S., Vještica M., Stefanović D., Dimitrieski V., Pisarić M.: A PROTOTYPE OF A DOMAIN-SPECIFIC MODELING LANGUAGE FOR FORMAL SPECIFICATION OF A HUMAN WORKER, *Acta Electrotechnica et Informatica*, 2023, Vol. 23, No. 2, pp. 33-40, ISSN 1335-8243

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

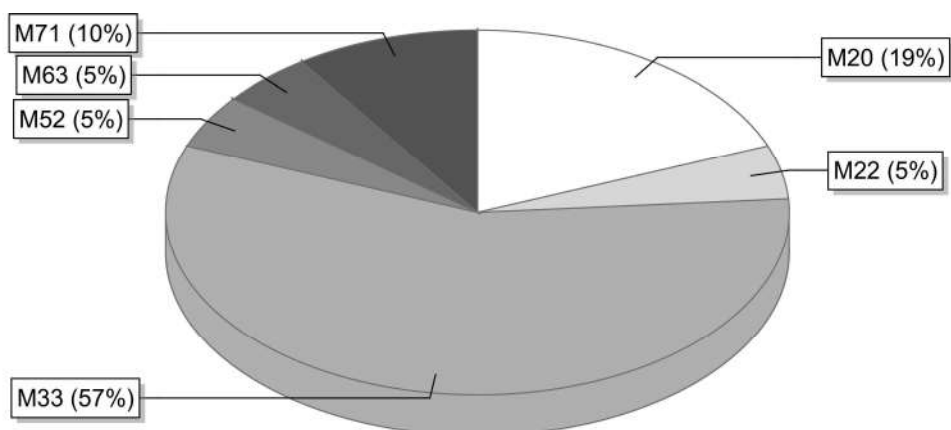
1. Todorčić A.: Importance and application of Salesforce in modern business, 22. *International Symposium INFOTEH-JAHORINA (INFOTEH)* , Jahorina: IEEE, 15-17 Mart, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za kvalitet, efektivnost i logistiku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	4
Rad u istaknutom međunarodnom časopisu	M22	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	12
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Odbranjena doktorska disertacija	M71	2





## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

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2. Orošnjak M., Brkljač N., Šević D., Čavić M., Oros D., Penčić M.: From predictive to energy-based maintenance paradigm: Achieving cleaner production through functional-productiveness, *Journal of Cleaner Production*, 2023, Vol. 408, No. 137177, ISSN 0959-6526
3. Orošnjak M., Šević D.: Benchmarking Maintenance Practices for Allocating Features Affecting Hydraulic Systems Maintenance: A West-Balkan Perspective, *Mathematics*, 2023, Vol. 11, No. 18, ISSN 2227-7390
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### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

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### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Brkljač N., Ristić K., Vasić S., Milisavljević S., Vrhovac V., Žižakov M.: IDENTIFICATION OF THE INTERDEPENDENT INFLUENCES OF MOTIVATORS FOR ENVIRONMENTAL PROTECTION IN REVERSE LOGISTICS IN THE CONDITIONS OF A DEVELOPING ECONOMY, 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: FACULTY OF TECHNICAL SCIENCES, 5-6 October, 2023, pp. 222-229, ISBN 978-86-6022-623-7
2. Dudić Ž., Vrhovac V., Vajagić N., Todorović-Dudić A., Zorić N.: E-Auctions as a tool for digital transformation of procurement, 5. *ASES INTERNATIONAL HEALTH, ENGINEERING AND SCIENCES CONGRESS*, Ankara: ASES PUBLICATIONS, 19-21 March, 2023, pp. 110-115, ISBN 978-605-72042-9-5
3. Lazarević M., Tomić D., Jocanović M., Duđak Lj., Bunčić S.: STANDARDISATION OF WORK AS PART OF THE IMPLEMENTATION OF THE LEAN STRATEGY IN SERVICES, 19. *International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: University of Novi Sad, 5-6 October, 2023
4. Oros D., Penčić M., Čavić M., Orošnjak M., Čavić D., Lu Z.: PAM Actuators Applications in Robotics: Rapid Review, 10. *International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo: IEEE Xplore, New York, 5-8 June, 2023, pp. 1-6, ISBN 979-8-3503-0711-5, UDK: DOI: 10.1109/IcETRAN59631.2023.10192233
5. Orošnjak M., Jocanović M., Penčić M., Oros D.: From Signals to Insights: Uncovering Latent Degradation with Deep Learning as a stepping stone towards Digital Twins of Failures (DTFs), 7. *International Conference on System Reliability and Safety*, Bologna: IEEE Reliability Society, 22-24 November, 2023, pp. 371-375, ISBN 978-8-3503-0605-7
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11. Zorić N., Vrhovac V., Milisavljević S., Dudić Ž., Conić N.: The Importance of blockchain technology in the management of the modern supply chain, 1. *INTERNATIONAL SCIENTIFIC CONFERENCE: „CHALLENGES OF MODERN ECONOMY AND SOCIETY THROUGH THE PRISM OF GREEN ECONOMY AND SUSTAINABLE DEVELOPMENT“ – CESGED*, Novi Sad: Educational and business center for development of human resources, management and sustainable development, Novi Sad, Serbia, 27-30 April, 2023, pp. 298-304, ISBN 978-86-81506-23-3
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**Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Delić M., Medić N., Todorović T., Todić V.: Fostering Organizational with Technological Innovations: The EMS Research Framework, *Journal of Mechatronics, Automation and Identification Technology – JMAIT*, 2023, Vol. 8, No. 4, pp. 1-4, ISSN 2466-3603

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Medić N., Delić M., Todorović T., Fajsi A., Tasić N.: Ključni indikatori performansi u visokom obrazovanju: unapređenje saradnje visokoobrazovnih institucija sa privredom, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, Univerziteta u Novom Sadu, 8-11 Februar, 2023, pp. 330-333, ISBN 978-86-6022-554-4

**Spisak rezultata M71 - Odbranjena doktorska disertacija**

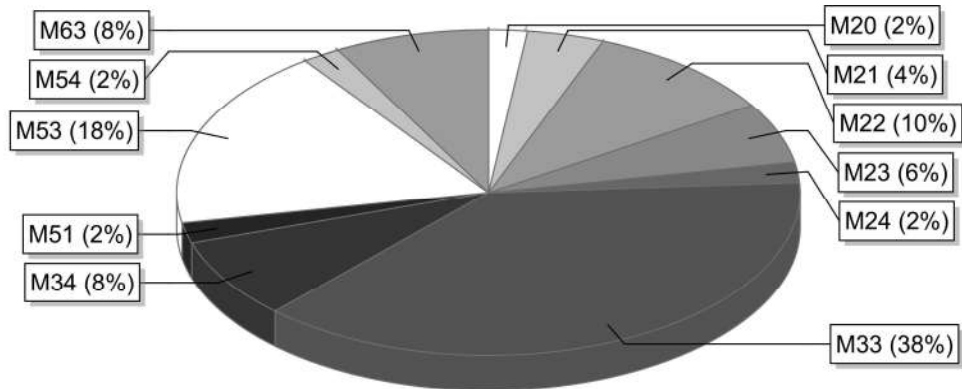
1. Vrhovac V.: Integrisan logistički model isporuke u funkciji zadovoljstva korisnika e-trgovine, Novi Sad, 2023
2. Žižakov M.: Uticaj menadžmenta kvalitetom i menadžmenta znanjem na razvoj inovacija procesa, Fakultet tehničkih nauka, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za grafičko inženjerstvo i dizajn

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	3
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	19
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	9
Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)	M54	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	4

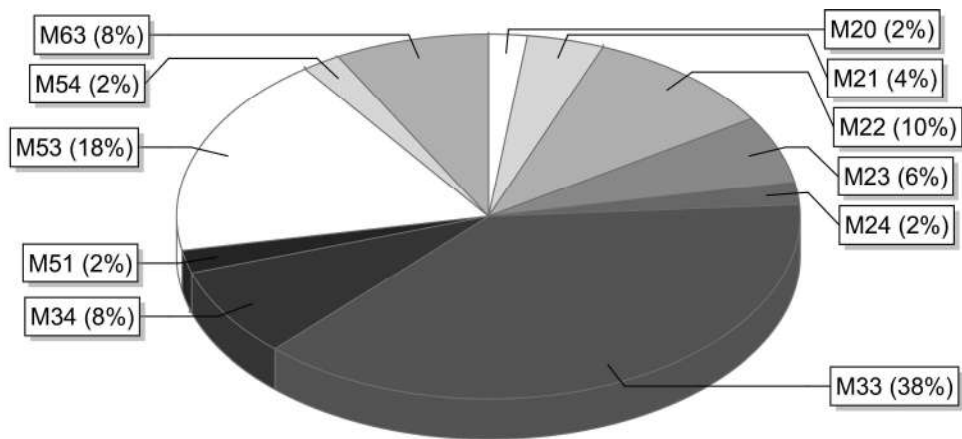


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za grafičko inženjerstvo i dizajn

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	3
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	19
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	9
Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)	M54	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	4



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Erceg T., Vukić (Skerlić) N., Šovljanski O., Teofilović V., Porobić S., Baloš S., Kojić S., Terek P., Banjanin B., Rakić S.: Preparation and characterization of biodegradable cellulose acetate-based films with novel plasticizer obtained by polyethylene terephthalate glycolysis intended for active packaging, *Cellulose*, 2023, ISSN 0969-0239

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Pinčjer I., Miketić N., Gvoić V., Maričić K., Vukelić Đ., Prica M.: Optimization of tensile strength in the paper material cutting process based on CO2 laser process parameters, Article Number: 2719, *Materials*, 2023, Vol. 16, No. 7, ISSN 1996-1944
2. Tubić (rođ. Aleksić) A., Vujić rođ. Lončarski M., Gvoić V., Agbaba J., Vasiljević S., Cvetičanin L., Vukelić Đ., Prica M.: Sorption potential of microplastics for azo- and phthalocyanine printing dyes, Article Number: 110884, *Dyes and Pigments*, 2023, Vol. 209, ISSN 0143-7208

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Bijelić I., Milovanović V., Vukelić Đ., Simunović G., Prica M., Šokac M., Tadić B.: Application of Sodium Silicate as a Phase Change Material in Fixture Design, *Tehnički vjesnik - Technical Gazette*, 2023, Vol. 30, No. 2, pp. 465-473, ISSN 1330-3651
2. Jurić (Rilovski) I., Zdravković S., Kašiković N., Dedijer S., Pál (Apro) M., Pavlović Ž., Karlovits I.: Comparative study of different methods for the assessment of print nonuniformity and their correlation with the human visual system, *Coloration Technology*, 2023, ISSN 1472-3581
3. Kerkez Đ., Bečelić-Tomin M., Gvoić V., Kulić Mandić A., Leovac Mačerak A., Tomašević Pilipović D., Pešić V.: Pyrite Cinder as an Effective Fenton-like Catalyst for the Degradation of Reactive Azo Dye: Effects of Process Parameters and Complete Effluent Characterization, *Catalysts*, 2023, Vol. 13, No. 2, ISSN 2073-4344
4. Kočović V., Vukelić Đ., Kostić S., Bijelić I., Prica M., Tadić B.: Micro-cutting of holes by centrifugal force, *International Journal of Advanced Manufacturing Technology*, 2023, Vol. 124, pp. 1437-1455, ISSN 0268-3768
5. Rani M., Ducoli S., Depero L., Prica M., Tubić (rođ. Aleksić) A., Ademović Z., Morisson L., Federici S.: A Complete Guide to Extraction Methods of Microplastics from Complex Environmental Matrices, *Molecules*, 2023, Vol. 28, No. 15, ISSN 1420-3049

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Kašiković N., Jurić (Rilovski) I., Randjelović D., Spiridonov I., ŻOLEK-TRYZNOWSKA Z., BOEVA R., Petrović S.: Influence of Paper Properties and Printing Machines Properties on Optical Density in Electrophotography, *Tehnički vjesnik - Technical Gazette*, 2023, Vol. 30, No. 2(2023), pp. 481-485, ISSN 1330-3651
2. Miketić N., Pinčjer I., Milić N., Bošnjaković G.: Search performance and aesthetics: Harmonious colours and grouping for a better user interface, *Tehnički vjesnik - Technical Gazette*, 2023, Vol. 30, No. 2, ISSN 1330-3651
3. Samardžić S., Mihailović A., Adamović (Majkić) S., Adamović D., Banjanin B., Rajs V., Lakatoš R.: Noise and lighting as physical stressors in a printing laboratory - A case study, *Environmental Engineering and Management Journal*, 2023, Vol. 22, No. 3, pp. 595-606, ISSN 1582-9596

