

# ГОДИШЊИ ИЗВЕШТАЈ О НАУЧНОИСТРАЖИВАЧКОЈ ДЕЛАТНОСТИ 2017

УНИВЕРЗИТЕТ У НОВОМ САДУ  
ФАКУЛТЕТ ТЕХНИЧКИХ НАУКА



**Годишњи извештај о научноистраживачкој делатности 2017.  
је резултат рада на пројекту:**

**“ПРЕДЛОГ НОВИХ МЕТОДА ЗАСНОВАНИХ НА  
ДИГИТАЛНИМ ТЕХНОЛОГИЈАМА У НАСТАВИ И  
ИСТРАЖИВАЊУ НА СТУДИЈСКИМ ПРОГРАМИМА  
ФАКУЛТЕТА ТЕХНИЧКИХ НАУКА“**

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*Захваљујемо се:*

*ауторима радова, учесницима на пројектима,  
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ДИГИТАЛНИМ ТЕХНОЛОГИЈАМА У НАСТАВИ И ИСТРАЖИВАЊУ НА  
СТУДИЈСКИМ ПРОГРАМИМА ФАКУЛТЕТА ТЕХНИЧКИХ НАУКА“  
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Центру за рачунарство, Служби маркетинга ФТН и Служби за  
међународну сарадњу.*

## ПРЕДГОВОР

*Материја изложена у овој публикацији представља збирни резултат рада свих научних радника и истраживача Факултета техничких наука у Новом Саду. Представља нам велико задовољство да, по дванести пут, представимо наш Годишњи извештај о научноистраживачкој делатности. Овог пута је то учињено за 2017. годину. И овај годишњи извештај, као и претходних једанаест, настао је као резултат потребе да се представи библиографија наших научних радника и истраживача на пољу развоја науке, технике, технологије и иновација у току једне године. Израда ове публикације, популарно назване „Годишњак“, представља трајну активност којом се континуално доприноси ажурности података о публиковању научних резултата. Реализацијом овог извештаја је настављена полазна идеја, проистекла из првог циклуса акредитације, да се сви резултати у науци настали радом истраживача ФТН обједине и публикују на једном месту. Програмска апликација „Картон научног радника“, која је развијена и усавршена на Факултету техничких наука уз помоћ Покрајинског секретаријата за високо образовање и научноистраживачку делатност, представља основу за прикупљање података и за овај Годишњи извештај као и за претходно објављене. Наравно, како ажурност података у „Картону научног радника“ директно доприноси одговарајућем репрезентовању Факултета техничких наука, у претходној години су учињени додатни напори да се она повећа.*

*Поред резултата научноистраживачког рада у 2017. години дат је списак и свих радова објављених у периоду од 2007. до краја 2017. године у часописима са импакт фактором у циљу представљања репрезентативних резултата. Поред представљања научноистраживачких резултата, овај извештај је и својеврсна база за наредни циклус акредитације научноистраживачке делатности Факултета техничких наука у Новом Саду.*

## 1.0 УВОД

Наука, иновације и технолошки развој су доминантне компоненте економског развоја. Ми данас живимо значајно боље од претходних генерација управо због развоја науке и значајних иновација. Иновације могу бити, али нису увек, засноване на неким научним сазнањима. Друштво које успева да, на економским основама засновано, научна открића и иновације претвара у корисне производе, услуге и производне системе, сигурно напредује. Управо због тога се на Факултету техничких наука значајна пажња поклања развоју науке, иновација али и технолошком развоју као и подстицању предузетништва.

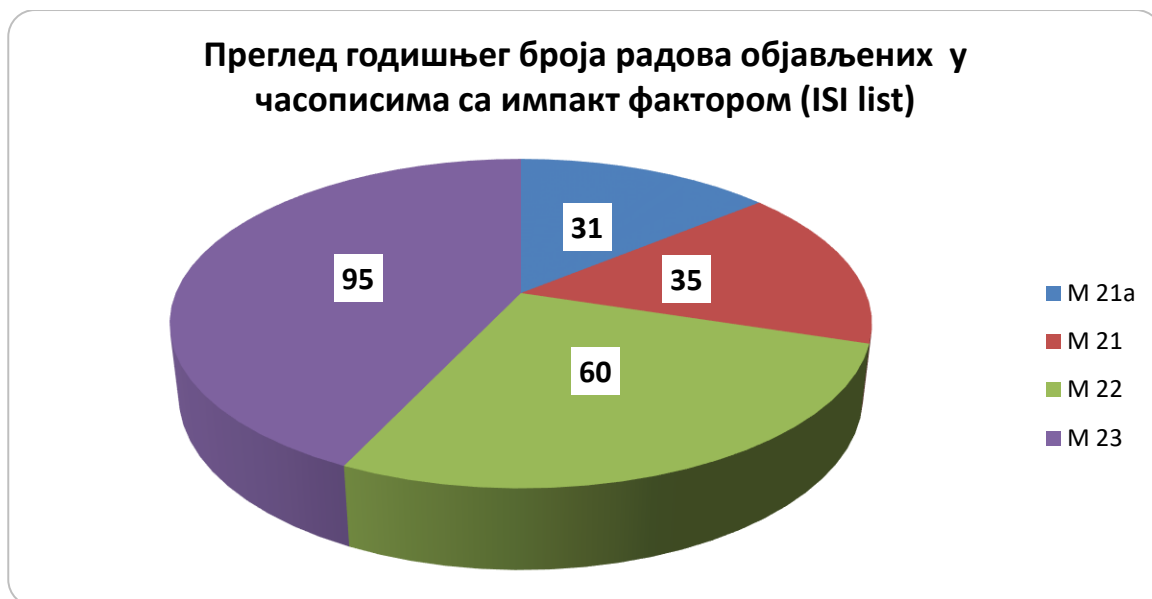
Научноистраживачка делатност на Факултету техничких наука представља једну од три основне делатности којим се бави Факултет, поред наставе и примене резултата у привреди. Бројне лабораторије и остала неопходна инфраструктура (јак интернет, добро опремљена библиотека, приступ преко Кобсона највећем броју квалитетних светских научних часописа итд.) представљају добру основу за квалитетан истраживачки рад и реализацију добрих идеја на Факултету техничких наука.

Факултет техничких наука у континуитету предузима читав низ мера како би поспешео научноистраживачку делатност и додатно подстакао своје асистенте и наставнике да буду продуктивнији у овој области. Неке од тих подстицајних мера су следеће:

- Уведена је годишња награда, која се додељује поводом Дана ФТН-а, за најбољег научника на Факултету. Поред великог признања и стимулативна новчана награда даје додатни подстицај.
- Направљена је Канцеларија за међународну сарадњу, која, поред рада са студентима по питањима размене, има за циљ подршку у проналажењу и помоћ у реализацији међународних научних пројеката.

На слици 1 је приказан преглед броја објављених радова у часописима са импакт фактором у 2017. години (*ISI list*). Преглед је рађен на основу података које су истраживачи уносили у „Картон. научног радника“. Како би се осигурала тачност и ажурност података у „Картону научног радника“ у претходној години су учињени додатни

напори да се она повећа тако што је уведена верификација унетих података коју је вршила посебно формирана комисија. На тај начин су елиминисани погрешно или непотпуно унети подаци а, у неким случајевима, коригована је и класификација радова.



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

Може се уочити да је ова година, гледано по броју радова нешто лошија од 2016. (221 према 234) али се уочава значајан пораст броја квалитетнијих радова. У категорији M23 је смањен број радова, у категорији M21 је остао исти а у две преостале категорије (M22 и M21a) је повећан. Према важећој класификацији научних радова, објављени радови у 2017. години носе 1175 бода док су у 2016. години имали вредност 1156. Гледајући само на основу радова са СЦИ листе, може се констатовати да је индекс компетентности Факултета порастао за 19 поена што је добар резултат.

Међутим, потребно је и даље интензивно деловати у правцу повећања броја објављених радова. Како је у овој години био нешто већи број истраживача, гледано по броју објављених радова по једном истраживачу, добија се нешто лошији резултат (0,255 према 0,284) у односу на претходну годину. Разлог томе је што је примљен већи број младих сарадника који још нису почели да објављују радове. Интересантно је упоредити број објављених радова у односу на докторе наука запослене на Факултету техничких наука јер се на основу тога врши представљање универзитета. За прошлу годину то износи 0,486 што је значајно репрезентативнији податак.

Веома је значајно указати на радове у категорији M21a. Приближно четрнаест процената (31 од 221) радова са ФТН-а спада у ту категорију, што је веома охрабрујуће јер су то радови објављени у најквалитетнијим светским часописима. Једна од мера, која би по нашој процени требало

да повећа број радова, је то што се за изборе сада гледа и да ли је кандидат први аутор.

Факултет техничких наука континуирано наставља да ради у правцу подстицања научноистраживачке делатности а нагласак током 2017. године је био, као и током 2016. године, на већој интернационализацији истраживања путем учешћа на великом броју међународних конкурса. Активно бављење младих истраживача науком се, и даље, подстиче на више начина:

- Сваке године се прима одређени број квалитетних дипломаца и мастера у својству истраживача сарадника на постојеће пројекте које финансира Министарство просвете, науке и технолошког развоја. Поред стипендија које им обезбеђује Министарство, Факултет техничких наука им обезбеђује простор, рачунаре и све друге могућности за рад у овој области.
- Награда за најбољег научника је ограничена на истраживаче старости до 40. година.

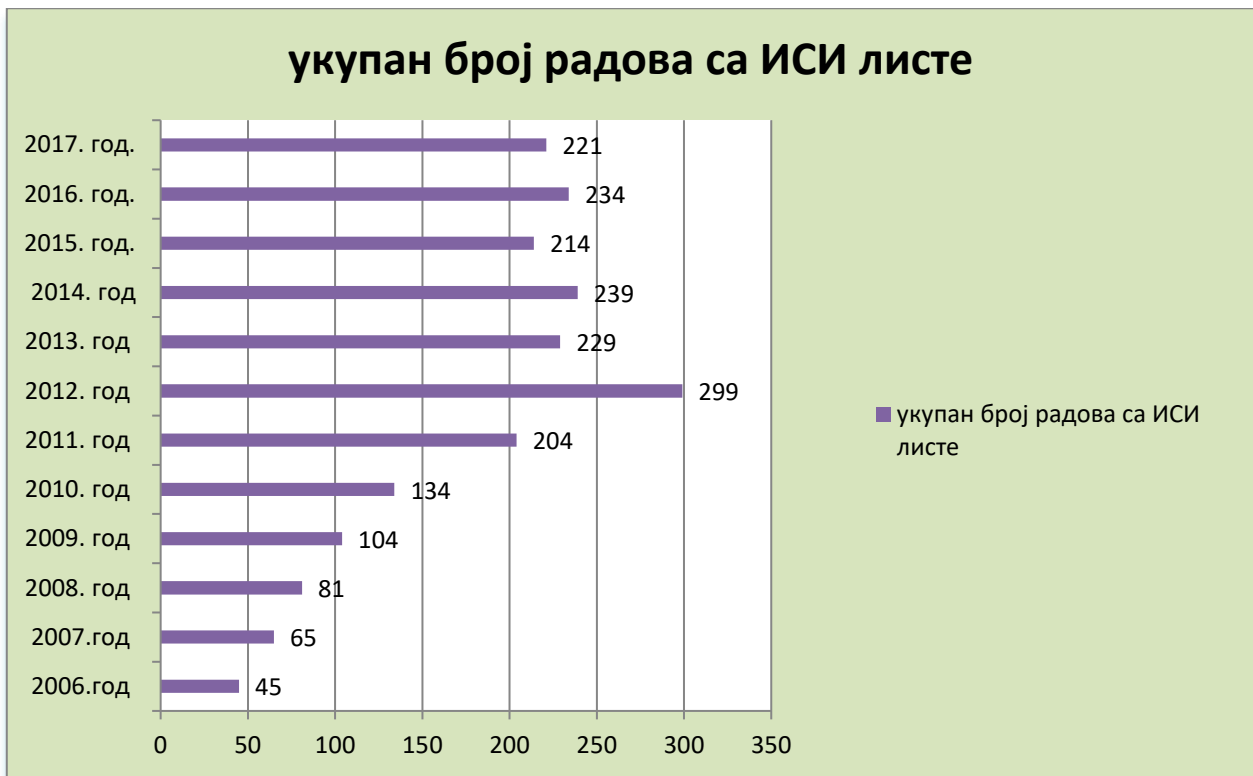
У циљу даљег поспешивања и промоције научноистраживачког рада на Факултету техничких наука, ове године је решено да се доделе две равноправне награде за најбоље научнике. У складу са тим, добитници награде за најбољег научника на Факултету техничких наука су ванредни професор др Немања Кашиковић и доцент др Ивана Бајшански. Оба добитника су у 2017. години остварили изванредне резултате. Посебан квалитет представља и чињеница да овогодишњи добитници долазе са департмана (Графичко инжењерство и дизајн и Архитектура и урбанизам) који до сада нису имали лауреате у овој области.