### **Spisak rezultata M24 - Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom**

1. Vujičić Đ., Dedijer S., Stančić M., Ružičić B., Majarić I.: Comparison of colourimetric results obtained by spherical and spectrophotometer with directional geometry on samples with extreme UV varnish application, *Journal of Graphic Engineering and Design*, 2023, Vol. 14, No. 4, pp. 25-31, ISSN 2217-379X

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Adamović (Majkić) S., Milošević R., Banjanin B., Tomić I., Gvoka T.: Chemical resistance analysis of inkjet printed ceramic tiles, *4. International Printing Technologies Symposium*, Istanbul: Printing Industry Education Foundation, Istanbul, Turkey, 5-6 October, 2023, pp. 105-109, ISBN 978-605-70806-3-9
2. Adamović D., Crnjak C., Adamović (Majkić) S.: Particulate matter in the indoor air of a bakery, *1. FIRST INTERNATIONAL EUROSIA CONFERENCE - EUROSIA2023*, Brzeće: Faculty of Technical Sciences Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 12-15 September, 2023, pp. 1-7, ISBN 978-86-6022-621-3

3. Banjanin B., Milić N., Kerac J., Milošević R., Adamović (Majkić) S.: Applications of real-time rendering game engine in education through practices and initiatives, *7. Politehnika*, Beograd: The Academy of Applied Technical Studies Belgrade, 15 December, 2023, pp. 526-531, ISBN 978-86-7498-110-8
4. Bošnjaković G., Vladić G., Kašiković N., Petrović S., Maričić K., Gvoka T.: APPLICATION OF INK WITH PUFF EFFECT FOR IMPROVEMENT OF ERGONOMIC PROPERTIES OF PACKAGING, *3. International Conference on Circular Packaging CPC*, Ljubljana: Pulp and Paper Institute & Faculty of Polymer Technology, Slovenia, 19-20 October, 2023, pp. 268-277, ISBN 978-961-90424-9-6
5. Dedijer S., Pál (Apro) M., Jurič (Rilovski) I., Kašiković N., Tomić I., Petrović S., Golubović G.: IMAGE ANALYSIS OF THE INFLUENCE OF PRINT RESOLUTION ON TEXT REPRODUCTION IN UV INK-JET INK PRINTING, *4. International Printing Technologies Symposium*, Istanbul: Printing Industry Education Foundation (BASEV), 5-6 October, 2023, pp. 245-254, ISBN 978-605-70806-3-9
6. Golubović G., Kerac J., Dedijer S.: Analysis of colour preferences in the context of entertainment industry web design, *3. Interanational Students Scientific Conference*, Trnava: STE GROUP sp. z o. o. Lustrzana 17, 01-342 Warszawa, Poland, 30 March, 2023, pp. 35-46, ISBN 978-83-952420-8-3
7. Golubović G., Kerac J., Milić N., Dedijer S., Đurđević S.: Heuristic evaluation of mobile application for mental health, *27. International Conference on Printing, Design and Graphic Communications - Blaž Baromić*, Zagreb: University of Zagreb Faculty of Graphic Arts Zagreb, Croatia, 28-29 September, 2022, pp. 83-95, ISBN 2991-2733
8. Gvoić V., Petrović S., Pavlović Ž., Bošnjaković G., Prica M.: Adsorption mechanism of Magenta flexographic printing dye on activated carbon, *9. International Joint Conference on Environmental and Light Industry Technologies*, Budimpešta: Obuda University, 10 November, 2023, pp. 54-62, ISBN 978-963-449-350-1
9. Jurič (Rilovski) I., Dedijer S., Pál (Apro) M., Kašiković N.: EVALUATING THE QUALITY OF PROCESSED PHOTOS: A COMPARATIVE ANALYSIS OF FACE PROCESSING TECHNIQUES, *4. International Printing Technologies Symposium*, Istanbul: Printing Industry Education Foundation (BASEV), 5-6 October, 2023, pp. 255-260, ISBN 978-605-70806-3-9
10. Jurič (Rilovski) I., Popović S., Hromiš (Krkić) N., Šuput (rođ. Pejić) D., Pantić (Ugarković) J.: THE POSSIBILITY OF PRINTING ON BIOPOLYMER PACKAGING MATERIALS, *3. International Conference on Circular Packaging CPC*, Ljubljana: Pulp and Paper Institute, Faculty of Polymer Technology, 19-20 October, 2023, pp. 278-283, ISBN 978-961-90424-9-6
11. Kašiković N., Petrović S., Vladić G., Dedijer S., Maričić K.: DIGITAL PRINTING IN THE PACKAGING INDUSTRY, *3. International Conference on Circular Packaging CPC*, Ljubljana: Pulp and Paper Institute & Faculty of Polymer Technology, Slovenia, 19-20 October, 2023, pp. 253-267, ISBN 978-961-90424-9-6
12. Kerac J., Golubović G., Milić N., Banjanin B.: Neurophysiological game experience evaluation through character identification: A review, *27. International Conference on Printing, Design and Graphic Communications - Blaž Baromić*, Zagreb: University of Zagreb Faculty of Graphic Arts Zagreb, Croatia, 28-29 September, 2022, pp. 193-201, ISBN 2991-2733
13. Kerac J., Golubović G., Milić N.: Application of jakob nielsen's heuristics: case study on cosmetic websites, *3. Interanational Students Scientific Conference*, Trnava: STE GROUP sp. z o. o. Lustrzana 17, 01-342 Warszawa, Poland, 30 March, 2023, pp. 55-67, ISBN 978-83-952420-8-3
14. Kerac J.: Printing inks: environmental impacts, innovations, and future directions, *14. International Scientific Conference ETIKUM*, Novi Sad: UNIVERSITY OF NOVI SAD, FACULTY OF TECHNICAL SCIENCES DEPARTMENT OF PRODUCTION ENGINEERING CHAIR OF METROLOGY, QUALITY, FIXTURES, TOOLS AND ECOLOGICAL ENGINEERING ASPECTS 21000 NOVI SAD, Trg Dositeja Obradovica 6, SERBIA, 7-9 December, 2023, pp. 225-228, ISBN 978-86-6022-617-6
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16. Milić N., Miketić N., Kerac J., Golubović G., Miladinović T., Stojinović S., Kovačević S.: Researching the effectiveness of web application design using eyetracking methodology, *27. International Conference on Printing, Design and Graphic Communications - Blaž Baromić*, Zagreb: University of Zagreb Faculty of Graphic Arts, Zagreb, 28-29 September, 2022, pp. 157-168, ISBN 2991-2733
17. Milošević R., Adamović (Majkić) S., Komlenić A., Banjanin B., Menzildžić D., Dimovski V.: EVALUATING THE IMPERATIVE OF SOCIAL MEDIA PRESENCE FOR B2B PRINT INDUSTRY BUSINESSES, *4. International Printing Technologies Symposium*, Istanbul: Printing Industry Education Foundation (BASEV)

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18. Pál (Apro) M., Banjanin B., Dedijer S., Jurič (Rilovski) I., Pavlović Ž., Bošnjaković G., Gvoka T.: IMAGE PROCESSING-BASED EVALUATION OF BLIND EMBOSSED QUALITY ON PULP-COLORED SUBSTRATES, 4. *International Printing Technologies Symposium*, Istanbul: Printing Industry Education Foundation (BASEV), 5-6 October, 2023, pp. 235-244, ISBN 978-605-70806-3-9
19. Tomić I., Jurič (Rilovski) I., Dedijer S., Adamović (Majkić) S.: Artificial intelligence in graphic design, 54. *Annual Scientific Conference of the International Circle of Educational Institutes of Graphic-Media Technology and Management*, Wuppertal: Helgramed, 18-20 September, 2023, pp. 85-93, ISBN 978-618-81734-4-6

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Adamović (Majkić) S., Tomić I., Banjanin B., Milošević R., Adamović D., Mihailović A., Dramićanin M.: The heavy metals in the processing screen printing inks, 29. *International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 64-65, ISBN 978-963-306-963-9
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3. Maletin M., Nikić J., Tubić (rođ. Aleksić) A., Gvoić V., Agbaba J.: Analysis of selected process parameters for the removal of nickel from water using the statistical DSD method, 9. *Simpozijum „Hemija i zaštita životne sredine - EnviroChem“*, Kladovo, 4-7 June, 2023, pp. 103-104, ISBN 978-86-7132-082-5
4. Mihailović A., Samardžić S., Lakatoš R., Adamović (Majkić) S., Ninkov J., Ralević N., Forkapić S.: Arsenic, cobalt, chromium, and nickel content in topsoil of industrial areas, 11. *International Conference on Radiation, Natural Sciences, Medicine, Engineering, Technology and Ecology (RAD)*, Herceg Novi: RAD Centre, Niš, Serbia, 19-23 June, 2023, pp. 60-60, ISBN 978-86-901150-6-8

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1. Vujičić Đ., Dedijer S., Stančić M., Ružičić B., Majnarić I.: Comparison of colourimetric results obtained by spherical and spectrophotometer with directional geometry on samples with extreme UV varnish application, *Journal of Graphic Engineering and Design*, 2023, Vol. 14, No. 4, pp. 25-31, ISSN 2217-379X

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Četković A., Adamović (Majkić) S.: Opasnosti i rizici tokom izrade proizvoda flekso tehnikom štampe, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 4, pp. 471-474, ISSN 0350-428X
2. Dobrić M., Đurđević S., Golubović G.: Upotreba veštačke inteligencije prilikom izrade dizajna grafičkog interfejsa, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 9, pp. 1292-1295, ISSN 0350-428X, UDK: 655
3. Ikić M., Kašiković N., Juretić I.: POREĐENJE KRATKOROČNIH PONOVLJIVOSTI ŠTAMPARSKIH SISTEMA HP LATEX 570, LIYU PLATINUM Q3 I HP LATEX 3200, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 9, ISSN 0350-428X
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6. Milikić S., Jurič (Rilovski) I.: UPOTREBA FOTO MANIPULACIJE RADI PRIKAZA I PRENOSA IZREKA I CITATA, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 9, pp. 1276-1279, ISSN 0350-428X, UDK: 004.738.1:766
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8. Sarić D., Jurič (Rilovski) I.: UTICAJ ŠUMA I ZAMUČENJA NA DETEKCIJU LICA NA FOTOGRAFIJI, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 4, pp. 475-478, ISSN 0350-428X
9. Vezmar Z., Kašiković N., Milošević R.: ISPITIVANJE POSTOJANOSTI TEKSTILNIH OTISAKA DOBIJENIH DIGITALNOM ŠTAMPOM, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 6, pp. 768-771, ISSN 0350-428X

#### **Spisak rezultata M54 - Uređivanje vodećeg naučnog časopisa nacionalnog značaja (na godišnjem nivou)**

1. Kašiković N.: Uređivanje časopisa Journal of graphic engineering and design, Journal of Graphic Engineering and Design, 2023, ISSN 2217-379X

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Adamović (Majkić) S., Milošević R., Banjanin B., Tomić I., Adamović D., Mihailović A., Dramićanin M.: Gasovite zagađujuće materije u radnom okruženju tampon mašine, *14. International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of technical sciences, Department of production engineering, 7-9 Decembar, 2023, pp. 185-188, ISBN 978-86-6022-617-6
2. Gvoić V., Agarski B., Kerkez Đ., Vukelić Đ., Prica M.: Ocenjivanje životnog ciklusa i ispitivanje uticaja sinteze heterogenog fenton katalizatora na životnu sredinu, *14. International Scientific Conference ETIKUM*, Novi Sad: Fakultet tehničkih nauka, 7-9 Decembar, 2023, pp. 209-212, ISBN 978-86-6022-618-3
3. Gvoka T., Vladić G., Kašiković N., Maričić K., Bošnjaković G., Adamović (Majkić) S.: THE UTILIZATION OF WASTE TEXTILE MATERIALS IN THE PACKAGING PRODUCTION, *6. VI International Scientific Conference "Contemporary Trends and Innovations in the Textile Industry"*, Beograd: Union of Engineers and Textile Technicians of Serbia, Belgrade, Serbia, 14-15 Septembar, 2023, pp. 186-193, ISBN 978-86-900426-6-1
4. Kerac J., Dimitrijević N., Ivanković M., Milić N.: EEG for Assessing Game Experience via Character Identification, *1. Konferencija Merno-informacione tehnologije 2023 (MIT 2023)*, Novi Sad: Fakultet Tehničkih nauka, Novi Sad, 26-29 Decembar, 2023, ISBN 978-86-6022-649-7