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

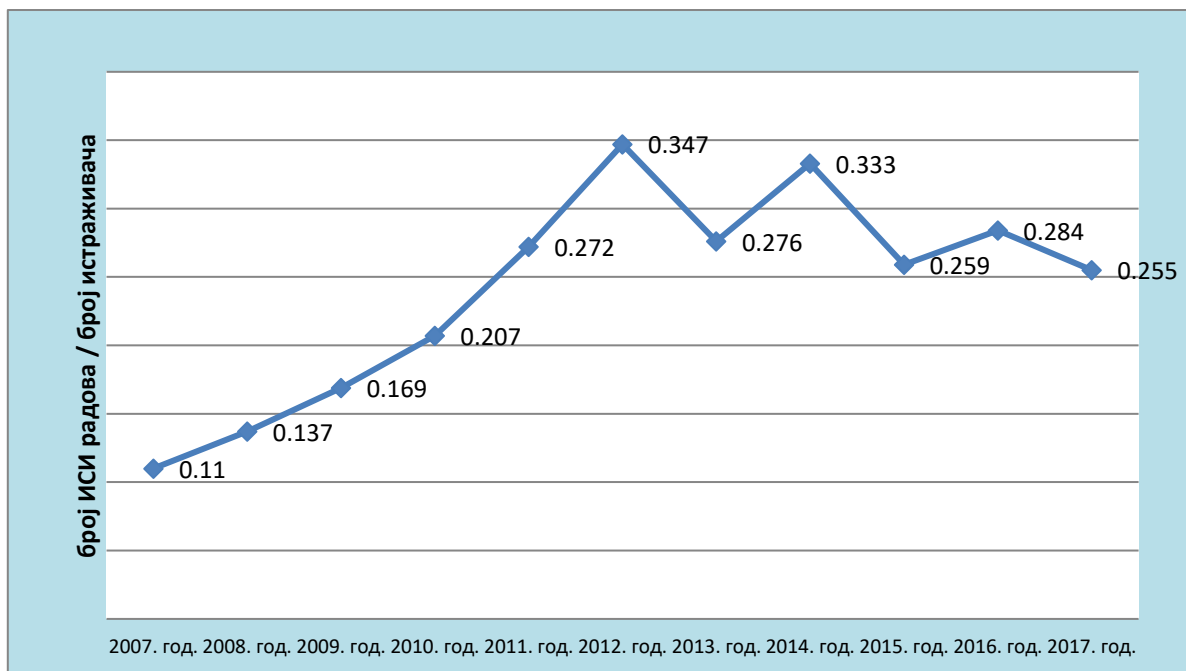
У **поглављу 2** су приказани радови објављени у часописима међународног значаја ранга M21, M21a, M22 и M23 тј. часописима са импакт фактором (*ISI list*) заједно за цео Факултет техничких наука.

На слици 2 је приказана бројна структура ових радова у облику дијаграма а на слици 3 је приказан преглед броја радова по годинама у односу на укупан број истраживача.





Слика 2. Преглед броја радова објављених у часописима са импакт фактором (ISI list) у последњих дванаест година



Слика 3. Преглед броја ИСИ радова у односу на укупан број наставника и сарадника

У поглављу 3 се приказује укупна научна продукција ФТН-а расподељена по Департманима а у поглављу 4 су дате репрезентативне референце истраживача такође расподељене по Департманима у саставу Факултета техничких наука у последњих 10 година.

**2.0 РАДОВИ ОБЈАВЉЕНИ У  
ЧАСОПИСИМА МЕЂУНАРОДНОГ ЗНАЧАЈА  
РАНГА M21a, M21, M22, M23, ТЈ. ЧАСОПИСИМА  
СА ISI ЛИСТЕ (СА ИМПАКТ ФАКТОРОМ)  
У ТОКУ 2017. ГОДИНЕ**

Редни број	Библиографска одредница научног рада	Категорија (М)
1.	Bulatović V., Malešev M., Radeka M., Radonjanin V., Lukić I.: Evaluation of Sulfate Resistance of Concrete With Recycled and Natural Aggregates, Construction and Building Materials, 2017, Vol. 152, pp. 614-631, ISSN 0950-0618(02)00045-4	M21a
2.	Gvozdenac D., Gvozdenac Urošević B., Menke C., Urošević D., Bangviwat A.: High efficiency cogeneration: CHP and non-CHP energy, ENERGY, 135, (2017), pp 269-278, Energy, 2017, No 135, pp. 269-278, ISSN 0360-5442	M21a
3.	Kiurski J., Marić B., Oros I., Kecić V.: The ecodesign practice in Serbian printing industry, Journal of Cleaner Production, 2017, Vol. 149, pp. 1200-1209, ISSN 0959-6526	M21a
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195.	Stepanov J., Ubavin D., Prokić D., Budak I., Stevanović Čarapina H., Stanisavljević N.: Comparison Of Municipal Waste Management Systems Using LCA: South Backa Waste Management Region – Case Study, <i>Environment Protection Engineering</i> , 2017, ISSN 0324-8828	M23
196.	Stevanov B., Stefanović D., Anderla A., Sladojević S., Tasić N.: New Approach to Information Systems Engineering Study Program to Meet Industry Expectations, <i>International Journal of Engineering Education</i> , 2017, Vol. 33, No 4, pp. 1369-1379, ISSN 0949-149X	M23

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199.	Sušić Z., Batilović M., Ninkov T., Bulatović V., Aleksić I., Nikolić G.: Geometric deformation analysis in free geodetic networks: case study for Fruška Gora in Serbia, <i>Acta Geodynamica et Geomaterialia</i> , 2017, Vol. 14, No 3, pp. 341-355, ISSN 2336-4351	M23
200.	Šešlija M., Radović N., Vasić M., Đogo M., Jotić M.: Physico-mechanical properties of fly ash applicable in road construction, <i>Građevinar</i> , 2017, Vol. 69, No 10, pp. 923-932, ISSN 0350-2465	M23
201.	Štrbac B., Radlovački V., Spasić Jokić V., Deliće M., Hadžistević M.: The Difference Between GUM and ISO/TC 15530-3 Method to Evaluate the Measurement Uncertainty of Flatness by a CMM, <i>MAPAN - Journal of Metrology Society of India</i> , 2017, Vol. 32, No 4, pp. 251-257, ISSN 0970-3950	M23
202.	Sučurović A., Tričković J., Maletić S., Kragulj Isakovski M., Kukovec A., Prica M., Dalmacija B.: Effects of Anions on Adsorption of Trace Levels of Cu(II), Pb(II) and Cr(VI) by Amino-Functionalized Multi-Walled Carbon Nanotubes, <i>Revista de Chimie</i> , 2017, Vol. 68, No 2, pp. 362-368, ISSN 0034-7752	M23
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205.	Tomić F., Teofanov N.: Inverse closedness and localization in extended Gevrey regularity, <i>Journal of Pseudo-Differential Operators and Applications</i> , 2017, , Volume 8, Issue 3, pp 411–421 ISSN 1662-9981	M23
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209.	Urbas R., Milošević R., Kašiković N., Pavlović Ž., Stanković Elesini U.: Microcapsules application in graphic arts industry: a review on the state-of-the-art, <i>Iranian Polymer Journal</i> , 2017, Vol. 26, No 7, pp. 541-561, ISSN 1026-1265	M23
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214.	Vranešević M., Belić S., Kolaković S., Kadović R., Bezdan A.: Estimating Suitability of Localities for Biotechnical Measures on Drainage System Application in Vojvodina, <i>Irrigation and Drainage</i> , 2017, Vol. 66, No 1, pp. 129-140, ISSN 1531-0353	M23
215.	Vrgović P., Jošanov Vrgović I.: Crowdsourcing user solutions: which questions should companies ask to elicit the most ideas from its users?, <i>Innovation - Organization &amp; Management</i> , 2017, Vol. 19, No 4, pp. 452-462, ISSN 2204-0226	M23
216.	Zivlak N., Ljubičić M., Xu M., Demko-Rihter J., Lalić B.: Learning by internationalization: Positive effects of innovation in Chinese companies, <i>Tehnicki vjesnik - Technical Gazette</i> , 2017, Vol. 24, No 3, pp. 753-759, ISSN 1330-3651, UDK: 62(05)=163.42=111	M23
217.	Zlokolica V., Krstanović L., Velicki L., Popović B., Janev M., Ralević N., Obradović R., Jovanov Lj., Babin D.: Semiautomatic Epicardial Fat Segmentation Based on Fuzzy c-Means Clustering and Geometric Ellipse Fitting, <i>Journal of Healthcare Engineering</i> , 2017, Vol. 2017, pp. 1-12, ISSN 2040 2295	M23
218.	Zubanov V., Katić (Drezgić) I., Grubić-Nešić L., Berber N.: The Role of Management Teams in Business Success: Evidence from Serbia, <i>Engineering Economics</i> , 2017, Vol. 28, No 1, pp. 68-78, ISSN 1392-2785	M23
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220.	Šagi M., Varga E.: Dependable Peer-to-Peer SCADA Architecture, <i>Acta Polytechnica Hungarica, Journal of Applied Sciences</i> , 2017, Vol. 14, No 6, pp. 231-243, ISSN 1785-8860	M23
221.	Štrbac D., Miroslavljević Z., Štrbac G.: Application of transmittance on separation of glass containers, <i>Environmental Engineering and Management Journal</i> , 2017, Vol. 16, No 10, pp. 2239-2245, ISSN 1582-9596	M23

### **3.0. НАУЧНА ПРОДУКЦИЈА**

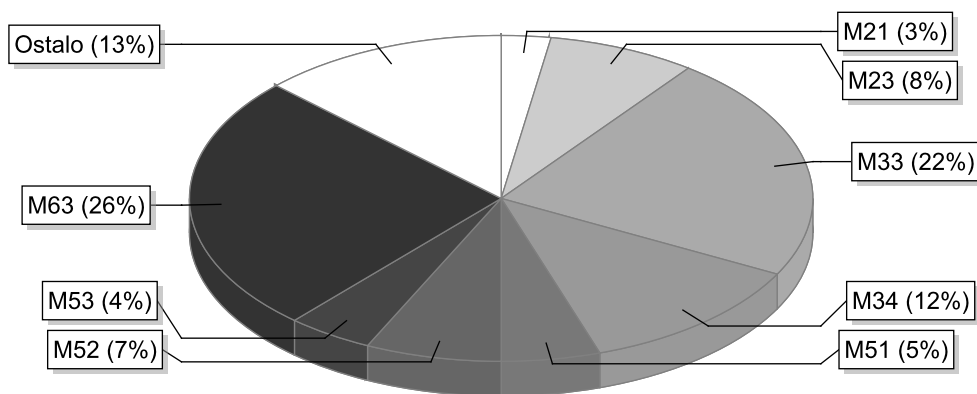


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za proizvodno mašinstvo

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	3
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	12
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	2
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	35
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	19
Monografska bibliografska publikacija	M43	1
Rad u vodećem časopisu nacionalnog značaja	M51	8
Rad u časopisu nacionalnog značaja	M52	11
Rad u naučnom časopisu	M53	7
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	40
Odbranjena doktorska disertacija	M71	1
Bitno poboljšani postojeći proizvod ili tehnologija	M84	2
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	2

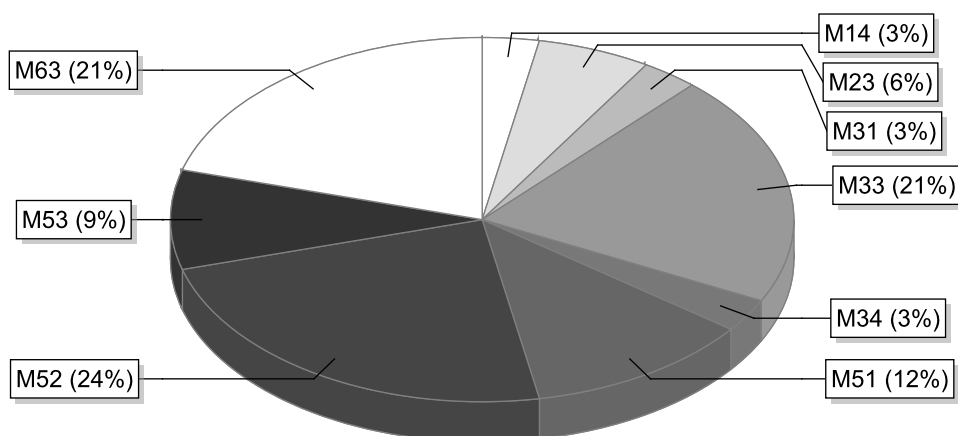


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za procese obrade skidanjem materijala

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	M23	2
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	7
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u vodećem časopisu nacionalnog značaja	M51	4
Rad u časopisu nacionalnog značaja	M52	8
Rad u naučnom časopisu	M53	3
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	7



## PRODUKCIJA - REZULTATI

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

1. Kovač P., Savković B., Rodić D., Gostimirović M., Sekulić M., Ješić D.: Application of Neuro-Fuzzy Systems for Modeling Surface Roughness Parameters for Steel Difficult-to-Cut-Steel,, Pfaffikon, Solid State Phenomena, Trans Tech Publications Ltd, Switzerland, 2017, str. 277-284, ISBN 978-3-0357-1199-8

Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Babić M., Hluchy L., Krammer P., Matović B., Kumar R., Kovač P.: New Method for Constructing a Visibility Graph-Network in 3D Space and a New Hybrid System of Modeling, Computing and Informatics, 2017, Vol. 36, No 5, pp. 1107-1126, ISSN 1335-9150
2. Nemedi I., Sekulić M., Radlovački V., Hodolić J., Hadžistević M., Takacs M.: A Method for Determining Roundness and Actual Form of Circular Workpiece Cross Sections, Acta Polytechnica Hungarica, Journal of Applied Sciences, 2017, Vol. 14, No 6, pp. 169-184, ISSN 1785-8860

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

1. Kovač P., Savković B., Rodić D., Mankova I., Gostimirović M., Sekulić M.: Application of Artificial Intelligence in Modeling and Optimization of Machining processes, 17. International Conference "Research and Development in Mechanical Industry" – RaDMI, Zlatibor: SaTCIP (Scientific and Tehnical Center for Intellectual Poperty), 13-16 Septembar, 2017, pp. 13-16, ISBN 978-86-6075-062-6

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Aleksić Ž., Kovač P., Nedić B., Ješić D.: IN VESTIGATION OF TRIBOLOGICAL CHARACTERISTICS OF THE SAMPLES TAKEN FROM VALVE ON GAS PIPELINE SYSTEM J.P."SERBIAGAS", 15. International Conference on Tribology - SERBIATRIB, Kragujevac: University of Kragujevac, Faculty of Engineering and Serbian Tribology Society, 17-19 Maj, 2017, pp. 239-243, ISBN 978-86-6335-041-0
2. Batinić B., Rodić D., Laković N., Gostimirović M., Kulundžić N.: Acquisition of current impulses in electrical discharge machining, 2. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC, Novi Sad: IEEE, 31-1 Maj, 2017, pp. 37-40, ISBN 978-1-5386-0866-1
3. Gostimirović M., Kovač P., Sekulić M., Milošević M., Lukić D.: INVERSE THERMAL MODELING OF THE ELECTRICAL DISCHARGE MACHINING, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: University of Banja Luka, Faculty of Machanical Engineering, 26-27 Maj, 2017, pp. 37-42, ISBN 978-99938-39-73-6
4. Kovač P., Ješić D., Savković B., Gostimirović M., Gvozdenović N.: Research of tribological characteristics of various oil applied in the tribological system, 15. International Conference on Tribology - SERBIATRIB, Kragujevac: University of Kragujevac, Faculty of Engineering and Serbian Tribology Society, 17-19 Maj, 2017, pp. 481-486, ISBN 978-86-6335-041-0
5. Kovač P., Kirin S., Savković B., Ješić D., Golubović D.: Optimal operating conditions for manure biogas plants in Serbia, 9. International Symposium on Exploitation of Renewable Energy Sources and Efficiency - EXPRES, Subotica: Inženjersko-tehničko udruženje vojvođanskih Mađara, 30-1 Mart, 2017, pp. 69-74, ISBN 978-86-919769-1-0
6. Kovač P., Kulundžić N., Mitrović A., Savković B., Gostimirović M.: FEM milling tools temperature measurement, modelling and simulation, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: Faculty of Technical Sciences, Novi Sad, 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-934-2
7. Pucovski (Pucovsky) V., Sekulić M., Gostimirović M., Kovač P., Savković B., Jovanović D.: CUTTING FORCES DURING ULTRASONIC ASSISTED TURNING OF HARD TO MACHINE MATERIAL SPM10, 8. International Scientific Conference Research and development of mechanical elements and systems - IRMES, Trebinje: University of Montenegro, Faculty of Mechanical Engineering, 7-9 Septembar, 2017, pp. 291-296, ISBN 978-9940-527-53-2

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Sarjanović D., Kovač P., Savković B., Ješić D., Šooš Lj.: Performance of using waste hot water as an innovative energy sources, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Faculty of Mechanical Engineering STU in Bratislava, 20-22 Septembar, 2017, pp. 69-69, ISBN 978-80-227-4731-8

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Kovalevskyy S., Kovalevska O., Dašić P., Ješić D., Kovač P.: Engineering Consulting Technology in Production Engineering Intelligent Mobile Machines, International Journal of Industrial Engineering and

Management, 2017, Vol. 8, No 4, pp. 203-208, ISSN 2217-2661, UDK: 621.7/9:[658.5:004.896

2. Pokusova M., Murgašova M., Adamekova Z., Kovač P.: Environmental characteristics of the reclaimed foundry self-hardening mould sands, Waste Forum, 2017, Vol. 10, No 5, pp. 478-484, ISSN 1804-0195
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#### Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Batinić B., Rodić D., Gostimirović M., Kulundžić N., Laković N.: MONITORING OF THE DISCHARGE CURRENT BY HALL-EFFECT SENSOR, Journal of Production Engineering, 2017, Vol. 20, No 1, pp. 39-42, ISSN 1821-4932
2. Boca M., Kovač P., Savković B.: MODEL APPROCH OF AUTOMATION OF BOTTLING AND PACKAGING FOR INDUSTRIAL PROCESS OF BOTTLES, Journal of Production Engineering, 2017, Vol. 20, No 2, pp. 69-72, ISSN 1821-4932, UDK: 621
3. Ješić D., Kovač P., Sarjanović D.: ABRAZIONE I ATHEZIONE TROŠENJE PERLITNOG NODULARNOG LIVA, Traktori i pogonske mašine, 2017, Vol. 22, No 3/4, pp. 93-100, ISSN 0354-9496, UDK: 631.312.021.3:621.791.3.004.67
4. Kovač P., Rodić D., Gostimirović M., Savković B., Ješić D.: ADAPTIVE NEURO-FUZZY MODELING OF THERMAL VOLTAGE PARAMETERS FOR TOOL LIFE ASSESSMENT IN FACE MILLING, Journal of Production Engineering, 2017, Vol. 20, No 1, pp. 16-20, ISSN 1821-4932, UDK: 621
5. Kovač P., Savković B., Gostimirović M., Ješić D., Mankova I.: Modeling of the machining surface roughness parameters for steel difficult to machining, Analele Universității „Eftimie Murgu”, 2017, Vol. 24, No 1, pp. 175-183, ISSN 1453-7397
6. Pejić V., Sekulić M., Jokanovic S., Kovač P., Gostimirović M.: MODELING OF CUTTING FORCES IN BALL-END MILLING PROCESS OF HARD (HARDENED) STEEL BY USING RESPONSE SURFACE METHODOLOGY, Journal of Production Engineering, 2017, Vol. 20, No 2, pp. 17-20, ISSN 1821-4932, UDK: 621
7. Tarić M., Kovač P., Nedić B., Rodić D., Ješić D.: TOOL WEAR, CUTTING TEMPERATURE AND CUTTING FORCE DURING TURNING HARD STEEL, Journal of Production Engineering, 2017, Vol. 20, No 2, pp. 13-16, ISSN 1821-4932, UDK: 621
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#### Spisak rezultata M53 - Rad u naučnom časopisu

1. Kirin S., Kovač P., Savković B., Mirjanić S., Šooš Lj.: THE ECONOMIC SUSTAINABILITY OF A MODEL THAT BALANCES ECOLOGICAL AND POWER SUPPLY NEEDS, MM (Modern Machinery) Science Journal, 2017, Vol. 10, No 1, pp. 1692-1695, ISSN 1803-1269, UDK: DOI: 10.17973/MMSJ.2017\_02\_2016143
2. Pavkov B., Gostimirović M.: Razvoj aplikacije baze podataka za modeliranje obradnih procesa, Zbornik radova Fakulteta tehničkih nauka, 2017, Vol. 32, No 1, pp. 13-16, ISSN 0350-428X, UDK: 621.7/9
3. Savković B., Kovač P., Mankova I., Gostimirović M., Rokosz K., Rodić D.: Surface roughness modeling of semi solid aluminum milling by fuzzy logic, Journal of Advances in Technology and Engineering Research, 2017, Vol. 3, No 2, pp. 44-56, ISSN 2414-4592, UDK: DOI:10.20474/jater-3.2.2

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

1. Bazina T., Jurković Z., Sekulić M.: OPTIMIZACIJA PROCESA TOKARENJA, 1. Konferencija sa međunarodnim učešćem "Primena novih tehnologija i ideja u školskom inženjerskom obrazovanju", Požega (Užička), 15-16 Maj, 2017, pp. 113-120, ISBN 978-86-915487-1-1
2. Golubović D., Ješić D., Kovač P., Savković B., Sarjanović D.: Pobljšanje energetske efikasnosti male hidroelektrane, 6. Savetovanje o energetici u BIH sa međunarodnim učešćem, Neum: CETEOR Sarajevo, 28-29 Septembar, 2017, pp. 37-43, ISBN 977-22-330-1200-6
3. Ješić D., Kovač P., Savković B., Dašić P., Sarjanović D.: The quality of products influences quality of life, 7. International Conference "Economics and Management - Based on New Technologies" (EMoNT), Vrnjačka Banja: SaTCIP (Scientific and Technical Center for Intellectual Property), 15-18 Jun, 2017, pp. 217-224, ISBN

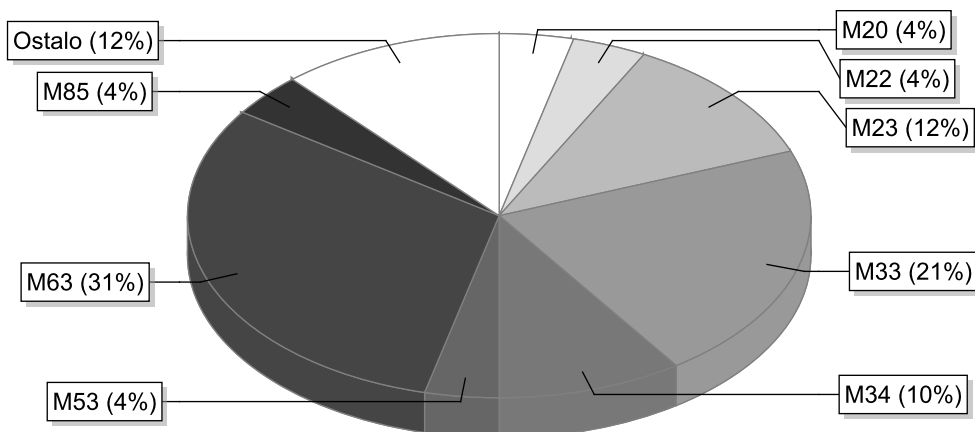
4. Kovač P., Ješić D., Savković B., Dašić P., Sarjanović D.: Ispitivanje visokootpornih prevlaka na mašinskim delovima na abrazivno habanje, 15. International Conference "Traffic, Ecological and Economy Problems and Perspectives of Solving of mentioned in the countries of Western Balkan with an Overview on Bosnia and Herzegovina", Travnik: Internacionalni univerzitet Travnik u Travniku, 19-20 Maj, 2017, pp. 617-624, ISBN ISSN: 2232-8807
5. Kovač P., Rodić D., Savković B., Ješić D., Golubović D.: Modeliranje otpora rezanja pri glodanju pomoću fazi logike, 16. Infoteh-Jahorina, Jahorina: Istočno Sarajevo: Elektrotehnički fakultet, 22-24 Mart, 2017, pp. 416-419, ISBN 978-99976-710-0-4
6. Sarjanović D., Ješić D., Kovač P., Novaković S., Savković B., Đorđević D.: Monitoring tribomehaničkog sistema preko sredstva za podmazivanje - sa osvrtom na PQ index, 16. International Conference "Economic / Legal / Communication aspects of the Western Balkans countries with special emphasis on Bosnia and Herzegovina in the Process of integration to the European Union", Travnik: Internacionalni univerzitet Travnik u Travniku, 15-16 Decembar, 2017, pp. 598-608, ISBN ISSN: 2232-8807
7. Sekulić M., Pejic V., Kovač P., Gostimirović M., Savković B.: MODELOVANJE I OPTIMIZACIJA PROCESA OBRADJE REZANJEM, 1. Konferencija sa međunarodnim učešćem "Primena novih tehnologija i ideja u školskom inženjerskom obrazovanju", Požega (Užička): TEHNIČKA ŠKOLA, Vuka Karadžića 6, 31210 POŽEGA, SRBIJA, 15-16 Maj, 2017, pp. 129-138, ISBN 978-86-915487-1-1