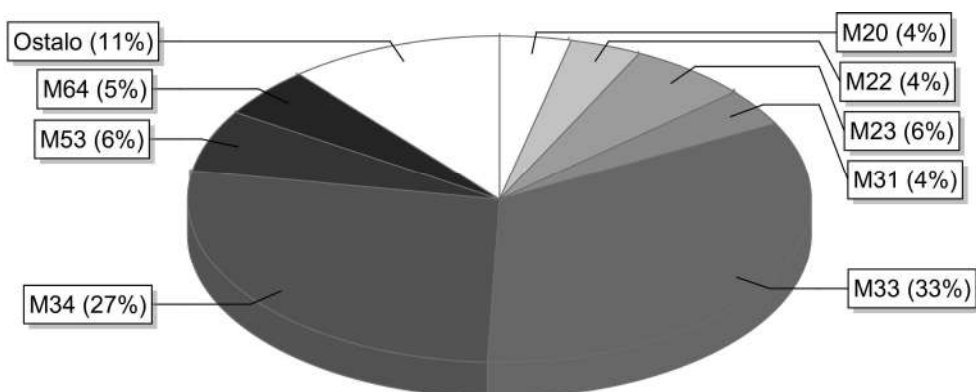


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za inženjerstvo zaštite životne sredine

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	5
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	27
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	22
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	2
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	4
Odbranjena doktorska disertacija	M71	1

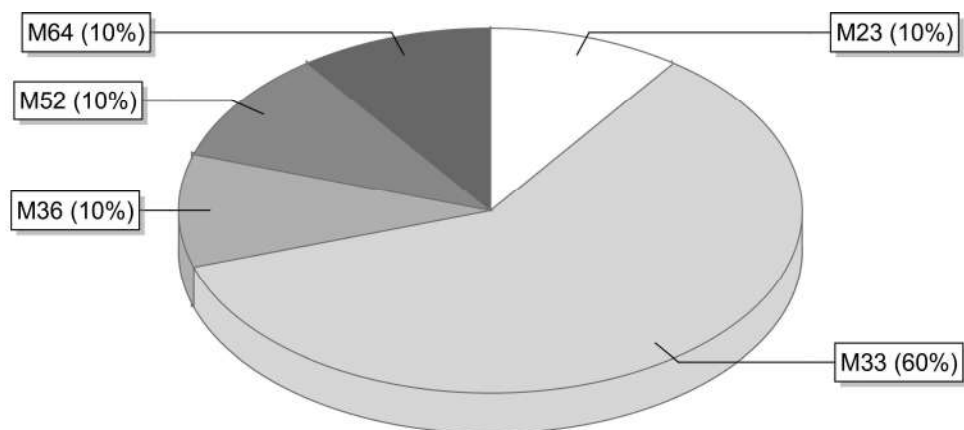


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za inženjerstvo biosistema

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	6
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Nesterović A., Đatkov Đ., Višković M., Bojić S., Martinov M.: Profitability of baled straw as a fuel in different combustion technologies in Serbia, *AMA - Agricultural Mechanization in Asia, Africa and Latin America*, 2023, Vol. 54, No. 2, pp. 68-74, ISSN 0084-5841

### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Đatkov Đ., Nesterović A., Višković M., Martinov M.: Small biogas plants in Serbia- prerequisites for profitability, *49. Actual Tasks on Agricultural Engineering*, Opatija: University of Zagreb, Faculty of Agriculture Department of Agricultural Engineering, 28-2 February, 2023, pp. 437-446, ISBN 1848-4425, UDK: 631
2. Mirosavljević Z., Zoraja B., Ilić Mićunović M.: STATUS OF PACKAGING GLASS WASTE MANAGEMENT IN SERBIA, *20. 20th International Conference "Man and Working Environment" Safety Engineering & Management - Science, Industry, Education (SEM-SIE 2023)*, Niš, 7-8 December, 2023, pp. 81-83, ISBN 978-86-6093-115-5
3. Nesterović A., Đatkov Đ., Višković M., Martinov M.: Sustainable crop residues potential for the production of lignocellulosic bioethanol in Serbia, *49. Actual Tasks on Agricultural Engineering*, Opatija: University of Zagreb, Faculty of Agriculture Department of Agricultural Engineering, 28-2 February, 2023, pp. 353-362, ISBN 1848-4425, UDK: 631
4. Višković M., Đatkov Đ., Nesterović A., Martinov M.: Possibilities for financing of new biogas plants in Serbia, *49. Actual Tasks on Agricultural Engineering*, Opatija: University of Zagreb, Faculty of Agriculture Department of Agricultural Engineering, 28-2 February, 2023, pp. 447-455, ISBN 1848-4425, UDK: 631
5. Višković M., Đatkov Đ., Zoraja B., Nesterović A.: Workplace injuries at biogas plants, *1. FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences, 12-15 September, 2023, pp. 246-251, ISBN 978-86-6022-621-3
6. Vranješ B., Zoraja B.: SYSTEM OF OCCUPATIONAL SAFETY IN THE REPUBLIC OF SERBIA AND THE REPUBLIC OF SRPSKA (B&H), *1. FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Occupational Safety, 12-15 September, 2023, pp. 252-259, ISBN 978-86-6022-621-3

### **Spisak rezultata M36 - Uređivanje zbornika saopštenja međunarodnog naučnog skupa**

1. Petrović (Đogo) M., Mihajlović I., Živančev (Šenk) N., Zoraja B., Adamov T.: Proceedings of the 1st INTERNATIONAL EUROSA CONFERENCE, *1. FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences, University of Novi Sad, 12-15 September, 2023, ISBN 978-86-6022-621-3

### **Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Mirosavljević Z., Štrbac D., Ubavin D., Malešev M., Stanisavljević N., Štrbac G.: Proposition of waste glass containers usage as secondary raw material for clay blocks production, *Reciklaža i održivi razvoj*, 2023, Vol. 16, No. 7, pp. 81-89, ISSN 1820-7480

### **Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

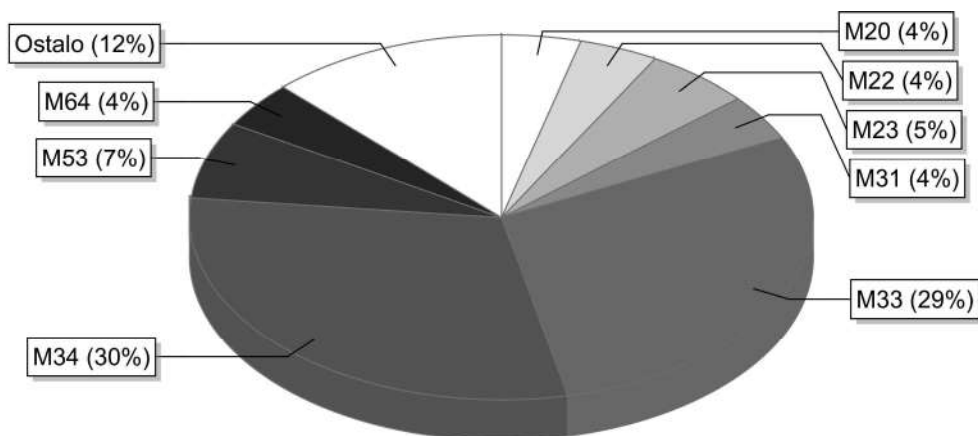
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za inženjerstvo zaštite životne sredine

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	4
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	21
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	22
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	2
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	3
Odbranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M13 - Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja**

1. Turk Sekulić M., Gayh U., Zierock B.: Democratia-Aqua-Technica Initiative: Cross-Media Approach for Developing Sustainable Projects, London, Springer Nature, 2023, str. 613-631, ISBN 2731-5576

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

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2. Vlaović Ž., Stepanov B., Anđelković A., Rajs V., Čepić Z., Tomić M.: Mapping energy sustainability using the Kohonen self-organizing maps - Case study, Journal of Cleaner Production, 2023, ISSN 0959-6526
3. Vujić rođ. Lončarski M., Vasiljević S., Rocha-Santos T., Agbaba J., Čepić Z., Radonić (Jakšić) J., Tubić (rođ. Aleksić) A.: Improving of an easy, effective and low-cost method for isolation of microplastic fibers collected in drying machines filters, Science of the Total Environment, 2023, Vol. 892, No. 164549, ISSN 0048-9697

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Čojbašić (Radović) S., Pap S., Niemi L., Prodanović J., Turk Sekulić M.: A review on sustainable technologies for pharmaceutical elimination in wastewaters — A ubiquitous problem of modern society, Journal of Molecular Liquids, 2023, Vol. 383, ISSN 0167-7322
2. Pap S., Paunovic O., Prosen H., Trebše P., Niemi L., Taggart M., Turk Sekulić M.: Removal of benzotriazole derivatives by biochar: Potential environmental applications, Environmental Pollution, 2023, ISSN 0269-7491

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Čojbašić (Radović) S., Dmitrašinović S., Kostić M., Turk Sekulić M., Radonić (Jakšić) J., Dodig A., Stojković M.: Application of machine learning in river water quality management: a review, Water Science and Technology, 2023, ISSN 0273-1223
2. Čojbašić (Radović) S., Turk Sekulić M., Agarski B., Pap S., Vukelić Đ., Budak I., Prodanović J.: Life cycle assessment of new bio-based coagulant production for sustainable wastewater treatment, International Journal of Environmental Science and Technology, 2023, Vol. 20, pp. 7433-7462, ISSN 1735-1472
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2. Samardžić S., Mihailović A., Adamović (Majkić) S., Adamović D., Banjanin B., Rajs V., Lakatoš R.: Noise and lighting as physical stressors in a printing laboratory - A case study, Environmental Engineering and Management Journal, 2023, Vol. 22, No. 3, pp. 595-606, ISSN 1582-9596
3. Štrbac G., Jarić S., Lukić-Petrović S., Vigi R., Čelić N., Štrbac D.: Isoconversional Analysis of Thermally Stimulated Effects in CuX(As<sub>2</sub>Se<sub>3</sub>)<sub>100-X</sub> Glasses, Acta Physica Polonica. A, 2023, Vol. 143, No. 5, ISSN 0587-4246
4. Šunjević M., Reba D., Rajs V., Vujić (Francuski) B., Ninkov M., Vojinović-Miloradov M.: Assessment of detected in situ and modeled PM<sub>10/2.5</sub> concentration levels during the urban transformation process in Novi Sad, Serbia, Thermal Science, 2023, Vol. 27, No. 3B, pp. 2275-2286, ISSN 0354-9836

### **Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Adamović D.: BTEX EMISSIONS FROM PASSENGER CARS IN URBAN DRIVING CONDITIONS, 20. 20th International Conference "Man and Working Environment" Safety Engineering & Management - Science, Industry, Education (SEM-SIE 2023), Niš: University of Niš, Faculty of Occupational Safety, 7-8 December, 2023, pp. 25-28, ISBN 978-86-6093-115-5
2. Šunjević M., Vojinović-Miloradov M., Sremački M., Nedučin D.: Architectural elements as a part of urban transformations and migrations after COVID epidemic, 3. International Conference on Sustainable Environment and Technologies "Creating sustainable commUNITY", Beograd, 22-23 September, 2023, pp. 33-40, ISBN 978-86-89529-40-1

3. Vojinović-Miloradov M., Šunjević M.: Sorption and transport phenomena of hazardous chemical entities on suspended particles, 3. *International Conference on Sustainable Environment and Technologies "Creating sustainable commUNITY"*, Beograd, 22-23 September, 2023, pp. 33-40, ISBN 978-86-89529-40-1

**Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Adamović D., Crnjak C., Adamović (Majkić) S.: Particulate matter in the indoor air of a bakery, 1. *FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 12-15 September, 2023, pp. 1-7, ISBN 978-86-6022-621-3
2. Babić A., Čepić Z., Radonić (Jakšić) J., Stepanov B., Andersen Z.: A simulation model of air pollutants dispersion in the Belgrade city area, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, 5-6 October, 2023, pp. 305-310, ISBN 978-86-7672-368-3
3. Batinić B., Berežni I., Tot B., Marinković T., Vujić G.: ESTIMATION OF GHG EMISSIONS FOR DIFFERENT FOOD WASTE CATEGORIES FROM RESTAURANTS – CASE STUDY OF NOVI SAD (SERBIA), 19. *International symposium on waste management and sustainable landfilling*, Santa Margherita di Pula: IWWG - International Waste Working Group, 9-13 October, 2023
4. Bošković G., Todorović M., Marković G., Čepić Z., Mladenović P.: Multi-aisle automated rack warehouse simulation for average travel time, 11. *Heavy Machinery-HM*, Vrnjačka Banja: Faculty of Mechanical and Civil Engineering in Kraljevo, 21-24 June, 2023, pp. 53-58, ISBN 978-86-82434-01-6
5. Brborić M., Dmitrašinić S., Čojbašić (Radović) S., Turk Sekulić M., Radonić (Jakšić) J.: Occurrence of polycyclic musks in pore water of the sediment-freshwater system: Passive sampler application, 29. *International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 104-108, ISBN 978-963-306-963-9
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8. Ilić D., Brkić B., Turk Sekulić M.: Biomonitoring: Beehive air volatiles profile as an indicator of environmental contamination, 1. *European GREEN Conference*, Vodice, 23-26 May, 2023
9. Jezdimirović I., Čepić Z., Stanisavljević N., Mihajlović V., Wang X.: Potential impact of home composting on organic waste diversion from landfills in Serbia, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, 5-6 October, 2023, pp. 363-370, ISBN 978-86-7672-368-3
10. Jovanović Andersen Z., Brborić M., Radonić (Jakšić) J., Čojbašić (Radović) S., Dmitrašinić S., Turk Sekulić M.: Occurrence, sources and determination of benzo(a)pyrene outdoor air concentrations in Novi Sad: A multivariate approach, 1. *FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 12-15 September, 2023, pp. 86-92, ISBN 978-86-6022-621-3
11. Keser T., Obrovski B., Mihajlović I., Vojinović-Miloradov M., Sremački M., Brkić M.: SURFACE WATER-QUALITY MONITORING OF TWO WETLAND ECO-SYSTEMS IN CROSS BORDER PROTECTED AREAS, 1. *FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences, University of Novi Sad, 12-15 September, 2023, pp. 93-97, ISBN 978-86-6022-621-3
12. Marinković T., Berežni I., Tot B., Stanisavljević N., Tošić N., Batinić B.: Optimization of WEEE collection system: Assessment of key influencing factors for different scenarios in Novi Sad, Serbia, 10. *International Conference on Sustainable Solid Waste Management*, Chania, 21-24 June, 2023
13. Mihailović A., Lakatoš R., Samardžić S., Adamović (Majkić) S., Ninkov J., Adamović D., Milić S.: Content of potentially toxic elements in soil of urban parks in Novi Sad, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Đure Đakovića bb, 23101 Zrenjanin, Republic of Serbia, 5-6 October, 2023, pp. 344-349, ISBN 978-86-7672-368-3
14. Mihajlović I., Hgeig A., Živančev (Šenk) N., Petrović (Đogo) M., Novaković M.: Comparison of different sorbents in the herbicide removal from water, 30. *International Conference Ecological Truth and*

*Environmental Research*, Stara planina: University of Belgrade, Technical Faculty in Bor, 20-23 June, 2023, pp. 251-255, ISBN 978-86-6305-137-9

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16. Senjak Pejić M., Peško I., Petrović (Đogo) M., Mučenski V., Terzić M., Stanojević D.: REDUCTION OF CARBON EMISSIONS IN THE CONSTRUCTION INDUSTRY USING LEAN PRACTICES, *12. Creative Construction Conference*, Keszthely: Diamond Congress Ltd., 20-23 June, 2023, ISBN ISBN 978-615-5270-79
17. Senjak Pejić M., Terzić M., Stanojević D., Peško I., Petrović (Đogo) M., Kapetina M., Mučenski V.: ESTIMATING CONCRETE QUANTITIES USING AI-BASED MODELS FOR RECYCLING AND REDUCING CO2 EMISSIONS, *16. iNDiS*, Novi Sad, 16-17 November, 2023, pp. 429-550, ISBN 987-86-6022-615-2
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19. Vukmirović A., Jovišić N., Ilić S., Vukmirović S., Mihajlović I.: ASSESSMENT OF WATER QUALITY PARAMETERS CORRELATION IN WWTP FOR PREDICTION OF NUTRIENT REMOVAL, *1. FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences, University of Novi Sad, 12-15 September, 2023, pp. 267-272, ISBN 978-86-6022-621-3
20. Vukmirović A., Obrovski B., Vukmirović S., Mihajlović I.: APPLICATION OF STATISTICAL METHODS FOR THE ANALYSIS OF WASTEWATER TREATMENT PLANT EFFICIENCY, *30. International Conference Ecological Truth and Environmental Research*, Stara planina: University of Belgrade, Technical Faculty in Bor, 20-23 June, 2023, pp. 247-251, ISBN 978-86-6305-137-9
21. Wang X., Tošić N., Muhadinović M., Marinković T., Kovačević S., Stanisavljević N.: The distribution of Cd and Pb between the intermediate and final sinks in composting and anaerobic digestion processes, *13. International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin, 5-6 October, 2023, pp. 391-397, ISBN 978-86-7672-368-3

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Adamov T., Novaković M., Petrović (Đogo) M.: A comprehensive exploration of cutting-edge approaches for evaluating inorganic pollution risks in landfill leachate, *3. DIFENEW International Student Conference*, Novi Sad: Faculty of Technical Sciences Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 5 December, 2023, pp. 26-26, ISBN 978-86-6022-632-9
2. Adamov T., Tarakčija M., Novaković M.: Current state of psychosocial risk management in the workplace environment: opportunities and challenges, *3. DIFENEW International Student Conference*, Novi Sad: Faculty of Technical Sciences Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 5 December, 2023, pp. 5-5, ISBN 978-86-6022-632-9
3. Adamović (Majkić) S., Tomić I., Banjanin B., Milošević R., Adamović D., Mihailović A., Dramićanin M.: The heavy metals in the processing screen printing inks, *29. International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 64-65, ISBN 978-963-306-963-9
4. Agarski B., Maoduš N., Ubavin D., Jovanović S., Milošević A., Ilić Mićunović M., Vukelić Đ.: Life Cycle Assessment of products based on environmental product declarations data, *29. International Symposium on Analytical and Environmental Problems*, Segedin: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 10-10, ISBN 978-963-306-963-9
5. Aleksić J., Mihajlović I.: OCCUPATIONAL EXPOSURES TO AIRBORNE PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS), *3. DIFENEW International Student Conference*, Novi Sad, 5 December, 2023, pp. 6-6, ISBN 978-86-6022-632-9
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7. Berežni I., Nakomčić-Smaragdakis B., Brborić M., Batinić B.: Critical Review of electrical and electronic waste legislation in Serbia, *3. DIFENEW International Student Conference*, Novi Sad, 5 December, 2023, ISBN 978-86-6022-632-9

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9. Čojbašić (Radović) S., Pap S., Ilić D., Turk Sekulić M.: From waste to riches: Microscale phenomena enabling phosphorus recovery from wastewaters, 1. *European GREEN Conference*, Vodice: International Association of Environmental Scientists and Professionals (IAESP), Osijek, Croatia, 23-26 May, 2023, pp. 360-360, ISBN 2991-5171
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14. Kostić M., Čojbašić (Radović) S., Dmitrašinić S., Turk Sekulić M., Stojković M., Radonić (Jakšić) J.: AI-powered methods for the prediction of future floods and drought, 3. *The 3rd International „World Water Day“ Online Conference*, Heidelberg, 22 March, 2023, pp. 27-27, ISBN 978-3-9822521-4-8
15. Novaković M., Mihajlović I.: Breakthrough in the utilisation of photocatalysis in large-scale wastewater treatment plants - a step further towards sustainability of process, 3. *DIFENEW International Student Conference*, Novi Sad: Faculty of Technical Sciences Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 5 December, 2023, pp. 55-55, ISBN 978-86-6022-632-9
16. Prokić D., Pucarević M., Ćurčić Lj., Stojić N., Turk Sekulić M., Šperanda M.: Life cycle assessment (LCA) of microplastics in the environment, 1. *European GREEN Conference*, Vodice: International Association of Environmental Scientists and Professionals (IAESP), Osijek, Croatia, 23-26 May, 2023, pp. 42-42, ISBN 2991-5171
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18. Stojkov M., Šljivac D., Nakomčić-Smaragdakis B.: A concept of linear DC generator moved by WEC, 4. *The General Assembly 2023 of the WECANet COST Action CA17105 Conference Ghent: A pan-European Network for Marine Renewable Energy with a Focus on Wave Energy*, Ghent: COST, 6-7 March, 2023, pp. 88-88, ISBN 9789080928138
19. Šljivac D., Nakomčić-Smaragdakis B., Temiz I., Žnidarec M.: Cost-benefit analysis of Grid Integration of Wave Power Farms on the Mediterranean (Adriatic) Islands' RES power microgrids, 4. *The General Assembly 2023 of the WECANet COST Action CA17105 Conference Ghent: A pan-European Network for Marine Renewable Energy with a Focus on Wave Energy*, Ghent: COST, 6-7 March, 2023, pp. 81-81, ISBN 9789080928138
20. Tarakčija M., Adamov T., Novaković M.: Correlation between work-related psychosocial risk factors and musculoskeletal disorders in selected workplaces: a short review, 3. *DIFENEW International Student Conference*, Novi Sad: Faculty of Technical Sciences Trg Dositeja Obradovića 6, Novi Sad, Republic of Serbia, 5 December, 2023, pp. 14-14, ISBN 978-86-6022-632-9
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#### **Spisak rezultata M36 - Uređivanje zbornika saopštenja međunarodnog naučnog skupa**

1. Petrović (Đogo) M., Mihajlović I., Živančev (Šenk) N., Sremački M., Adamov T.: Abstract Book 3rd DIFENEW INTERNATIONAL STUDENT CONFERENCE DISC2023, 3. *DIFENEW International Student Conference*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad, 5 December, 2023, ISBN 978-86-6022-632-9
2. Petrović (Đogo) M., Mihajlović I., Živančev (Šenk) N., Zoraja B., Adamov T.: Proceedings of the 1st INTERNATIONAL EUROSA CONFERENCE, 1. *FIRST INTERNATIONAL EUROSA CONFERENCE - EUROSA2023*, Brzeće: Faculty of Technical Sciences, University of Novi Sad, 12-15 September, 2023, ISBN 978-86-6022-621-3

#### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Cvetković D.: Novi pristup dinamičkoj analizi kompeticionog Lotka-Voltera modela: novi indikatori stabilnosti, *Ecologica*, 2023, Vol. 30, No. 109, pp. 59-66, ISSN 0354-3285

#### **Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Mirosavljević Z., Štrbac D., Ubavin D., Malešev M., Stanisavljević N., Štrbac G.: Proposition of waste glass containers usage as secondary raw material for clay blocks production, *Reciklaža i održivi razvoj*, 2023, Vol. 16, No. 7, pp. 81-89, ISSN 1820-7480

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Bjelica M., Adamov T., Novaković M.: Upravljanje rizicima i prilikama u akreditovanoj laboratoriji za monitoring životne i radne sredine, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 2, pp. 270-273, ISSN 0350-428X
2. Blanuša D., Čojbašić (Radović) S., Turk Sekulić M.: Significance of biochar in sustainable development: water treatment, soil remediation, energy storage and carbon sequestration, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 5, No. 5/2023, pp. 703-706, ISSN 0350-428X
3. Bogdanić M., Mihajlović I., Novaković M.: Fotokatalitički tretman komunalne otpadne vode u cilju uklanjanja nesteroidnih antiinflamatornih lekova (NSAIL), *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 35, No. 2, pp. 266-269, ISSN 0350-428X
4. Jovanović S., Agarski B., Ubavin D.: Ocenjivanje potencijala globalnog zagrevanja pri upravljanju komunalnim otpadom za opštinu Novi Sad, *Zbornik radova Fakulteta tehničkih nauka*, 2023, Vol. 38, No. 11, pp. 1442-1445, ISSN 0350-428X, UDK: 502/504
5. Popara D., Čojbašić (Radović) S., Turk Sekulić M.: REMEDIATION OF WASTEWATER LOADED WITH PHOSPHORUS USING FUNCTIONALIZED ACTIVE CARBON, *Zbornik radova Fakulteta tehničkih nauka*, 2023, No. 10/2023, pp. 1430-1433, ISSN 0350-428X

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Adamović (Majkić) S., Milošević R., Banjanin B., Tomić I., Adamović D., Mihailović A., Dramićanin M.: Gasovite zagađujuće materije u radnom okruženju tampon mašine, 14. *International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of technical sciences, Department of production engineering, 7-9 Decembar, 2023, pp. 185-188, ISBN 978-86-6022-617-6