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

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

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	2
Rad u međunarodnom časopisu	M23	6
Uređivanje međunarodnog naučnog časopisa	M28	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	11
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	5
Monografska bibliografska publikacija	M43	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	16
Odbranjena doktorska disertacija	M71	1
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	2



## PRODUKCIJA - REZULTATI

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

1. Agarski B., Nikolić V., Kamberović Ž., Anđić Z., Kosec B., Budak I.: Comparative life cycle assessment of Ni-based catalyst synthesis processes. DOI: 10.1016/j.jclepro.2017.06.012, Journal of Cleaner Production, 2017, ISSN 0959-6526
2. Milanović B., Agarski B., Vukelić Đ., Budak I., Kiš (Kiss) F.: Comparative exergy-based life cycle assessment of conventional and hybrid base transmitter stations, Journal of Cleaner Production, 2017, Vol. 167, pp. 610-618, ISSN 0959-6526

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

1. Matin I., Hadžistević M., Vukelić Đ., Potran M., Brajljić T.: Development of an expert system for the simulation model for casting metal substructure of a metal-ceramic crown design, Computer Methods and Programs in Biomedicine, 2017, Vol. 146, pp. 27-35, ISSN 0169-2607

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

1. Vukelić Đ., Budak I., Tadić B., Šimunović G., Kljajić V., Agarski B.: Multi-Criteria Decision-Making and Life Cycle Assessment Model for Optimal Product Selection: Case Study of Knee Support, International Journal of Environmental Science and Technology, 2017, Vol. 14, No 2, pp. 353-364, ISSN 1735-1472
2. Vukelić Đ., Tadić B., Džunić D., Kočović V., Brzaković Lj., Živković M., Šimunović G.: Analysis of ball-burnishing impact on barrier properties of wood workpieces, International Journal of Advanced Manufacturing Technology, 2017, Vol. 92, No 1, pp. 129-138, ISSN 0268-3768

### Spisak rezultata M23 - Rad u međunarodnom časopisu

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2. Lazarević M., Vukelić Đ., Stankovski S., Sremčev N., Ostojić G.: Enhancing Student Competence through Novel Student Enterprise Concept, International Journal of Engineering Education, 2017, Vol. 33, No 6(A), pp. 1824-1833, ISSN 0949-149X
3. Nemedi I., Sekulić M., Radlovački V., Hodolić J., Hadžistević M., Takacs M.: A Method for Determining Roundness and Actual Form of Circular Workpiece Cross Sections, Acta Polytechnica Hungarica, Journal of Applied Sciences, 2017, Vol. 14, No 6, pp. 169-184, ISSN 1785-8860
4. Stepanov J., Ubavin D., Prokić D., Budak I., Stevanović Čarapina H., Stanisavljević N.: Comparison Of Municipal Waste Management Systems Using LCA: South Backa Waste Management Region – Case Study, Environment Protection Engineering, 2017, ISSN 0324-8828, UDK: EPE-00742-2017-03
5. Štrbac B., Radlovački V., Spasić Jokić V., Delić M., Hadžistević M.: The Difference Between GUM and ISO/TC 15530-3 Method to Evaluate the Measurement Uncertainty of Flatness by a CMM, MAPAN - Journal of Metrology Society of India, 2017, Vol. 32, No 4, pp. 251-257, ISSN 0970-3950, UDK: DOI 10.1007/s12647-017-0227-3
6. Trifković B., Budak I., Vukelić Đ., Puškar T., Jevremović D., Todorović A., Todorović A., Poštić S.: Analysis of accuracy and precision of optical 3D digitisation devices in dental computer-aided-design and computer-aided- manufacturing systems, Maejo International Journal of Science and Technology, 2017, Vol. 11, No 1, pp. 45-57, ISSN 1905-7873

### Spisak rezultata M28 - Uređivanje međunarodnog naučnog časopisa

1. Vukelić Đ.: International Editorial Council, Tehnicki vjesnik - Technical Gazette, 2017, Vol. 24, ISSN 1330-3651

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1. Agarski B., Budak I., Šimunović G., Kosec B., Hadžistević M., Vukelić Đ.: Development of innovative methodology for ecodesign of products and processes for the region of Vojvodina, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: Faculty of Mechanical Engineering, University of Banja Luka, 26-27 Maj, 2017, pp. 821-826, ISBN 978-99938-39-72-9
2. Agarski B., Vukelić Đ., Milošević M., Kosec B., Budak I.: Multi-criteria decision making and life cycle management model for optimal transport selection, 2. International Conference on Quality of Life, Kragujevac: Faculty of Engineering in Kragujevac, 8-10 Jun, 2017, pp. 139-144, ISBN 978 - 86 - 6335 - 04
3. Katić M., Šokac M., Budak I.: Application of computed tomography on multi-material objects, 17. International Conference on Materials: corrosion, heat treatment, materials testing and tribology - MTECH,

Zadar: Hrvatsko društvo za materijale i tribologiju, 4-7 Oktobar, 2017, pp. 217-222, ISBN 2584-4334

4. Klobučar R., Štrbac B., Hadžistević M., Ačko B.: Metrological set-up for Calibrating 1D Line Scales with Sub-Micrometre Precision, 28. DAAAM International Symposium on Intelligent Manufacturing and Automation, Zadar: DAAAM International, 8-11 Novembar, 2017, pp. 537-544, ISBN 978-3-902734-11-2
5. Santoši Ž., Budak I., Šokac M., Vukelić Đ.: Influence of surface quality on 3D digitization results obtained by close-range photogrammetry, 15. International Conference on Tribology - SERBIATRIB, Kragujevac: University of Kragujevac, Faculty of Engineering, 17-19 Maj, 2017, pp. 566-570, ISBN 978-86-6335-041-0
6. Santoši Ž., Šokac M., Puškar T., Budak I.: Comparative Analysis of Full Frame and APS-C Camera Sensors on 3D Digitization Results, 15. IEEE East-West Design & Test Symposium - EWDTS, Novi Sad: The Institute of Electrical and Electronics Engineers, 29-2 Septembar, 2017, pp. 323-327, ISBN 978-1-5386-3298-7
7. Soković M., Janjić G., Budak I., Tanasić Z., Agarski B., Ilić Mićunović M., Kosec G., Kramar D., Kosec B.: Environmental labelling with type I eco labels, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: Faculty of Mechanical Engineering, University of Banja Luka, 26-27 Maj, 2017, pp. 797-802, ISBN 978-99938-39-72-9
8. Stojaković V., Budak I., Obradović R., Korolija Crkvenjakov D., Santoši Ž.: Parametric modeling applied to the virtual reconstruction of the damaged sculpture of St John Nepomuk in Petrovaradin, 35. eCAADe - Educational and research in Computer Aided Architectural Design in Europe, Rim: eCAADe and Sapienza University of Rome., 20-22 Septembar, 2017, pp. 389-399, ISBN 978-94-91207-13-6
9. Šokac M., Budak I., Santoši Ž., Vukelić Đ., Katić M.: Preliminary investigation of newly proposed method for enhancement of industrial CT images, 17. International Symposium for Production Research - ISPR, Beč: Vienna University of Technology, 13-15 Septembar, 2017
10. Šokac M., Santoši Ž., Budak I., Car Z., Vukelić Đ.: Combination of contact and optical 3D digitizing methods for their application in reverse engineering, 8. International Conference on Innovative Technologies IN-TECH, Ljubljana: Faculty of Mechanical Engineering, 11-13 Septembar, 2017, pp. 65-68, ISBN 0184-9069
11. Šokac M., Santoši Ž., Budak I., Vukelić Đ., Puškar T.: Improvement and development of modern diagnostic method in dentistry using advanced 3D digitizing systems, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-933-5

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1. Agarski B., Budak I., Šimunović G., Kosec B., Vukelić Đ.: Evaluation of eco-design alternatives through integrating life cycle impact assessment and multi-criteria decision aiding, 85. Meeting of European Working Group on MCDA, Padova: European Working Group on MCDA, 20-22 April, 2017, pp. 7-7
2. Agarski B., Vukelić Đ., Šimunović K., Budak I.: Assessment of environmental loading of urban area by using fuzzy multi-criteria decision making, 5. International Scientific Conference "Marketing Management, Trade, Financial and Social Aspects of Business", Košice: Vydavateľstvo EKONÓM, Bratislava, 18-20 Maj, 2017, pp. 17-17, ISBN 978-80-225-4384-2
3. Đurović Koprivica D., Jeremić-Knežević M., Milekić (rođ. Jefić) B., Pivaš B., Laban J., Budak I., Puškar T.: Technology of accuracy measurement of imprinted surfaces obtained by conventional impression methods in prosthodontics, 1. International Scientific Conference Dentistry Principles of Good Clinical Practice in Restorative and Aesthetic Dentistry-Possibilities, Problems and Solutions, Novi Sad, 8-9 Jun, 2017, ISBN 978-86-80894-00-3
4. Lanc Z., Zeljković M., Živković A., Štrbac B., Hadžistević M.: New Method for the Assessment of the Risk of Burning by Means of Infrared Thermography, 8. International Conference on Manufacturing Science and Education - MSE, Sibiu, 7-9 Jun, 2017, ISBN 2559-2963
5. Vicko K., Puškar T., Santoši Ž., Budak I., Eggbeer D.: 3D Technology in Monoblock Manufacturing, 1. International Scientific Conference Dentistry Principles of Good Clinical Practice in Restorative and Aesthetic Dentistry-Possibilities, Problems and Solutions, Novi Sad: Dental Clinic of Vojvodina, 8-9 Jun, 2017, pp. 243-243, ISBN 978-86-80894-00-3

Spisak rezultata M43 - Monografska bibliografska publikacija

1. Doroslovački R., Vilotić D., Katić V., Kovačević I., Šešlija D., Kolaković S., Budak I., Konjović Z.: Doktorske akademske studije na Fakultetu tehničkih nauka u Novom Sadu – nekad i sad, Novi Sad, FTN izdavaštvo, Edicija „Tehničke nauke – monografije“, 2017, ISBN 978-86-6022-009-9

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja



1. Šokac M., Budak I., Mirković S., Santoši Ž., Movrin D., Puškar T.: The role of advanced 3D technologies and additive manufacturing in designing and manufacturing of customized bone grafts, *Journal for Technology of Plasticity*, 2017, Vol. 42, No 2, pp. 33-45, ISSN 0354-3870, UDK: 621.7

Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Šokac M., Budak I., Santoši Ž., Balaž B., Milutinović M.: Redesign of robotic arm by the application of reverse engineering and rapid prototyping technologies, *Machine Design*, 2017, Vol. 9, No 3, pp. 93-98, ISSN 1821-1259

Spisak rezultata M53 - Rad u naučnom časopisu

1. Đorđić D., Đurić S., Hadžistević M.: Analysis of transformer, motor and other types of oil flow in electric power distribution system in developing countries, *Annals of Faculty Engineering Hunedoara - International Journal of Engineering*, 2017, Vol. 15, No 1, pp. 53-58, ISSN 1584-2665
2. Đorđić D., Đurić S., Hadžistević M.: Transformer oil and potential risks for environment, *Acta Technica Corviniensis*, 2017, Vol. 10, No 1, pp. 101-105, ISSN 2067-3809