#### **Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

1. Agarski B., Maoduš N., Ubavin D., Jovanović S., Milošević A., Ilić Mićunović M., Vukelić Đ.: Life Cycle Assessment of Products Based on Environmental Product Declarations Data, 29. *International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 Novembar, 2023, pp. 10-10, ISBN 978-963-306-963-9
2. Čojbašić (Radović) S., Pap S., Prodanović J., Radonić (Jakšić) J., Dmitrašinić S., Turk Sekulić M.: Unlocking the Remediation Potential of WasteDerived Biochar: Arsenic Shuttle between Groundwater and Environmentally Friendly Medium, 9. *Simpozijum „Hemija i zaštita životne sredine - EnviroChem“*, Kladovo, 4-7 Jun, 2023, pp. 123-123, ISBN 978-86-7132-082-5
3. Dmitrašinić S., Jovašević Stojanović M., Davidović M., Turk Sekulić M., Čojbašić (Radović) S., Radonić (Jakšić) J.: Non-carcinogenic health risk assessment via acute and chronic exposure to particulate pollution in Novi Sad, Serbia, 9. *Simpozijum „Hemija i zaštita životne sredine - EnviroChem“*, Kladovo, 4-7 Jun, 2023, pp. 151-152, ISBN 978-86-7132-082-5

#### **Spisak rezultata M71 - Odbranjena doktorska disertacija**

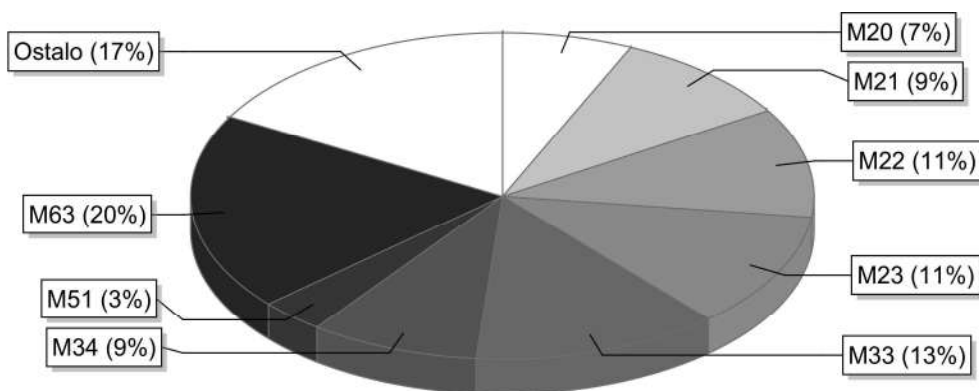
1. Šunjević M.: Urbanističko-arhitektonske metode i modeli zaštite gradova od emisije suspendovanih čestica, Novi Sad, 2023

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za opšte discipline u tehnicima

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje međunarodnog naučnog časopisa; Uređivanje tematskih monografija	M29a	1
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	2
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	10
Rad u vrhunskom međunarodnom časopisu	M21	14
Rad u istaknutom međunarodnom časopisu	M22	16
Rad u međunarodnom časopisu	M23	17
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	4
Naučna kritika i polemika u međunarodnom časopisu	M26	1
Uređivanje međunarodnog naučnog časopisa	M28	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	19
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	13
Istaknuta monografija nacionalnog značaja	M41	1
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	2
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	1
Rad u vodećem časopisu nacionalnog značaja	M51	5
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	3
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	29
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	3
Odbranjena doktorska disertacija	M71	2

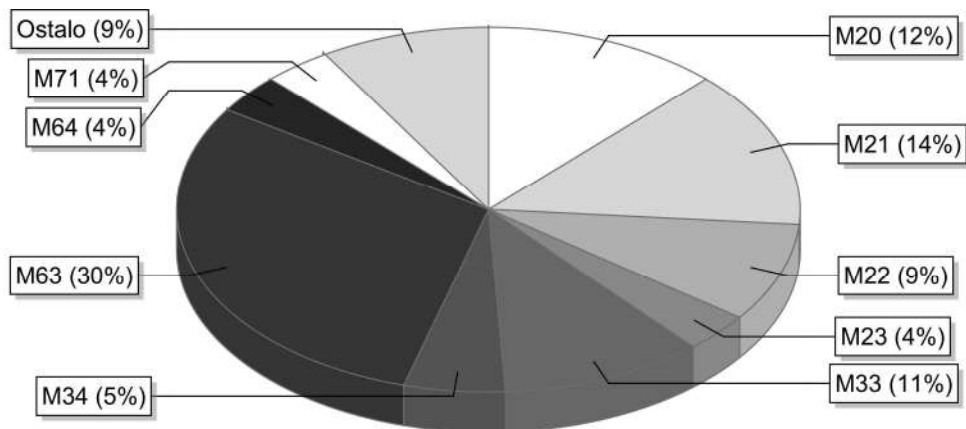


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za matematiku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	7
Rad u vrhunskom međunarodnom časopisu	M21	8
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	2
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	6
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Istaknuta monografija nacionalnog značaja	M41	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	17
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	2
Odbranjena doktorska disertacija	M71	2



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

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2. Doroslovački K., Cvetković D.: On Matrices with Only One Non-SDD Row, *Mathematics*, 2023, Vol. 11, No. (10) 2382, pp. 1-17, ISSN 2227-7390
3. Došenović (Žikić) T., Rakić D., Radenović S., Carić B.: Ćirić type nonunique fixed point theorems in the frame of fuzzy metric spaces, *Aims Mathematics*, 2023, Vol. 8, No. 1, pp. 2154-2167, ISSN 2473-6988
4. Đokić J., Doroslovački K., Bodroža Pantić O.: A Spanning Union of Cycles in Thin Cylinder, Torus and Klein Bottle Grid Graphs, *Mathematics*, 2023, Vol. 11, No. 4 (846), pp. 1-20, ISSN 2227-7390
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6. Miler-Jerković V., Mihailović B., Malešević B.: The general algebraic solution of fuzzy linear systems based on a block representation of  $\{1\}$ -inverses, *Iranian Journal of Fuzzy Systems*, 2023, Vol. 20, No. 3, pp. 115-123, ISSN 1735-0654
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### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Cvejić (Gvozdenović) S., Lazić O., Jocković M., Kupusinac A., Doroslovački K., Gvozdenac S., Jocić S., Miladinović (Vasić) D.: Oil yield prediction for sunflower hybrid selection using different machine learning algorithms, *Scientific Reports*, 2023, Vol. 13, No. 1, ISSN 2045-2322
2. Čomić L., Magillo P.: Surface-Based Computation of the Euler Characteristic in the BCC Grid, *Journal of Mathematical Imaging and Vision*, 2023, Vol. 65, No. 6, pp. 915-930, ISSN 0924-9907
3. Čomić L., Ralević N.: Vertex-Degree-Based Topological Indices of Arbitrary Sets of Hexagons in the Regular Hexagonal Grid, *Applicable Analysis and Discrete Mathematics*, Faculty of Electrical Engineering, Belgrade, 2023
4. Đokić J., Doroslovački K., Bodroža Pantić O.: The Structure of the 2-factor Transfer Digraph Common for Rectangular, Thick Cylinder and Moebius Strip Grid Graphs, *AADM, Applicable analysis and discrete mathematics*, 2023
5. Jakovetić D., Vuković M., Bajović D., Kumar Sahu A., Kar S.: Distributed Recursive Estimation under Heavy-Tail Communication Noise, *SIAM Journal on Control and Optimization*, Society for Industrial and Applied Mathematics, 2023, Vol. 63, No. 3, pp. 1582-1609, ISSN 0363-0129
6. Kalušev V., Popović B., Janev M., Brkljač B., Ralević N.: Measure of Similarity between GMMs Based on Autoencoder-Generated Gaussian Component Representations, *Axioms*, 2023, Vol. 12, No. 6: 535, pp. 1-21, ISSN 2075-1680
7. Nataša M., Ralević N.: Fuzzy methaheuristic model for copy-move forgery detection on images, *Multimedia Tools and Applications*, 2023, ISSN 1380-7501
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### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Arsić D., Nedović M.: On  $\Pi$ -Nekrasov matrices / (prihvaćen za štampu), *FILOMAT*, 2023, ISSN 0354-5180
2. Čomić L., Magillo P.: Crossing-free paths in the square grid, *Computers and Graphics*, 2023, Vol. 114, pp. 296-305, ISSN 0097-8493
3. Milićević S., Kostić V.: Algorithms for computing the optimal Geršgorin-type localizations, *FILOMAT*, 2023, Vol. 37, No. 30, pp. 10395-10413, ISSN 0354-5180
4. Prokić A., Đapić P., Marković P., McKenzie R.: SMB Algebras I: On the variety of SMB algebras, *FILOMAT*, 2023, Vol. 37, No. 13, pp. 4083-4101, ISSN 0354-5180
5. Stojaković M., Stratijev J., Stratijev J.: On strong avoiding games, *Discrete Mathematics*, 2023, Vol. 346, ISSN 0012-365X

#### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Simeunović M., Kojić R., Ralević N., Pitka P., Kovačević (Savković) T.: Influence of Traffic Flow and Meteorological Conditions on Air Pollution – A Case Study, *Promet - Traffic & Transportation*, 2023, Vol. 35, No. 6, pp. 932-946, ISSN 1848-4069
2. Stojaković V., Bajić Papuga B., Tepavčević B., Jovanović M.: Symmetry Group Effect on Perforated Image Perception, *Nexus Network Journal*, 2023, ISSN 1590-5896

#### **Spisak rezultata M24 - Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom**

1. Đokić J., Bodroža Pantić O., Doroslovački K.: A spanning union of cycles in rectangular grid graphs, thick grid cylinders and Moebius strips, *Transactions on Combinatorics*, 2023, ISSN 2251-8657

#### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Ilić J., Grbić T., Hadžistević M., Milutinović M., Kraišnik M., Movrin D.: Influence of process parameters in the process of deep drawing with plastic tool, *16. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI*, Banja Luka: FACULTY OF MECHANICAL ENGINEERING UNIVERSITY OF BANJA LUKA, 1-2 June, 2023, pp. 84-89, ISBN 978-99976-11-04-8
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3. Popović M., Popović M., Kaštelan I., Đukić M., Gilezan S.: A Simple Python Testbed for Federated Learning Algorithms, *8. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC*, Novi Sad, 29-31 May, 2023, pp. 1-6
4. Prokić I., Gilezan S., Prokić S., Popović M., Popović M., Kaštelan I.: Correct orchestration of Federated Learning generic algorithms: formalisation and verification in CSP, *8. Conference on the Engineering of Computer Based Systems (ECBS)*, Vesteros: Springer, 16-18 October, 2023, pp. 274-288, ISBN 978-3-031-49251-8
5. Šaš M., Vukajlović N., Medić S., Pejić D.: Korišćenje integrišućeg analogno-digitalnog konvertora za karakterizaciju superkondenzatora u uslovima visokog prisustva šuma, *10. International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Istočno Sarajevo, 5-8 June, 2023, pp. 1-4, ISBN 978-86-7466-969-3
6. Vekić A., Borocki J., Đaković V., Ralević N., Mladenović I., Sokolov Mladenović S.: RESILIENCE OF STARTUP COMPANIES IN CRISIS CONDITIONS, *19. International Scientific Conference on INDUSTRIAL SYSTEMS - IS*, Novi Sad: Faculty of Technical Sciences, 5-6 October, 2023, ISBN 978-86-6022-623-7

#### **Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Kalina M., Mihailović B., Štrboja M.: On induced bipolar OWA operators, *26. International Conference on MATHEMATICAL MODELLING AND ANALYSIS*, Jamena, 30-2 April, 2023, pp. 24-24
2. Mihailović A., Samardžić S., Lakatoš R., Adamović (Majkić) S., Ninkov J., Ralević N., Forkapić S.: Arsenic, cobalt, chromium, and nickel content in topsoil of industrial areas, *11. International Conference on Radiation, Natural Sciences, Medicine, Engineering, Technology and Ecology (RAD)*, Herceg Novi: RAD Centre, Niš, Serbia, 19-23 June, 2023, pp. 60-60, ISBN 978-86-901150-6-8
3. Ralević N., Došenović (Žikić) T., Paunović M., Čebić D., Dragić Đ.: FIXED-POINT THEORY IN DIGITAL METRIC SPACES, *2. COAST International Conference on Advances in Science and Technology*, Herceg Novi, 30-3 May, 2023

#### **Spisak rezultata M41 - Istaknuta monografija nacionalnog značaja**

1. Kostić M.: *Elementarne Nejednakosti za Srednjoskolce*, PMF Novi Sad, 2023

#### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Ilić J., Grbić T., Hadžistević M., Milutinović M., Kraišnik M., Movrin D.: Deep drawing with unconventional tooling: impact of process parameters on a part accuracy, *Advanced Technologies and Materials*, 2023, Vol. 48, No. 1, pp. 27-31, ISSN 2620-0325, UDK: 621.7

#### **Spisak rezultata M52 - Rad u časopisu nacionalnog značaja**

1. Vapa Tankosić J., Carić B.: ORGANIC PRODUCTS MARKET AND CONSUMERS' ATTITUDES TOWARDS ORGANIC PRODUCTS, *International Journal of Economic Practice and Policy*, 2023, Vol. 20, No. 1, pp. 58-67, ISSN 2812-7315

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Ivetić J., Galogaža D.: Algoritmi klaster analize sa primenom, *Zbornik radova Fakulteta tehničkih nauka*,

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Brdar M., Kumozec D., Radojev G., Teofanov Lj.: SPLINE DIFFERENCE SCHEME ON A GRADED MESH FOR A CONVECTION-DIFFUSION PROBLEM, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad, 27 Maj, 2023
2. Dedeić J., Prokić I.: AN INVITATION TO GRAPH TRANSFORMATIONS (Part 1), 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad: Faculty of Technical Sciences, 27 Maj, 2023, ISBN 978-86-6022-578-0
3. Došenović (Žikić) T., Carić B.: Veza trougaone norme i kontraktivnog uslova u teoremama o nepokretnoj tački, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad, 27 Maj, 2023, pp. 78-83
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5. Ilić V., Samardžija V.: From sea to mathematics, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad: Faculty of Technical Sciences, 27 Maj, 2023, pp. 101-106, ISBN 978-86-6022-578-0
6. Ivetić J., Doroslovački K.: Analiza uticaja online nastave na ishode učenja u visokom obrazovanju – studija slučaja predmeta Algebr, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023
7. Ivetić J., Galogaža D.: Primena Gep - statistike na određivanje optimalnog broja klastera kod nehijerarhijskih metoda, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad, 27 Maj, 2023
8. Mirković S., Grbić T., Gazivoda N., Novaković Đ., Gotovac Z., Pejić D.: Određivanje merne nesigurnosti transfera Hamonovih otpornika, 67. *ETAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku*, Istočno Sarajevo, 5-8 Jun, 2023, pp. 1-4, ISBN 978-86-7466-969-3
9. Nedović Lj., Mihailović B., Dragić Đ.: Aditivnost i linearnost funkcija agregacije, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad: Faculty of Technical Sciences, Novi Sad, Serbia, 27 Maj, 2023, pp. 19-24, ISBN 978-86-6022-578-0
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11. Prokić A., Đapić P.: SEMILATTICES OF MAL'CEV BLOCKS, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad, 27 Maj, 2023
12. Prokić I., Dedeić J.: AN INVITATION TO GRAPH TRANSFORMATIONS (Part 2), 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad: Faculty of Technical Sciences, 27 Maj, 2023, ISBN 978-86-6022-578-0
13. Ralević N., Đaković V.: MATEMATIKA U TEHNICI: PRIMENA INOVATIVNIH INŽENJERSKIH METODA, TEHNIKA I ALATA, 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Univerzitet u Novom Sadu i Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 56-59, ISBN 978-86-6022-554-4, UDK: 378(082)
14. Ralević N., Stamenković A., Kršić A.: FAZI TAČKA I FAZI PRAVA, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad: Fakultet tehničkih nauka, 27 Maj, 2023, pp. 95-100, ISBN 978-86-6022-578-0
15. Stojaković M., Carić B.: EXPECTATION AND CONDITIONAL EXPECTATION IN UNCERTAIN SYSTEM, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad, 27 Maj, 2023, pp. 10-14, ISBN 978-86-6022-578-0
16. Stojaković M., Carić B.: Neodređena slučajna promenljiva, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad, 27 Maj, 2023, pp. 15-18, ISBN 978-86-6022-578-0
17. Stratijev J.: Jake Avojder-Avojder igre, 8. *Conference on Mathematics in Engineering: Theory and Applications*, Novi Sad, 27 Maj, 2023

**Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

1. Prokić I., Gilezan S., Prokić S., Popović M., Popović M., Kaštelan I.: Orkestracija algoritama federativnog učenja iz ugla formalizacije i verifikacije, 1. *Konferencija "Veštačka inteligencija"*, Beograd: SANU, 26-27 Decembar, 2023

2. Ralević N.: Pseudo linear combination of fuzzy metric, 2. *Mathematical meeting of Serbia and Montenegro*, Beograd: Faculty of mathematics, University of Belgrade, 26-28 Januar, 2023, pp. 10-10

**Spisak rezultata M71 - Odbranjena doktorska disertacija**

1. Ostojić (Stojančević T.: Modifications of Newton-type methods for solving semi-smooth stochastic optimization problems, Novi Sad, 2023
2. Stratijev J.: Strong positional games, Novi Sad, 2023

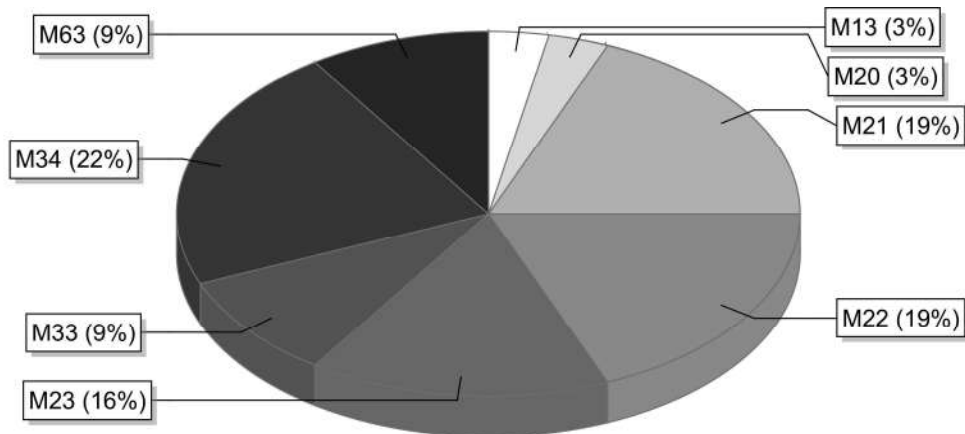


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za fiziku

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja	M13	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	6
Rad u istaknutom međunarodnom časopisu	M22	6
Rad u međunarodnom časopisu	M23	5
Saopštenje sa međunarodnog skupa štampano u celini	M33	3
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	7
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	3



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M13 - Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja**

1. Satarić M., Nemeš T.: Calcium Signaling Along Actin Filaments in Stereocilia Controls Hair-Bundle Motility, Springer-Singapore, 2023, ISBN 978-981-19-5322-4

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Stojković (Jakonić) I., Todorović (Žikić) N., Nikolov J., Vraneš M., Papović S., Zečević M.: 137Cs direct measurement in water via LSC techniques, Radiation Physics and Chemistry, 2023, Vol. 206, No. 110773, ISSN 0969-806X

### **Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu**

1. Budinski-Petković Lj.: Consequences for predator-prey dynamics caused by the presence of obstacles, Journal of Statistical Mechanics: Theory and Experiment, 2023, ISSN 1742-5468
2. Budinski-Petković Lj.: Percolation and jamming properties in growth model on a lattice with impurities, Journal of Statistical Mechanics: Theory and Experiment, 2023, ISSN 1742-5468
3. Budinski-Petković Lj.: Percolation in random sequential adsorption of polydisperse mixtures of extended objects on a triangular lattice, Journal of Statistical Mechanics: Theory and Experiment, 2023, ISSN 1742-5468
4. Kojić T., Simić M., Vučinić-Vasić M., Stojanović G.: Sensing system based on knitted electrodes for fruit quality evaluation, Journal of Food Engineering, 2023, Vol. 353, pp. 1-9, ISSN 0260-8774
5. Simić M., Stavrakis A., Milić L., Vučinić-Vasić M., Stojanović G.: Textile-based heating system for safe localized warts treatment, Journal of Science: Advanced Materials and Devices, 2023, ISSN 2468-2179
6. Zafar H., Vučinić-Vasić M., Popović Ž., Babković K., Stojanović G.: Influence of stitch type division and geometry on the electrical properties of conductive embroidered structures, Journal of Industrial Textiles, 2023, Vol. 53, ISSN 1530-8057

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Ilić D., Šetrajčić J., Jačimovski S., Vučenović S.: Phonon share to the thermal capacitance of ultrathin crystalline film along the entire temperature region, Modern Physics Letters B, 2023, ISSN 0217-9849
2. Ilić D., Vojnović N.: Exact definition of optical phenomena and characteristics of ultrathin crystalline molecular films, Modern Physics Letters B, 2023, Vol. 37, No. 24, pp. 1-16, ISSN 0217-9849
3. Ilić S., Krmar M., Knežević D., Maletić D., Jovančević N.: Detection of high energy X-ray radiation following muon captures on Pb, Astroparticle Physics, 2023, Vol. 153, ISSN 0927-6505
4. Pantić V., Šupić S., Vučinić-Vasić M., Nemeš T., Malešev M., Lukić I., Radonjanin V.: EFFECTS OF GRINDING METHODS AND WATER-TO-BINDER RATIO ON THE PROPERTIES OF CEMENT MORTARS BLENDED WITH BIOMASS ASH AND CERAMIC POWDER, Materials, 2023, No. 16, pp. 1-28, ISSN 1996-1944
5. Stojković (Jakonić) I., Todorović (Žikić) N., Nikolov J., Krajcar Bronić I.: Validation of direct methods for biogenic fraction assessment in fuels on a liquid scintillation counter, Journal of Radioanalytical and Nuclear Chemistry, 2023, ISSN 0236-5731
6. Vučenović S., Šetrajčić-Tomić A., Vojnović N., Ilić D., Šetrajčić J.: Exact definition of optical phenomena and characteristics of ultrathin crystalline molecular films, Modern Physics Letters B, 2023, Vol. 37, No. 24, pp. 1-16, ISSN 0217-9849

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Beljin M., Čavić M., Horvat S., Bogdanović (Rančić) I., Stanisavljević J.: The impact of project-based learning in physics education on university students' motivation to learn and metacognition., Zbornik Instituta za pedagoška istraživanja, 2023, Vol. 55, No. 2, pp. 275-299
2. Marčeta (Tasovac) U., Vučinić-Vasić M., Ninkov J., Ilić S., Vujić (Francuski) B.: Health risk assessment of toxic elements in sedimentable dust from landfills, Journal of the Serbian Chemical Society, 2023, Vol. 88, No. 7-8, pp. 777-791, ISSN 0352-5139
3. Samardžić S., Mihailović A., Adamović (Majkić) S., Adamović D., Banjanin B., Rajs V., Lakatoš R.: Noise and lighting as physical stressors in a printing laboratory - A case study, Environmental Engineering and Management Journal, 2023, Vol. 22, No. 3, pp. 595-606, ISSN 1582-9596
4. Satarić M., Nemeš T., Zdravković S.: Calcium messages in flagella are faster than messenger particles,

5. Satarić M., Nemeš T.: On the role of calcium diffusion and its rapid buffering in intraflagellar signaling, *European Biophysics Journal*, 2023, Vol. 52, pp. 705-720, ISSN 0175-7571

**Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Forkapić S., Zečević M., Knežević Radić J., Velimirović D., Hansman J., Lakatoš R., Samardžić S., Kalkan K.: Geogenic radon mapping and detailed analysis of indicative parameters for radon risk assessment in Niška banja as a potential RPA in Serbia, 16. *International Workshop GARRM (on the Geological Aspects of Radon Risk Mapping)*, Prague, 19-21 September, 2023
2. Mihailović A., Lakatoš R., Samardžić S., Adamović (Majkić) S., Ninkov J., Adamović D., Milić S.: Content of potentially toxic elements in soil of urban parks in Novi Sad, 13. *International Conference Industrial Engineering and Environmental Protection - IIZS*, Zrenjanin: Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Đure Đakovića bb, 23101 Zrenjanin, Republic of Serbia, 5-6 October, 2023, pp. 344-349, ISBN 978-86-7672-368-3
3. Nemeš T., Budinski-Petković Lj., Samardžić S., Beljin M.: Određivanje toplotne provodljivosti metala - realizacija aparature i postupka merenja za potrebe nastave iz fizike, 14. *International Scientific Conference ETIKUM*, Novi Sad, 7-9 December, 2023, ISBN 978-86-6022-617-6

**Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu**

1. Adamović (Majkić) S., Tomić I., Banjanin B., Milošević R., Adamović D., Mihailović A., Dramićanin M.: The heavy metals in the processing screen printing inks, 29. *International Symposium on Analytical and Environmental Problems*, Szeged: University of Szeged, H-6720 Szeged, Dugonics tér 13, Hungary, 13-14 November, 2023, pp. 64-65, ISBN 978-963-306-963-9
2. Forkapić S., Lakatoš R., Hansman J., Gulan Lj., Samardžić S., Bikit K., Kuzmanović P., Knežević Radić J.: Dose assessment from exhalation and gamma spectrometry measurements of soils and stones as building materials, 11. *International Conference on Radiation, Natural Sciences, Medicine, Engineering, Technology and Ecology (RAD)*, Herceg Novi: RAD Centre, Niš, Serbia, 19-23 June, 2023, pp. 278-278, ISBN 978-86-901150-6-8
3. Lakatoš R., Mihailović A., Forkapić S., Samardžić S., Ninkov J., Kalkan K., Bikit K.: Comprehensive research on environmental pollutants hazardous to health in urban zones in the city Novi Sad, Serbia, 6. *International Conference on Sustainable Sciences and Technology - ICSuSaT*, Istanbul, 14-16 July, 2023
4. Mihailović A., Samardžić S., Lakatoš R., Adamović (Majkić) S., Ninkov J., Ralević N., Forkapić S.: Arsenic, cobalt, chromium, and nickel content in topsoil of industrial areas, 11. *International Conference on Radiation, Natural Sciences, Medicine, Engineering, Technology and Ecology (RAD)*, Herceg Novi: RAD Centre, Niš, Serbia, 19-23 June, 2023, pp. 60-60, ISBN 978-86-901150-6-8
5. Mihailović A.: Arsenic, cobalt, chromium, and nickel content in topsoil of industrial areas, Book of Abstracts, 2023, Vol. 11, pp. 60-60, 11. *International Conference on Radiation, Natural Sciences, Medicine, Engineering, Technology and Ecology (RAD)*, Herceg Novi: RAD Centre, 19-23 June, 2023, pp. 60-60, ISBN 978-86-901150-6-8
6. Nemeš T., Mrđa D.: Calibration of HPGe detector with non-calibrated sources, 11. *International Conference on Radiation, Natural Sciences, Medicine, Engineering, Technology and Ecology (RAD)*, Herceg Novi, 19-23 June, 2023
7. Stojković (Jakonić) I., Todorović (Žikić) N., Nikolov J., Borović T., Vraneš M., Gadžurić S.: Investigation of several new ionic liquids' behavior during 210Pb/210Bi Cherenkov counting in waters, 23. *International Conference on Radiation Applications (RAP 2023)*, Hellenic Centre of Marine Research, Anavyssos, Attica, Greece, Anavyssos, 29-2 May, 2023, pp. 36-36, ISBN 978-86-81652-05-3

**Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Adamović (Majkić) S., Milošević R., Banjanin B., Tomić I., Adamović D., Mihailović A., Dramićanin M.: Gasovite zagađujuće materije u radnom okruženju tampon mašine, 14. *International Scientific Conference ETIKUM*, Novi Sad: University of Novi Sad, Faculty of technical sciences, Department of production engineering, 7-9 Decembar, 2023, pp. 185-188, ISBN 978-86-6022-617-6
2. Nikolov J., Vuković S., Vraničar A., Stojković (Jakonić) I., Todorović (Žikić) N., Papović S., Vraneš M.: Calibration of LSC detector for the development of method for measuring uranium in groundwater, 32. *XXXII Simpozijum Društva za zaštitu od zračenja Srbije i Crne Gore DZZSCG*, Budva, 4-6 Oktobar, 2023, pp. 293-297, ISBN 978-86-7306-169-6
3. Zečević M., Forkapić S., Knežević Radić J., Lakatoš R., Velimirović D., Hansman J., Mrđa D., Bikit K., Samardžić S., Kalkan K.: RAZVOJ METODOLOGIJE ZA BRZU DIJAGNOSTIKU POVIŠENIH NIVOA

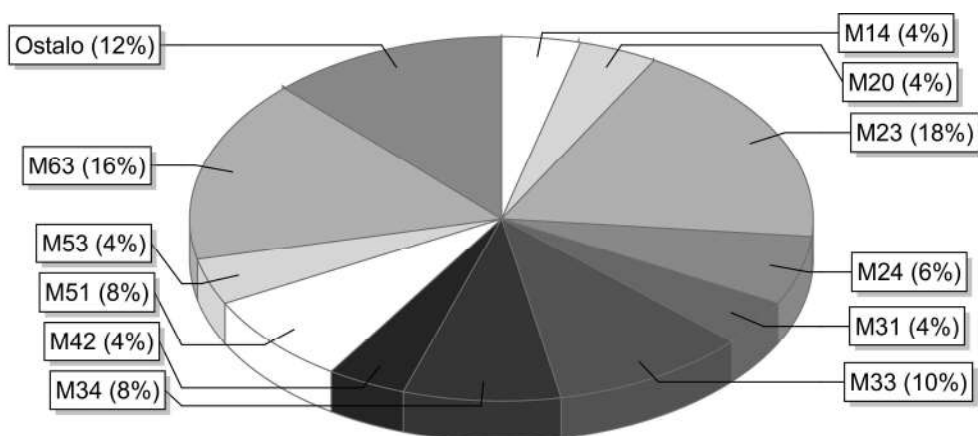
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za društvene nauke

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje međunarodnog naučnog časopisa; Uređivanje tematskih monografija	M29a	1
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	2
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	9
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	3
Naučna kritika i polemika u međunarodnom časopisu	M26	1
Uređivanje međunarodnog naučnog časopisa	M28	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	2
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	1
Rad u vodećem časopisu nacionalnog značaja	M51	4
Rad u naučnom časopisu	M53	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	8
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M29a - Uređivanje međunarodnog naučnog časopisa; Uređivanje tematskih monografija**

1. Bogdanović V., Gak D.: LSP Education Serving Cross-Cultural Communication, Volume guest editors Vesna Bogdanovic and Dragana Gak, Educational Role of Language Journal, Special issue 1, Krakow, International Association for the Educational Role of Language, 2023

### **Spisak rezultata M14 - Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja**

1. Jolović I., Berber N.: Evidence of Job Insecurity and Organizational Commitment Relationship: Empirical Insights from Millennial Employees' Perspective During the COVID-19 Era, Cham, Springer International Publishing, 2023, str. 606-625, ISBN 978-3-031-18644-8
2. Radić-Bojanić B., Bogdanović V.: AUTORSKO SAMOUPUČIVANJE U STUDENTSKIM MASTERSKIM RADOVIMA NA ENGLLESKOM JEZIKU: KROSKULTURNA STUDIJA, Novi Sad, Filozofski fakultet, 2023, str. 95-108, ISBN 978-86-6065-831-1, UDK: 001.89:811.111.378.4

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Šević A., Zečar J., Nešić Tomašević A., Popović Šević N., Slijepčević M., Dudić B.: Analyzing the Banking Business: Relevance of Service Value for the Satisfaction and Loyalty of Consumers, Mathematics, 2023, Vol. 19, No. 24, ISSN 2227-7390
2. Tratnik A., Gak D., Baggia A., Jerebic J., Rajković U., Grbić T., Duraković N., Medić S., Žnidaršič A.: Factors influencing student-professor email communication in higher education, Education and Information Technologies (Online), 2023, pp. 1-27, ISSN 1573-7608

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

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### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Bogdanović V., Topalov J., Pavičić Takač V.: The analysis of graduate students' use of transition markers, ERL Journal - Special Issue 1 (2023) - LSP EDUCATION SERVING CROSS-CULTURAL COMMUNICATION, 2023, Vol. 1, pp. 47-60, ISSN 2657-9774
2. Gak D., Bogdanović V., Bulatović V.: Structural Analysis of Lexical Bundles in Graduate Students' Research Paper Abstracts, Folia linguistica et litteraria - Journal of Language and Literary Studies, 2023, No. 46, pp. 155-174, ISSN 1800-8542, UDK: 81'373:001
3. Gak D.: THE USE OF THE MOTHER TONGUE IN ESP TEACHING AND LEARNING FROM THE STUDENTS' PERSPECTIVE: THE CASE OF SERBIAN , ESP Today, 2023, Vol. 11, No. 1, pp. 96-118, ISSN 2334-9050
4. Gojkov-Rajić A., Šafranjić J., Gak D.: Self-Confidence in Metacognitive Processes In L2 Learning, International Journal of Cognitive Research in Science, Engineering and Education (IJCRSEE), 2023, Vol. 11, No. 2, pp. 1-13, ISSN 2334-847X
5. Katić M., Novakov P.: LSP bilingual dictionary compilation: the role of translation stage in communicating the knowledge of different engineering disciplines, ERL Journal - Special Issue 1 (2023) - LSP EDUCATION SERVING CROSS-CULTURAL COMMUNICATION, 2023, No. 1, pp. 61-73, ISSN 2657-9774
6. Milić M., Panić Kavgić O., Kardoš Stojanović A.: A New English-Serbian Dictionary of Sports Terms in the Light of Contemporary Challenges, Lexikos, 2023, Vol. 33, No. 1, pp. 47-67, ISSN 2224-0039
7. Mirović I., Berić A.: Developing engineering students' presentation skills using a genre-based approach, Educational Role of Language Journal, 2023, Vol. 1, No. 1, pp. 74-85, ISSN 2657-9774
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9. Šafranjić J., Bogdanović V., Gak D.: Interplay of Personality, Self-Efficacy and Willingness to Communicate, Didactica Slovenica: Pedagoška Obzorja, 2023, Vol. 38, No. 2, pp. 50-72, ISSN 0353-1392

### **Spisak rezultata M24 - Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom**

1. Bulatović V., Bogdanović V., Gak D.: Jezik diskusionih foruma na relacijama student-student i student-sadržaj, Zbornik radova Filozofskog fakulteta Univerziteta u Prištini, 2023, Vol. 53, No. 4, pp. 73-89, ISSN 0354-3293, UDK: 378.147::811'243(497.11)

2. Dukić Mijatović M., Uzelac O., Stojković A.: Dukić Mijatović M., Uzelac O., Stojković A., CORPORATE SOCIAL RESPONSIBILITY AND SUSTAINABLE DEVELOPMENT – INTERNATIONAL LEGAL FRAMEWORK FOR GOAL ACHIEVEMENT AND SOME THEORETICAL INSIGHTS, *Pravo - teorija i praksa*, 2023, Vol. 40, No. 1, pp. 1-16, ISSN 0352-3713, UDK: 005. 35:316.64
3. Dukić Mijatović M.: Dukić Mijatović Marijana, Djordjević Dragan, Standby letter of credit as a means of security in international contractual relations, *Pravo - teorija i praksa*, 2023, Vol. 40, No. 4, pp. 1-16, ISSN 0352-3713, UDK: 339.72:347.468

#### **Spisak rezultata M26 - Naučna kritika i polemika u međunarodnom časopisu**

1. Kardoš Stojanović A.: Tvrtko Prčić, Jasmina Dražić, Mira Milić, Milan Ajdžanović, Sonja Filipović Kovačević, Olga Panić Kavgić, Strahinja Stepanov. Srpski rečnik novijih anglicizama (Filozofski fakultet, Novi Sad, 2021, 641 str.): prikaz, *Južnoslovenski filolog*, 2023, Vol. 79, No. 2, pp. 302-315, ISSN 0350-185X

#### **Spisak rezultata M28 - Uređivanje međunarodnog naučnog časopisa**

1. Šafranjan J.: Lektorisanje i prevođenje, *Građevinski materijali i konstrukcije*, 2023, ISSN 2217-8139

#### **Spisak rezultata M31 - Predavanje po pozivu sa međunarodnog skupa štampano u celini**

1. Dukić Mijatović M.: Дукић Мијатовић Маријана, Бабић Недељко, "Правне новеле у функцији спровођења реформе управљања јавним финансијама у Републици Србији", 20. *20th International Scientific Conference "Legal days-Prof. Slavko Carić, PhD" "TWO DECADES OF THE DEVELOPMENT OF LEGAL THOUGHT"*, Novi Sad: Pravni fakultet za privredu i pravosuđe Univerzitet Privredna akademija Novi Sad, 6-7 October, 2023, pp. 69-81, ISBN 978-86-86121-58-5
2. Dukić Mijatović M.: Дукић Мијатовић Маријана, Дуални модели студија у високом образовању у Републици Србији, актуелности и перспективе развоја, 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka Novi Sad, 8-11 February, 2023, pp. 1-16, ISBN ISBN 978-86-6022-554