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

1. Agarski B., Budak I., Ilić Mićunović M., Kosec B., Vukelić Đ.: Ocenjivanje životnog ciklusa zbornika radova ETIKUM konferencije, 11. International Scientific Conference ETIKUM, Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 205-208, ISBN 978-86-6022-00-68
2. Budak I., Šokac M., Santoši Ž.: Primena reverzibilnog inženjerskog modelovanja kod dizajniranja proizvoda, 1. Konferencija sa međunarodnim učešćem "Primena novih tehnologija i ideja u školskom inženjerskom obrazovanju", Požega (Užička): Tehnička škola, 15-16 Maj, 2017, pp. 109-112, ISBN 978-86-915487-1-1
3. Đurović Koprivica D., Budak I., Puškar T., Jeremić-Knežević M., Milekić (rođ. Jević) B., Pivaš B., Marković D.: Primena kompjutera i računarom vođenih sistema u analizi okluzalnih kontakata (T-SCAN SISTEM), 11. Naučna konferencija sa međunarodnim učešćem (ETIKUM), Novi Sad, 6-8 Decembar, 2017
4. Ilić Mićunović M., Agarski B., Kosec B., Nagode A., Miroslavljević Z.: Personalna izloženost pešaka zagađivačima vazduha na prometnoj saobraćajnici Grada Novog Sada, 11. International Scientific Conference ETIKUM, Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 209-212, ISBN 978-86-6022-00-68
5. Laban Terzija J., Milekić (rođ. Jević) B., Puškar T., Mirković S., Pivaš B., Santoši Ž., Šokac M.: Rešavanje problema retencije i stabilizacije gornje totalne proteze pomoću implanata, 11. International Scientific Conference ETIKUM, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 6-8 Decembar, 2017, pp. 145-148, ISBN 978-86-6022-00-68
6. Lanc Z., Zeljković M., Živković A., Štrbac B., Hadžistević M.: Ispitivanje uticaja površinske hrapavosti i temperature na koeficijent emisivnosti mesinga, 11. Naučna konferencija sa međunarodnim učešćem (ETIKUM), Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 53-56, ISBN 978-86-6022-00-68
7. Lanc Z., Zeljković M., Živković A., Štrbac B., Hadžistević M.: Termovizijska metoda procene rizika od termičkih opekotina, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 368-376, ISBN 978-86-919221-2-2
8. Lukić D., Milošević M., Salak S., Štrbac B., Biševac S., Dramićanin M.: Poređenje tačnosti obrade i iskorišćenosti materijala pri sečenju čeličnih ploča različitim obradnim procesima, 11. Naučna konferencija sa međunarodnim učešćem (ETIKUM), Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 81-84, ISBN 978-86-6022-00-68
9. Matin I., Vukelić Đ., Hadžistević M., Štrbac B., Potran M.: Unapređenje kvaliteta izrade metalne substrukture za metalokeramičku krunicu korišćenjem SOFTPREL-a, 11. International Scientific Conference ETIKUM, Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 149-152, ISBN 978-86-6022-00-68
10. Savić D., Mučenski V., Hadžistević M.: Zaštita na radu pri izvođenju grubih građevinskih radova - tesarski radovi, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 95-101, ISBN 978-86-919221-2-2
11. Šimunović G., Svalina I., Vukelić Đ., Šimunović K., Šarić T., Kljajin M., Lujčić R., Havrišan S.: Procenjivanje hrapavosti obrađene površine na temelju značajki digitalne fotografije, 11. International Scientific Conference ETIKUM, Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 101-104, ISBN 978-86-6022-00-68
12. Šokac M., Budak I., Santoši Ž., Spasić A., Jakovljević Ž.: Uloga statističkih evaluatora i njihova primena kod analize tačnosti segmentiranih medicinskih snimaka, 11. International Scientific Conference ETIKUM, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 6-8 Decembar, 2017, pp. 153-156, ISBN 978-

86-6022-00-68

13. Štrbac B., Jotić G., Hadžistević M.: Analiza greške ravnosti na različitim koordinatnim mernim sistemima, 11. Naučna konferencija sa međunarodnim učešćem (ETIKUM), Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 109-112, ISBN 978-86-6022-00-68
14. Štrbac B., Klobučar R., Ačko B., Hadžistević M.: The Effect of Sampling Strategy on the Equation of Reference Plane Measured on a CMM, 10. Research/Expert Conference with International Participations - QUALITY, Neum: Faculty of Mechanical Engineering in Zenica, 17-20 Maj, 2017, pp. 75-80, ISBN 1512-9268
15. Vicko K., Puškar T., Santoši Ž., Eggbeer D.: Primena 3D tehnologija kod izrade dentalnih mobilnih aparata, 11. International Scientific Conference ETIKUM, Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 141-144, ISBN 978-86-6022-00-68
16. Zoraja B., Ubavin D., Hadžistević M., Živančev M.: Razvoj metodologije za aproksimaciju količina azbestnog otpada u Srbiji, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 167-174, ISBN 978-86-919221-2-2

Spisak rezultata M71 - Odbranjena doktorska disertacija

1. Štrbac B.: Procena merne nesigurnosti pri merenju ravnosti na koordinatnoj mernoj mašini primenom Monte Karlo simulacije, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2017, str. 1-114

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

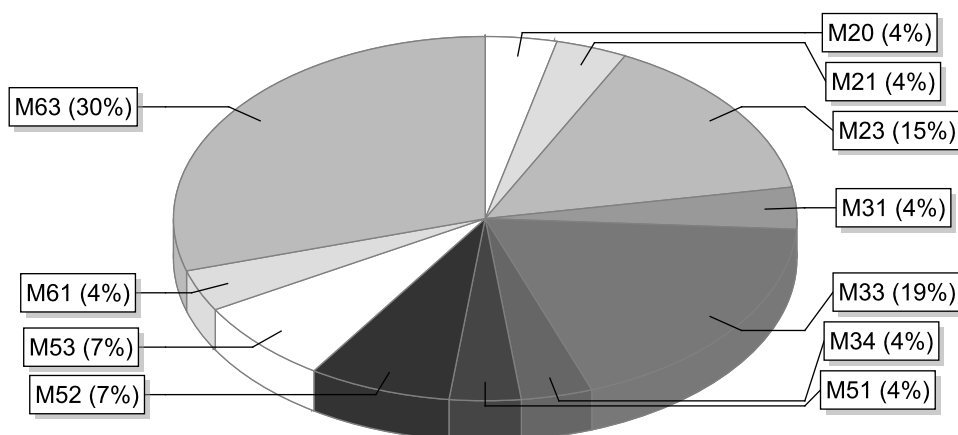
1. Matin I., Vukelić Đ., Hadžistević M.: Softver za precizno livenje metalne substrukture za metalokeramičku krunicu (SOFTPREL), 2017
2. Vukelić Đ., Živković M., Miljojković J., Kočović V., Budak I.: Uređaj za ispitivanje apsorpcije vode drvenih radnih predmeta, 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

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

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u međunarodnom časopisu	M23	4
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	2
Rad u naučnom časopisu	M53	2
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	8



## PRODUKCIJA - REZULTATI

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

1. Antić A., Popović B., Krstanović L., Obradović R., Milošević M.: Novel Texture-Based Descriptors for Tool Wear Condition Monitoring, Mechanical Systems and Signal Processing, 2017, Vol. 98, pp. 1-15, ISSN 0888-3270

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

1. Milošević M., Lukić D., Antić A., Lalić B., Ficko M., Šimunović G.: e-CAPP: A distributed collaborative system for internet-based process planning, Journal of Manufacturing Systems, 2017, Vol. 42, pp. 210-223, ISSN 0278-6125

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Blanuša V., Zeljković M., Milisavljević B., Savić B.: Mathematical modeling of thermal behaviour of cylindrical roller bearing for towed railway vehicles, Tehnicki vjesnik - Technical Gazette, 2017, Vol. 24, No 3, pp. 211-217, ISSN 1330-3651
2. Bojić Ž., Radošević M., Ćosić I., Morača S., Avramović N., Antić A.: The analysis of the impact on the safety of traffic participants and causing the accidents of working machines - tractors, Tehnicki vjesnik - Technical Gazette, 2017, Vol. 24, No 5, pp. 1591-1596, ISSN 1330-3651
3. Lukić D., Milošević M., Antić A., Borojević S., Ficko M.: Multi-criteria selection of manufacturing processes in the conceptual process planning, Advances in Production Engineering and Management, 2017, Vol. 12, No 2, pp. 151-162, ISSN 1854-6250
4. Milošević M., Lukić D., Borojević S., Šimunović G., Antić A.: A model of collaborative process planning system (e-CAPP), Tehnicki vjesnik - Technical Gazette, 2017, Vol. 24, No 1, pp. 97-103, ISSN 1330-3651, UDK: 62(05)=163.42=111

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

1. Lukić D., Milošević M., Vukman J., Đurđev M., Borojević S., Antić A.: Analyzing possibilities of improving machining process planning and optimization by applying feature technologies and simulation technique, 7. International Conference Industrial Engineering and Environmental Protection - IIZS, Zrenjanin: Technical faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia, 12-13 Oktobar, 2017, pp. 1-9, ISBN 978-86-7672-303-4

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

1. Agarski B., Vukelić Đ., Milošević M., Kosce B., Budak I.: Multi-criteria decision making and life cycle management model for optimal transport selection, 2. International Conference on Quality of Life, Kragujevac: Faculty of Engineering in Kragujevac, 8-10 Jun, 2017, pp. 139-144, ISBN 978 - 86 - 6335 - 04
2. Gostimirović M., Kovač P., Sekulić M., Milošević M., Lukić D.: INVERSE THERMAL MODELING OF THE ELECTRICAL DISCHARGE MACHINING, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: University of Banja Luka, Faculty of Mechanical Engineering, 26-27 Maj, 2017, pp. 37-42, ISBN 978-99938-39-73-6
3. Lukić D., Milošević M., Đurđev M., Vukman J., Antić A.: Optimization of operation sequencing using precedence constraints and simulation technique, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: Faculty of Mechanical Engineering, University of Banja Luka, 26-27 Maj, 2017, pp. 57-64, ISBN 978-99938-39-73-6
4. Živković A., Zeljković M., Knežev M., Mijusković m.: Analysis of static behaviour of the bearing assembly for agricultural mechanization, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: Mašinski Fakultet, 26-27 Maj, 2017, pp. 101-108, ISBN 978-99938-39-73-8.
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### Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Lanc Z., Zeljković M., Živković A., Štrbac B., Hadžistević M.: New Method for the Assessment of the Risk of Burning by Means of Infrared Thermography, 8. International Conference on Manufacturing Science and Education - MSE, Sibiu, 7-9 Jun, 2017, ISBN 2559-2963

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

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Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Knežev M., Živković A., Zeljković M., Lukić D., Mlađenović C.: Internal geometry optimization of angular contact ball bearings, Machine Design, 2017, Vol. 9, No 4, pp. 139-144, ISSN 1821-1259
2. Lukić D., Milošević M., Erić M., Đurđev M., Vukman J., Antić A.: Improving manufacturing process planning through the optimization of operation sequencing, Machine Design, 2017, Vol. 9, No 4, pp. 123-132, ISSN 1821-1259

Spisak rezultata M53 - Rad u naučnom časopisu

1. Lukić D., Milošević M., Vukman J., Đurđev M., Antić A.: Applying precedence relationships and CAD/CAM simulation in time-based optimization of process planning, Applied Engineering Letters, 2017, Vol. 2, No 4, pp. 130-138, ISSN 2466-4677
2. Živković A., Zeljković M., Knežev M.: Thermal model of high speed main spindle, Acta Technica Corviniensis, 2017, Vol. 10, No 2, pp. 103-106, ISSN 2067-3809

Spisak rezultata M61 - Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini

1. Tabaković S., Zeljković M., Živanović S.: SAVREMENE MAŠINE ALATKE – TRENDOVI U EDUKACIJI, 1. Konferencija sa međunarodnim učešćem "Primena novih tehnologija i ideja u školskom inženjerskom obrazovanju", Požega (Užička): Tehnička škola Požega, 15-16 Maj, 2017, pp. 9-19, ISBN 978-86-915487-1-1