#### **Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini**

1. Jolović I., Jolović N.: The Linkage of Organizational Culture with Organizational Commitment: Prospects for Embedding a Sustainable Development Strategy at the Corporate Level, 9. *International Scientific Conference „Socio-Economic Aspects of Development After the Pandemic“*, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 10 June, 2023, pp. 129-151, ISBN 978-86-6022-601-5
2. Šafranjan J., Berić A., Prtljaga J.: Interaktivni pristup i saradnja u nastavi stranog jezika za darovite, 29. *Međunarodni naučni skup "Kompleksnost darovitosti u kulturi učenja" (29. okrugli sto o darovitima)*, Vršac, 7 July, 2023, pp. 276-285
3. Šafranjan J., Gojkov-Rajić A., Prtljaga J.: Communication Apprehension in the Gifted: A Determinant of Willingness to Communicate, 28. *The 28th Round Table on Giftedness: Affective Personality Dimensions and Giftedness Fulfillment, July 1st, 2022, Preschool Teacher Training College, Vršac, Serbia.*, Vršac, 2023
4. Šafranjan J., Kardoš Stojanović A.: Social networking as an e-learning platform for gifted students in English for specific purposes, 8. *The 8th International Scientific Conference: Talent Education, Ljubljana 2023*, Ljubljana, 12-13 October, 2023, pp. 37-42
5. Šafranjan J.: Multilingualism Within the Framework of Education 4.0, 12. *The 12th International Scientific Conference: Globalization Challenges and the Social Economic Environment of the EU, 18.05.2023.*, University of Novo Mesto., Novo Mesto, 2023

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1. Bulatović V., Bogdanović V., Gak D.: The Use of Hypertext in Academic Blogs Written in Italian and English – A Case Study, 1. *Prva međunarodna konferencija Italijanski jezik, književnost, istorija i kultura. Susreti u stvarnom, virtuelnom i imaginarnom prostoru. 20-21. maj 2023. Novi Sad, Srbija.*, Novi Sad: Filozofski fakultet, 20-21 May, 2023, pp. 40-41, ISBN 978-86-6065-797-0
2. Jolović N., Jolović I.: Perceived Overqualification as a Contributing Factor to Employees' Intention to Leave the Organization: The Mediating Effect of Job Satisfaction, 1. *International Scientific Conference TIMTED 2023 „Current Economic Trends in Emerging and Developing Countries“*, Timisoara: Faculty of Economics and Business Administration, West University of Timisoara, 2023, pp. 85-85, ISBN 2668-3377
3. Pavičić Takač V., Bogdanović V.: Exploring interactional metadiscourse in novice academic writing: A closer look at adjectives, 3. *3rd International Conference of the Slovene Association of LSP Teachers Languages for Specific Purposes: Opportunities and Challenges of Teaching and Research. 18-20 May 2023. Rimske terme, Slovenia.*, Rimske terme: Slovene Association of LSP Teachers, 2023, pp. 46-46, ISBN 978-961-95543-3-3
4. Šafranjan J., Berić A., Prtljaga J.: Interaktivni pristup i saradnja u nastavi stranog jezika za darovite, *Zbornik*

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#### **Spisak rezultata M42 - Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta**

1. Bulatović V.: Žanr asinhronih diskusionih foruma u nastavi engleskog jezika, Novi Sad, Filozofski fakultet, 2023, ISBN 978-86-6065-778-9, UDK: 371.3:811.111
2. Dukić Mijatović M.: Dukić Mijatović Marijana Kompanijsko pravo Republike Srbije – Savremene tendencije razvoja i instituti komunitarnog prava, Beograd, JP Službeni glasnik Beograd i Institut za uporedno pravo Beograd, 2023, ISBN 978-86-519-2989-5

#### **Spisak rezultata M45 - Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja**

1. Šafer M., Kardoš Stojanović A., Savić M., Obradović M.: Prikupljanje, odabir i obrada građe za Srpski rečnik novijih anglicizama. U: T. Prčić i J. Dražić (ur.). Srpski rečnik novijih anglicizama: od ideje do realizacije. Praktični leksikografski vodič, Novi Sad, Filozofski fakultet, 2023, str. 81-100, ISBN 978-86-6065-780-2

#### **Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja**

1. Bulatović V., Bogdanović V.: Student and teacher opinions on class sizes and types of assessment in higher education LSP classrooms: A pilot study, *Metodički vidici*, 2023, Vol. 14, No. 2, pp. 161-182, ISSN 2217-415X, UDK: 78.016:811.111
2. Bulatović V., Prošić-Santovac D.: Ogledalo savremenog društva: Potrošačko društvo, mediji i simulirana realnost u romanu Bijela buka Dona Delila, *Filolog - časopis za jezik, književnost i kulturu*, 2023, Vol. 14, No. 28, pp. 343-360, ISSN 2233-1158
3. Milić M., Panić Kavgić O., Kardoš Stojanović A.: A New English-Serbian Dictionary of Sports Terms: Theoretical and Practical Aspects, *Godišnjak Filozofskog fakulteta u Novom Sadu*, 2023, Vol. 48, No. 3, pp. 239-256, ISSN 0374-0730, UDK: 811.111'374.2'373.46:79=163.4181'374
4. Nešić Tomašević A., Lazar Ž.: Sociokulturni aspekti političkog aktivizma - predlog novog modela, *POLITEIA: Naučni časopis Fakulteta političkih nauka u Banjoj Luci za društvena pitanja*, 2023, Vol. 11, No. 22, pp. 37-54, ISSN 2232-9641

#### **Spisak rezultata M53 - Rad u naučnom časopisu**

1. Katić M., Novakov P.: LSP bilingual dictionary compilation: the role of translation stage in communicating the knowledge of different engineering disciplines, *ERL Journal - Special Issue 1 (2023) - LSP EDUCATION SERVING CROSS-CULTURAL COMMUNICATION*, 2023, Vol. 2, pp. 61-73, ISSN 2657-9774
2. Mirović I., Bulatović V.: The 11th International Language Conference - The Importance of Learning Professional Foreign Languages for Communication Between Cultures, *ERL Journal - Special Issue 1 (2023) - LSP EDUCATION SERVING CROSS-CULTURAL COMMUNICATION*, 2023, pp. 103-104, ISSN 2657-9774

#### **Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini**

1. Berić A., Mirović I.: Karakteristike inženjerskih prezentacija kao specifičnog vida profesionalne i akademske komunikacije, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 277-280
2. Grubić-Nešić L., Sitarević A., Nešić Tomašević A.: Preconditions for Professional Identity Development: Are the Outcomes of the Educational Process Clear?, 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 235-238
3. Kardoš Stojanović A., Šafran J., Zivlak J.: Upotreba elektronskog izdanja Srpskog rečnika novijih anligizama u nastavi engleskog jezika za inženjere, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 107-110, ISBN 978-86-6022-554-4
4. Katić M.: ESP as a Medium for Opening New Horizons in Engineering Education, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 361-364
5. Nešić Tomašević A., Sofić A., Perić A.: Importance of Social Competencies between Industry 4.0 and 5.0 – Where are we? , 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka, 8-11 Februar, 2023, pp. 239-242
6. Šafran J., Bulatović V., Gak D.: The Role of Information and Communication Technologies in Self-regulated language Learning, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 239-242



7. Šafranjan J., Zivlak J., Kardoš Stojanović A.: E-learning Environment for ESP teaching, 29. 29. *Skup TRENDOVI RAZVOJA Univerzitet pred novim izazovima*, Vrnjačka Banja, 8-11 Februar, 2023, pp. 247-250
8. Zivlak J., Šafranjan J., Kardoš Stojanović A.: Upotreba aplikacija u učenju stranih jezika od strane studenata inženjerstva, 29. *Trendovi razvoja: Univerzitet pred novim izazovima*, Vrnjačka Banja: Fakultet tehničkih nauka Novi Sad, 8-11 Februar, 2023, pp. 103-106, ISBN 978-86-6022-554-4

**Spisak rezultata M64 - Saopštenje sa skupa nacionalnog značaja štampano u izvodu**

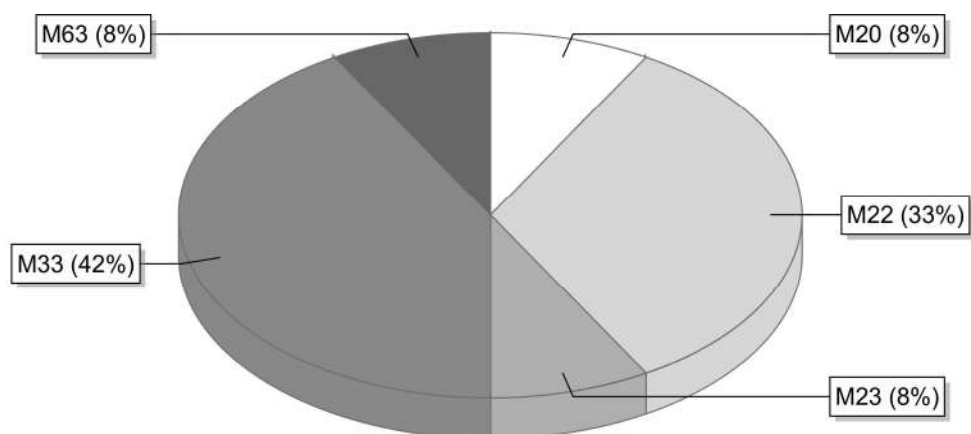
1. Zivlak J.: Racionalna i iracionalna uverenja kao prediktori školskog uspeha, 13. *Kongres psihoterapeuta Srbije*, Beograd: Savez društava psihoterapeuta Srbije, 2023, ISBN 978-86-6423-098-8

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za animaciju u inženjerstvu

Zbirni pregled naučno istraživačkih rezultata u 2023. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u istaknutom međunarodnom časopisu	M22	4
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

### **Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti**

1. Krstanović L., Popović B., Janev M., Brkljač B.: Feature Map Regularized CycleGAN for Domain Transfer, *Mathematics*, 2023, Vol. 11, No. 2: 372, pp. 1-21, ISSN 2227-7390

### **Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu**

1. Obradović M., Mišić S., Vasiljević I., Ivetić D., Obradović R.: The Methodology of Virtualizing Sculptures and Drawings: A Case Study of the Virtual Depot of the Gallery of Matica Srpska, *Electronics (Basel)*, 2023, Vol. 12, No. 19, ISSN 2079-9292
2. Perišić A., Lazić M., Perišić I.: Assessment of Building Air Quality in Respect of Eight Different Urban Block Designs Based on CFD Simulations, *Applied Sciences*, 2023, Vol. 13, No. 13, ISSN 2076-3417
3. Perišić A., Lazić M., Perišić I.: Simulation-Based Engineering of Heterogeneous Collaborative Systems—A Novel Conceptual Framework, *Sustainability*, 2023, Vol. 15, No. 11, pp. 8804-8828, ISSN 2071-1050
4. Perišić A., Perišić I., Lazić M., Perišić B.: The foundation for future education, teaching, training, learning, and performing infrastructure - The open interoperability conceptual framework approach, *Heliyon*, 2023, Vol. 9, No. 6, pp. 1-16, ISSN 2405-8440

### **Spisak rezultata M23 - Rad u međunarodnom časopisu**

1. Vasiljević I., Santoši Ž., Obradović M., Popkonstantinović B., Budak I., Obradović R.: Copyright Protection of 3D Digitized Sculptures by Use of Haptic Device for Adding Local-Imperceptible Bumps, *Tehnički vjesnik - Technical Gazette*, 2023, Vol. 30, No. 6, pp. 2001-2008, ISSN 1330-3651, UDK: 62(05)=163.42=111

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2. Đurić I., Obradović M., Stojaković V.: Free software for image-based modeling education: Comparative analysis - advantages and disadvantages, 9. *Mongeometrija*, Novi Sad: Faculty of Technical Sciences, University of Novi Sad; Serbian Society for Geometry and Graphics SUGIG, 7-10 June, 2023, ISBN 978-86-6022-575-9
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**4.0 Репрезентативне референце  
истраживача  
Радови објављени у часописима  
међународног значаја ранга  
M21a, M21, M22, M23  
тј. часописима са ISI листе  
(са импакт фактором)  
у периоду 2013/2023.**

# Departman za proizvodno mašinstvo

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