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

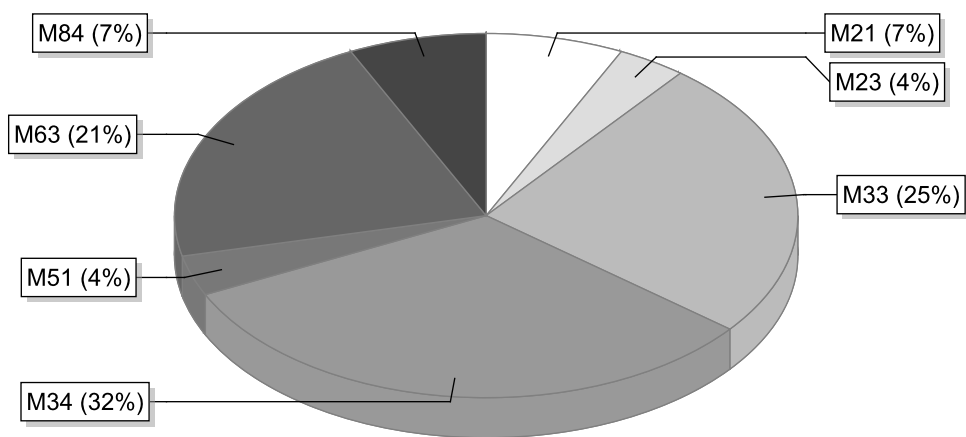
1. Blanuša V., Zeljković M., Ćurčić R., Janjić N., Milisavljević B.: Анализа технолошких карактеристика ласерског постројења NUKON ECO FIBER 1530 – 2000W , 3. Међународно научно саветовање: "Управљање знанјем и информатика", Копачић: Висока техничка школа струковних студија-Нови Сад, 13-14 Јануар, 2017, pp. 47-53, ISBN 978-86-6211-108-1
2. Blanuša V., Zeljković M., Milisavljević B., Janjić N.: Анализа статичког понашања осовинског склопа точка вучених возила на железници применом AUTODESK INVENTOR-A , 3. Међународно научно саветовање: "Управљање знанјем и информатика", Копачић: Висока техничка школа струковних студија-Нови Сад, 13-14 Јануар, 2017, pp. 54-60, ISBN 978-86-6211-108-1
3. Blanuša V., Zeljković M., Savić B.: Утицај тежине терета на радијалне деформације осовинског склопа вученог возила на железници, 16. Инфотех-Јахорина, Јахорина: Електротехнички факултет-Источно Сарајево, 22-24 Март, 2017, pp. 466-469
4. Lanc Z., Zeljković M., Živković A., Štrbac B., Hadžistević M.: Испитивање утицаја површинске хрупавости и температуре на коефицијент емисивности месинга, 11. Научна конференција са међународним учеšћем (ETIKUM), Нови Сад: Факултет техничких наука, 6-8 Децембар, 2017, pp. 53-56, ISBN 978-86-6022-00-68
5. Lanc Z., Zeljković M., Živković A., Štrbac B., Hadžistević M.: Термовизијска метода процене ризика од термичких опекотина, 14. Заштита на раду – Пут успешног пословања, Дивчибаре: Савез заштите на раду Србије, 4-7 Октобар, 2017, pp. 368-376, ISBN 978-86-919221-2-2
6. Lukić D., Milošević M., Salak S., Štrbac B., Biševac S., Dramićanin M.: Поређење тачности обраде и искоришћености материјала при сечењу челичних плоча различитим обрадним процесима, 11. Научна конференција са међународним учеšћем (ETIKUM), Нови Сад: Факултет техничких наука, 6-8 Децембар, 2017, pp. 81-84, ISBN 978-86-6022-00-68
7. Sekulić J., Grujić J., Tabaković S., Knežev M., Živković A., Zeljković M.: Рачунарско моделовање туморске ендопротезе зглоба лакта, 16. Инфотех-Јахорина, Јахорина, 22-24 Март, 2017, pp. 458-461, ISBN 978-99976-710-0-4
8. Vukman J., Lukić D., Milošević M., Borojević S., Đurđev M., Antić A.: Технолошки процеси обраде танкоидних делова од легуре алуминијума, 11. ETIKUM, Нови Сад: Факултет техничких наука, Департамент за производну инжењеринг, 6-8 Децембар, 2017, pp. 103-106, ISBN 978-86-6022-00-68

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za materijale i tehnologije spajanja

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	7
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	9
Rad u vodećem časopisu nacionalnog značaja	M51	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	6
Bitno poboljšan postojeći proizvod ili tehnologija	M84	2



## PRODUKCIJA - REZULTATI

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

1. Grilli M., Bellezze T., Gamsjaeger E., Rinaldi A., Novak P., Baloš S., Piticescu R., Ruello M.: Solutions for Critical Raw Materials under Extreme Conditions: a Review, *Materials*, 2017, Vol. 10, No 3, ISSN 1996-1944
2. Milutinović M., Baloš S., Plančak M., Movrin D.: Comparison of Some Mechanical Properties and Micro-Topography of A Component With Non-Axisymmetric Geometry Manufactured by Cold Orbital and Hot Forging, *Journal of Materials Processing Technology*, 2017, Vol. 249, pp. 179-192, ISSN 0924-0136

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Perovic M., Baloš S., Kozak D., Bajić D., Vuherer T.: Influence of tool kinematic factors of friction stir welding on the characteristics of welded joints of forged plates mate of EN AW 7049A aluminium alloy, *Tehnicki vjesnik - Technical Gazette*, 2017, Vol. 24, No 3, pp. 723-728, ISSN 1330-3651

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

1. Baloš S., Radisavljevic I., Rajnović D., Janjatović P., Dramićanin M., Eric-Cekic O., Šiđanin (Sidjanin) L.: SITRAM Effect in Ballistic Testing of Perforated Plates Made of ADI Materials, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
2. Baloš S., Radisavljevic I., Rajnović D., Janjatović P., Dramićanin M., Erić Cekić O., Šiđanin (Sidjanin) L., Zabunov I.: Ballistic Properties Of Perforated Plates Made Of Austempered Ductile Iron, 18. International Scientific Conference - TRANSFER, Trenčianske Teplice, 23-24 Novembar, 2017, pp. 1-7
3. Baloš S., Rajnović D., Dramićanin M., Janjatović P., Labus Zlatanović D., Eric-Cekic O., Šiđanin (Sidjanin) L.: Satram Effect During Wear of ADI Materials Against SiC, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5
4. Baloš S., Šiđanin (Sidjanin) L., Dramićanin M., Labus Zlatanović D., Rajnović D., Janjatović P., Zabunov I.: Cellulose Electrodes Enhanced With TiO<sub>2</sub> Nanoparticles, 18. International Scientific Conference - TRANSFER, Trenčianske Teplice, 23-24 Novembar, 2017, pp. 1-7, ISBN 978-80-8075-787-8
5. Labus Zlatanović D., Baloš S., Dramićanin M., Janjatović P., Šiđanin (Sidjanin) L.: Optimization of Tool Geometry and Friction Stir Processing Parameters in AA5754 H111 Alloy, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5
6. Radošević M., Baloš S., Ružić D.: Metallographic test and strength of the material of chans snow, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka, 26-27 Maj, 2017
7. Rađenović D., Kerkez Đ., Tomašević Pilipović D., Baloš S., Došić A., Smiljanić S., Krčmar D.: Long-term performance of stabilised/solidified polluted sediment in terms of metal leachability and matrix characterization, DOI: 10.7251/EEMEN1501970R, 5. International Congress Engineering, Environment and Materials in Processing Industry, Jahorina: Faculty of Technology, Republic of Srpska, BiH, 15-17 Mart, 2017, pp. 970-981, ISBN 978-99955-81-21-3

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

1. Baloš S., Dramićanin M., Janjatović P., Labus Zlatanović D., Šiđanin (Sidjanin) L.: Friction Stir Welding of Al-Mg Alloys as a Replacement of Mg and Si consumables in GMAW and GTAW welding , 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017
2. Baloš S., Janjatović P., Labus Zlatanović D., Dramićanin M., Rajnović D., Šiđanin (Sidjanin) L.: Effect of Tunneling Defect in Friction Stir Welding of Al-Mg Alloys, 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017
3. Baloš S., Labus Zlatanović D., Janjatović P., Dramićanin M., Rajnović D., Šiđanin (Sidjanin) L.: Work Hardening and Wear Resistance Increase by Friction Stir Processing for Partial Magnesium Replacement in Aluminium Alloys, 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017
4. Baloš S., Radisavljević I., Janjatović P., Rajnović D., Šiđanin (Sidjanin) L., Dramićanin M., Erić Cekić O.: Austempered Ductile Iron Perforated Plate with an Increased Ballistic Protection , 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017
5. Baloš S., Radisavljević I., Janjatović P., Rajnović D., Šiđanin (Sidjanin) L., Dramićanin M., Erić Cekić O.: Austempered Ductile Iron Perforated Plate with an Increased Mass Effectiveness, 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017
6. Baloš S., Rajnović D., Janjatović P., Dramićanin M., Erić Cekić O., Radisavljević I., Šiđanin (Sidjanin) L.:

Austempered Vermicular Iron Perforated Plates, 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017

7. Rajnović D., Baloš S., Dramićanin M., Janjatović P., Labus Zlatanović D., Šiđanin (Sidjanin) L., Erić Cekić O.: Cavitation behavior of unalloyed ADI material used as replacement components, 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017
8. Rajnović D., Baloš S., Dramićanin M., Janjatović P., Labus Zlatanović D., Šiđanin (Sidjanin) L., Erić Cekić O.: Possibility of ADI material use as replacement of high Cr carbide irons, 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017
9. Rajnović D., Mačaš M., Janjatović P., Dramićanin M., Labus Zlatanović D., Baloš S., Šiđanin (Sidjanin) L.: Depletion of CRM alloying elements from the surface layer during hot isostatic pressing of superalloy IN100, 1. EMRS Fall Meeting, Varšava, 18-21 Septembar, 2017

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Baloš S., Janjatović P., Dramićanin M., Labus Zlatanović D., Šiđanin (Sidjanin) L., Tomić S.: Improvement of Hardfacing Process of Cobalt Based Alloys Using Nanoparticles, Zavarivanje i zavarene konstrukcije, 2017, Vol. 62, No 4, pp. 155-160, ISSN 0354-7965, UDK: 621.791

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

1. Lukić D., Milošević M., Salak S., Štrbac B., Biševac S., Dramićanin M.: Poređenje tačnosti obrade i iskorišćenosti materijala pri sečenju čeličnih ploča različitim obradnim procesima, 11. Naučna konferencija sa međunarodnim učešćem (ETIKUM), Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 81-84, ISBN 978-86-6022-00-68
2. Pećanac M., Dramićanin M., Janjatović P., Labus Zlatanović D., Rajnović D., Šiđanin (Sidjanin) L., Baloš S.: Ručno-elektrolučno zavarivanje rutilnim elektrodama sa modifikovanom oblogom, 11. International Scientific Conference ETIKUM, Novi Sad, 6-8 Decembar, 2017, pp. 93-96, ISBN 978-86-6022-00-68
3. Pećanac M., Dramićanin M., Janjatović P., Labus Zlatanović D., Rajnović D., Šiđanin (Sidjanin) L., Baloš S.: Uticaj geometrije ramena alata na osobine zavarenih spojeva dobijenih zavarivanjem trenjem sa mešanjem, 11. International Scientific Conference ETIKUM, Novi Sad, 6-8 Decembar, 2017, pp. 97-100, ISBN 978-86-6022-00-68
4. Radošević M., Ružić D., Baloš S., Bodolo T.: Mikrostrukturalna ispitivanja kratkog spoja u postupku veštačenja uzorka požara na vozilu, 12. Savetovanje na temu saobraćajne nezgode, Zlatibor, 18-20 Maj, 2017
5. Rajnović D., Mačaš M., Ristić M., Janjatović P., Labus Zlatanović D., Baloš S., Šiđanin (Sidjanin) L.: Nastanak kontaminiranog sloja i zone bez karbida kod superlegure IN100 prilikom toplog hidrostatskog presovanja, 11. International Scientific Conference ETIKUM, Novi Sad: FTN, 6-8 Decembar, 2017, pp. 85-88, ISBN 978-86-6022-00-68
6. Ristić M., Lužanin O., Baloš S., Radusin T., Rajnović D., Šiđanin (Sidjanin) L., Dramićanin M.: Uticaj temperature radne ploče 3d štampača na procenat kristalnosti PLA uzoraka izrađenih FDM tehnologijom, 11. International Scientific Conference ETIKUM, Novi Sad, 6-8 Decembar, 2017, pp. 45-48, ISBN 978-86-6022-00-68

Spisak rezultata M84 - Bitno poboljšani postojeći proizvod ili tehnologija

1. Baloš S., Janjatović P., Rajnović D., Šiđanin (Sidjanin) L., Dramićanin M., Radisavljević I., Erić-Cekić O.: Postupak proizvodnje predoklopa od ADI materijala - ekvivalentan komercijalnim perforiranim pločama od čelika, 2017
2. Baloš S., Janjatović P., Rajnović D., Šiđanin (Sidjanin) L., Dramićanin M., Radisavljević I., Erić-Cekić O.: Postupak proizvodnje predoklopa od ADI materijala sa najvećom masenom efikasnošću, 2017

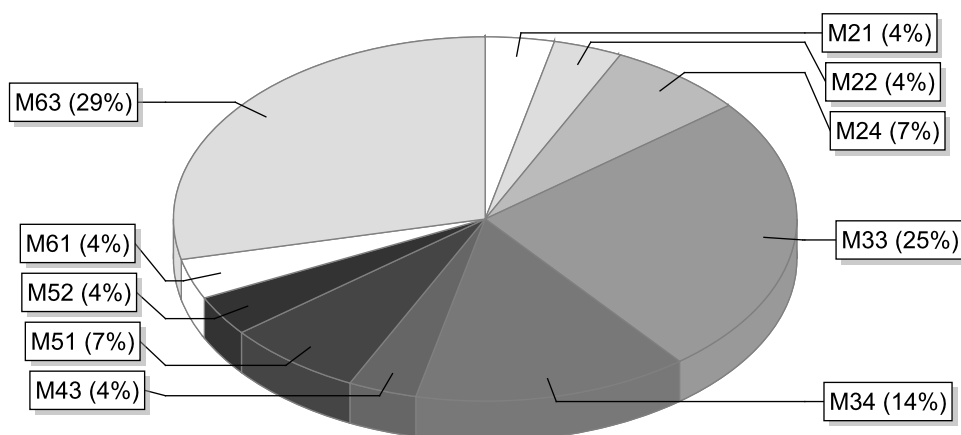


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za tehnologije oblikovanjem i inženjerstvo površina

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	7
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Monografska bibliografska publikacija	M43	1
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u časopisu nacionalnog značaja	M52	1
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	8



## PRODUKCIJA - REZULTATI

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

1. Milutinović M., Baloš S., Plančak M., Movrin D.: Comparison of Some Mechanical Properties and Micro-Topography of A Component With Non-Axisymmetric Geometry Manufactured by Cold Orbital and Hot Forging, *Journal of Materials Processing Technology*, 2017, Vol. 249, pp. 179-192, ISSN 0924-0136

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

1. Milutinović M.: Methodological approach for the texture deformation analysis in the cold extrusion process, *International Journal of Advanced Manufacturing Technology*, 2017, No DOI 10.1007/s00170-017-0373-3, ISSN 0268-3768., pp. 1-11, ISSN 0268-3768

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

1. Milutinović M.: Deep drawing technology with wall ironing in mass packaging industry, *Facta universitatis - series: Mechanical Engineering*, 2017, Vol. 15, No 1, pp. 107-117, ISSN 0354-2025
2. Terek P., Kovačević L., Miletić A., Kukuruzović D., Škorić B., Drnovšek A., Panjan P.: Ejection performance of coated core pins intended for application on high pressure die casting tools for aluminium alloys processing, *Tribology in Industry*, 2017, Vol. 39, No 3, pp. 334-339, ISSN 0354-8996

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

1. Kovačević L., Terek P., Miletić A., Kukuruzović D., Škorić B., Panjan P.: Wear analysis of PVD hard coatings for high pressure die casting tools, 15. International Conference on Tribology - SERBIATRIB, Kragujevac: Serbian Tribology Society, University of Kragujevac, Faculty of Engineering, 17-19 Maj, 2017, pp. 275-280, ISBN 978-86-6335-041-0
2. Kukuruzović D., Terek P., Miletić A., Kovačević L., Škorić B.: Influence of tip wear on the results of AFM measurements, 15. International Conference on Tribology - SERBIATRIB, Kragujevac: Serbian Tribology Society, University of Kragujevac, Faculty of Engineering, 17-19 Maj, 2017, pp. 608-613, ISBN 978-86-6335-041-0
3. Miletić A., Panjan P., Terek P., Kovačević L., Kukuruzović D., Škorić B.: Tribological properties of nanocomposite TiSiN and monolayer TiAlN coating, 15. International Conference on Tribology - SERBIATRIB, Kragujevac: Serbian Tribology Society, University of Kragujevac, Faculty of Engineering, 17-19 Maj, 2017, pp. 215-220, ISBN 978-86-6335-041-0
4. Milošević R., Kašiković N., Pavlović Ž., Stanković Elesini U., Kukuruzović D., Urbas R.: INFLUENCE OF MICROCAPSULES' CONCENTRATION ON THE PHYSICAL AND SURFACE CHARACTERISTICS OF THE PRINTS, 2. 2nd International Printing Technologies Symposium – PrintIstanbul 2017, Istanbul: Marmara Üniversitesi, 11-12 Oktobar, 2017, pp. 133-142, ISBN 978-9944-0636-7-8
5. Škorić B., Miletić A., Terek P., Kovačević L., Kukuruzović D.: Influence of ion implantation on duplex hard coatings, 5. International Scientific Conference on Advances in Mechanical Engineering – ISCAME, Debrecen: Faculty of Engineering, University of Debrecen, Debrecen, Hungary, 12-14 Oktobar, 2017, pp. 479-484, ISBN 978-963-473-304-1
6. Terek P., Kovačević L., Miletić A., Kukuruzović D., Škorić B., Drnovšek A., Panjan P.: Cast alloy soldering tendency and corrosion resistance of duplex PVD coatings for application on die casting tools for aluminum alloys processing, 60. Annual Technical Conference - SVC TechCon, Providence: Society of vacuum coaters, 29-4 April, 2017, pp. 1-6, ISBN 0737-5921
7. Terek P., Kovačević L., Miletić A., Kukuruzović D., Škorić B., Drnovšek A., Panjan P.: Ejection performance of coated core pins intended for application on die casting tools for aluminium alloys procesing, 15. International Conference on Tribology - SERBIATRIB, Kragujevac: Serbian Tribology Society, University of Kragujevac, Faculty of Engineering, 17-19 Maj, 2017, pp. 382-387, ISBN 978-86-6335-041-0

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

1. Miletić A., Panjan P., Čekada M., Kovačević L., Terek P., Škorić B., Dražić G., Kovač J.: Influence of the type of substrate rotation on microstructure of magnetron sputtered nanolayered TiAlN/TiSiN coatings, 19. Annual Conference-YUCOMAT, Herceg Novi: Materials Research Society of Serbia, Belgrade, Serbia, 4-8 Septembar, 2017, pp. 44-44, ISBN 978-86-919111-2-6
2. Miletić A., Panjan P., Čekada M., Kovačević L., Terek P., Škorić B.: Nanocomposite Ti-Si-N coatings prepared with different rotations, 12. Conference for Young Scientists in Ceramics, Novi Sad: Faculty of Technology, University of Novi Sad, Novi Sad, Serbia, 18-21 Oktobar, 2017, pp. 111-111, ISBN 978-86-6253-082-0
3. Miletić A., Škorić B., Panjan P., Kovačević L., Terek P., Dražić G.: NANOLAYERED CrTiAlN/TiSiN

COATING DESIGNED FOR TRIBOLOGICAL APPLICATION, 4. Conference of The Serbian Society for Ceramic Materials CSCS, Beograd: Institute for Multidisciplinary Research, University of Belgrade, 14-16 Jun, 2017, ISBN 978-86-80109-20-6

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Spisak rezultata M43 - Monografska bibliografska publikacija

1. Doroslovački R., Vilotić D., Katić V., Kovačević I., Šešlija D., Kolaković S., Budak I., Konjović Z.: Doktorske akademske studije na Fakultetu tehničkih nauka u Novom Sadu – nekad i sad, Novi Sad, FTN izdavaštvo, Edicija „Tehničke nauke – monografije“, 2017, ISBN 978-86-6022-009-9

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Miletić A., Panjan P., Čekada M., Terek P., Kovačević L., Škorić B.: Elastic-plastic behavior of hard ceramic coatings, Journal for Technology of Plasticity, 2017, Vol. 42, No 2, pp. 11-22, ISSN 0354-3870, UDK: 621.7
2. Šokac M., Budak I., Mirković S., Santoši Ž., Movrin D., Puškar T.: The role of advanced 3D technologies and additive manufacturing in designing and manufacturing of customized bone grafts, Journal for Technology of Plasticity, 2017, Vol. 42, No 2, pp. 33-45, ISSN 0354-3870, UDK: 621.7

Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Šokac M., Budak I., Santoši Ž., Balaž B., Milutinović M.: Redesign of robotic arm by the application of reverse engineering and rapid prototyping technologies, Machine Design, 2017, Vol. 9, No 3, pp. 93-98, ISSN 1821-1259

Spisak rezultata M61 - Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini

1. Vilotić D., Medvečki D., Milutinović M.: Studije mašinstva na Fakultetu tehničkih nauka u Novom Sadu, 1. Konferencija sa međunarodnim učešćem "Primena novih tehnologija i ideja u školskom inženjerskom obrazovanju", Požega (Užička): Tehnička škola Požega, 15-16 Maj, 2017, pp. 31-39, ISBN 978-86-915487-1-1

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

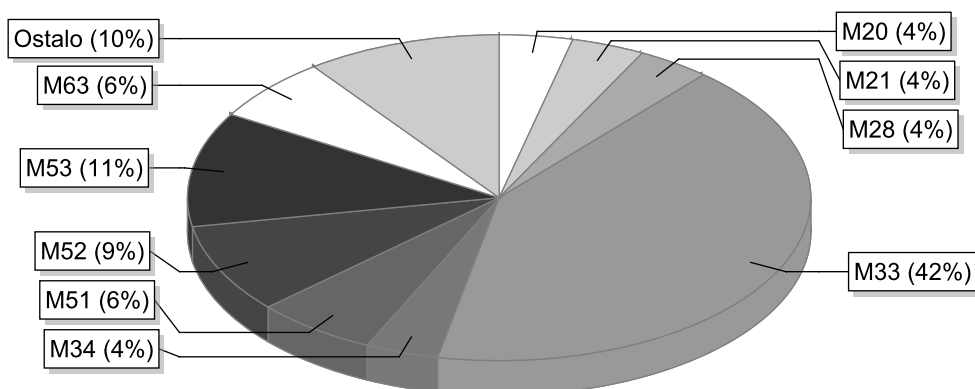
1. Doroslovački R., Šešlija D., Vilotić D., Kovačević I., Kolaković S., Katić V.: FTN i potrebe nastave IT sektora, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 104-108, ISBN 978-86-7892-904-5
2. Katić V., Doroslovački R., Vilotić D., Kovačević I., Šešlija D., Kolaković S.: Evaluacija nastave master studija na osnovu profesorskih ocena studenata i vice versa, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 66-69, ISBN 978-86-7892-904-5
3. Kolaković S., Doroslovački R., Katić V., Vilotić D., Kovačević I., Šešlija D., Mučenski V., Peško I.: Contribution of the Faculty of Technical Sciences to the economic benefits of New Science & Technology Park, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 315-318, ISBN 978-86-7892-904-5
4. Kovačević I., Doroslovački R., Katić V., Vilotić D., Kolaković S., Šešlija D., Zivlak V.: Unapređivanje vrsta i nivoa studija u visokom obrazovanju, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 256-260, ISBN 978-86-7892-904-5
5. Ristić M., Lužanin O., Baloš S., Radusin T., Rajnović D., Šiđanin (Sidjanin) L., Dramićanin M.: Uticaj temperature radne ploče 3d štampača na procenat kristalnosti PLA uzoraka izrađenih FDM tehnologijom, 11. International Scientific Conference ETIKUM, Novi Sad, 6-8 Decembar, 2017, pp. 45-48, ISBN 978-86-6022-00-68
6. Šešlija D., Doroslovački R., Katić V., Vilotić D., Kovačević I., Kolaković S.: Implementacija i evaluacija udaljenih eksperimenata na Fakultetu tehničkih nauka u Novom Sadu, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 118-125, ISBN 978-86-7892-904-5
7. Škorić B., Schritwieser R.: Nanomaterials in medical applications, 10. Naučna konferencija sa međunarodnim učešćem (ETIKUM), Novi Sad: Fakultet tehničkih nauka u Novom Sadu, 23-25 Jun, 2016, pp. 97-100, ISBN 978-86-7892-826-0
8. Vilotić D., Doroslovački R., Kovačević I., Katić V., Šešlija D., Kolaković S., Konjović Z.: Analiza uspešnosti doktorskih akademskih studija na Fakultetu tehničkih nauka, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 77-83, ISBN 978-86-7892-904-5

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za mehanizaciju i konstrukciono mašinstvo

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografija međunarodnog značaja	M12	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u međunarodnom časopisu	M23	2
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Uređivanje međunarodnog naučnog časopisa	M28	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	33
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Rad u vodećem časopisu nacionalnog značaja	M51	5
Rad u časopisu nacionalnog značaja	M52	7
Rad u naučnom časopisu	M53	9
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5
Odbranjena doktorska disertacija	M71	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	1

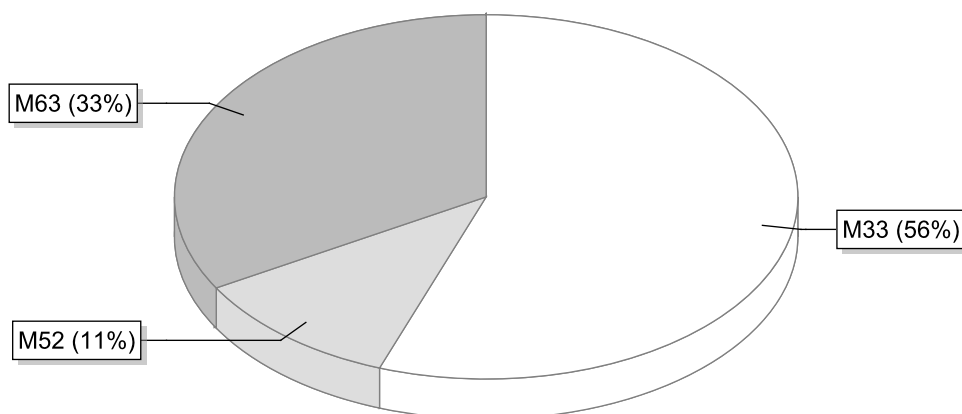


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za mašinske konstrukcije, transportne sisteme i logistiku

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	3



## PRODUKCIJA - REZULTATI

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

1. Đokić R., Vladić J., Živanić D.: Experimental method reviewing for dynamic parameters determining of vertical transport, 6. Transport and Logistics - TIL, Niš: Faculty of Mechanical Engineering, 25-26 Maj, 2017, pp. 43-48, ISBN 978-86-6055-053-0
2. Đokić R.: Application of numerical methods for analysis of vertical transport systems, 9. Heavy Machinery-HM, Zlatibor: Faculty of Mechanical and Civil Engineering in Kraljevo, 28-1 Jun, 2017, pp. 25-32, ISBN 978-86-82631-74-3
3. Mirčetić D., Nikoličić S., Bojić S., Maslarić M.: Identifying the Barriers for Development of Inland Waterway Transport: a Case Study; 18th International Scientific Conference - LOGI 2017, MATEC Web of Conferences, 2017, Vol. 134, ISSN 2261-236X, 18. International scientific conference LOGI, Češke Budejovice, 19 Oktobar, 2017, UDK: DOI: 10.1051/mateconf/201713400039
4. Szabó L., Kovács Z., Zelić A.: The role of technology management from the aspect of a given engineering company, 7. EMC-International Symposium Engineering Management and Competitiveness, Zrenjanin: Technical Faculty Mihajlo Pupin, 16-17 Jun, 2017, pp. 37-41, ISBN 978-86-7672-301-0
5. Zuber N.: CHALLENGES OF ROLLING ELEMENT BEARINGS FAULT DETECTION BASED ON VIBRATION SIGNAL MEASUREMENT AND ANALYSIS, 8. International Scientific Conference Research and development of mechanical elements and systems - IRMES, Trebinje: Faculty of Mechanical Engineering, University of Montenegro, 7-9 Septembar, 2017, pp. 379-383, ISBN 978-9940-527-53-2

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

1. Vladić J., Đokić R.: Characteristics of mathematical methods and specialized software systems for dynamic analysis of elevators and mining elevators, IMK-14 - Istraživanje i razvoj, 2017, Vol. 23, No 2, pp. 31-38, ISSN 0354-6829

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

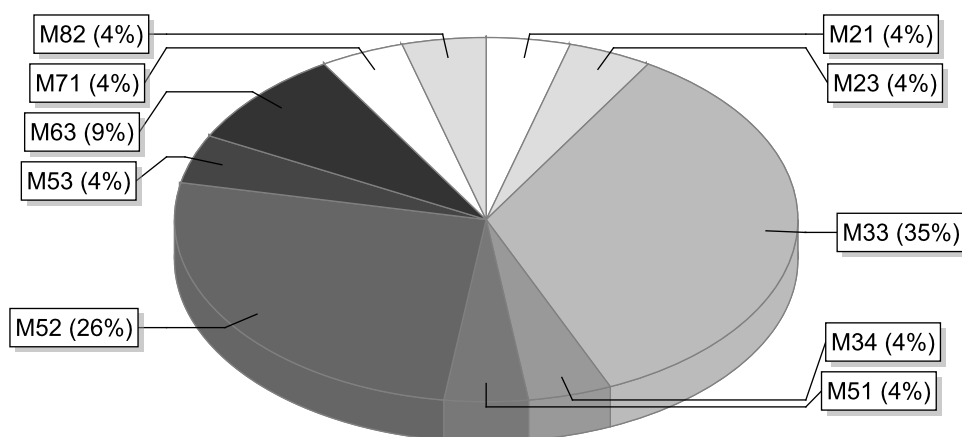
1. Obradović M., Zelić A., Šostakov R., Đokić R., Živanić D.: Obuka dizaličara - značaj, stanje u Srbiji i mogućnost unapređenja, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 68-76, ISBN 978-86-919221-2-2
2. Vladić J., Đokić R., Živanić D., Zelić A.: Incidentne situacije kod električnih liftova i postupci za njihovo otklanjanje, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 85-94, ISBN 978-86-919221-2-2
3. Živanić D., Gajić A., Đokić R., Zelić A.: Opasnosti i bezbednosne mere kod pokretnih stepenica, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 77-84, ISBN 978-86-919221-2-2

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za motore i vozila

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	8
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	6
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	2
Odbranjena doktorska disertacija	M71	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1



## PRODUKCIJA - REZULTATI

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

1. Stojić B., Poznanović N., Poznić A.: RESEARCH AND MODELING OF THE TRACTOR TIRE ENVELOPING BEHAVIOR, *Journal of Vibration and Control*, 2017, Vol. 23, No 2, pp. 290-304

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Poznić A., Miloradović D., Juhas A.: A new magnetorheological brake's combined materials design approach, *Journal of Mechanical Science and Technology*, 2017, Vol. 31, No 3, pp. 1119-1125, ISSN 1738-494X

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

1. Dorić J., Nikolić N.: Load analysis of crankshaft drive with the use computer simulation, 17. Symposium on Thermal Science and Engineering of Serbia – SIMTERM, Soko Banja: Symposium on Thermal Science and Engineering of Serbia, 20-23 Oktobar, 2015, pp. 977-981
2. Dorić J., Vujičić L., Nikolić N.: Simulation of working process in IC Engine, 17. Symposium on Thermal Science and Engineering of Serbia – SIMTERM, Soko Banja: Society of Thermal Engineers of Serbia, 20-23 Oktobar, 2015, pp. 983-987, ISBN 978-86-6055-097-4
3. Karanović V., Jocanović M., Nikolić N., Lubich M., Orošnjak M.: Lubricating Oils for Automotive Natural Gas Engines, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: University of Banja Luka, Faculty of Mechanical Engineering, 26-27 Maj, 2017, pp. 847-854, ISBN 978-99938-39-72-9, UDK: 621.3(082)(0.034.2); 621(082)(0.034.2); 004(082)(0.034.2);
4. Nikolić N., Dorić J., Tadić N.: INFLUENCE OF IC ENGINE CRANKSHAFT MAIN JOURNALS LENGTHS ON MAIN BEARINGS LOAD, 8. International Conference on Innovative Technologies IN-TECH, Ljubljana, 11-13 Septembar, 2017, pp. 21-24, ISBN 0184-9069
5. Poznić A., Stojić B.: Novel magnetorheological brakes' simulation, 4. Regional Conference - Mechatronics in Practice and Education (MECHEDU), Subotica: Subotica Tech – College of Applied Sciences, 4-5 Maj, 2017, pp. 52-56, ISBN 978-86-918815-2-8
6. Radošević M., Baloš S., Ružić D.: Metallographic test and strength of the material of chans snow, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka, 26-27 Maj, 2017
7. Ružić D., Sovilj V.: Application of refrigeration simulation tools in study of automotive air-conditioner, 18. Symposium on Thermal Science and Engineering of Serbia – SIMTERM, Soko Banja: Mašinski fakultet u Nišu, 17-20 Oktobar, 2017, pp. 998-1004, ISBN 978-86-6055-098-1
8. Ružić D.: Potentials for improvement of the thermal conditions in self-propelled agricultural machine cab, 6. Transport and Logistics - TIL, Niš: Mašinski fakultet u Nišu, 25-26 Maj, 2017, pp. 123-127

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

1. Adamović D., Vojinović-Miloradov M., Dorić J., Adamović (Majkić) S., Obrovski B., Radonić (Jakšić) J., Turk Sekulić M.: Benzene concentration levels in exhaust gas of experimental engine, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Slovak University of Technology, 20-22 Septembar, 2017, pp. 1-1, ISBN 978-80-227-4731-8

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

1. Stojić B., Poznić A.: Determination of Basic Mechanical Parameters of the Tractor Tyre by Using Universal Approach, *Machine Design*, 2017, Vol. 9, No 1, pp. 23-28, ISSN 1821-1259

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

1. Dorić J.: Poređenje karakteristika oslobađanja toplote korišćenjem dizela i biodizela kao pogonskog goriva motora SUS, *Traktori i pogonske mašine*, 2017, Vol. 22, No 3/4, pp. 54-58, ISSN 0354-9496, UDK: 631.372
2. Poznić A., Miloradović D.: Experimental evaluation of magnetorheological disk brake, *Mobility and Vehicle Mechanics*, 2017, Vol. 42, No 1, pp. 45-54, ISSN 1450-5304
3. Ružić D., Galamboš S.: THERMAL RADIATION BETWEEN THE DRIVER AND THE VEHICLE CABIN INTERIOR, *Mobility and Vehicle Mechanics*, 2017, Vol. 43, No 1, pp. 29-37, ISSN 1450-5304, UDK: 629.113;614.8.084
4. Ružić D., Simikić M.: Inicijalni toplotni uslovi u kabini poljoprivrednog traktora izloženog zračenju sunca, *Traktori i pogonske mašine*, 2017, Vol. 22, No 3/4, pp. 48-53, ISSN 0354-9496, UDK: 657.338.5
5. Ružić D., Stojić B., Simikić M.: Ispitivanje prepravljanih poljoprivrednih vozila kao jedan od faktora



bezbednosti saobraćaja i rada, Traktori i pogonske mašine, 2017, Vol. 22, No 3/4, pp. 42-47, ISSN 0354-9496, UDK: 657.338.5

6. Ružić D., Stojić B.: Ispitivanje pojedinačno proizvedenih poljoprivrednih vozila u oblasti bezbednosti saobraćaja i rada, Traktori i pogonske mašine, 2017, Vol. 22, No 3/4, pp. 35-41, ISSN 0354-9496, UDK: 657.338.5

Spisak rezultata M53 - Rad u naučnom časopisu

1. Dorić J.: IMPROVEMENT OF TURBO DISESEL IC ENGINE WITH ELECTRIC COMPRESSOR , Machine Design, 2017, Vol. 9, No 2, pp. 61-64, ISSN 1821-1259

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

1. Radošević M., Ružić D., Baloš S., Bodolo T.: Mikrostrukturalna ispitivanja kratkog spoja u postupku veštačenja uzorka požara na vozilu, 12. Savetovanje na temu saobraćajne nezgode, Zlatibor, 18-20 Maj, 2017
2. Ružić D., Stojić B.: Ispitivanje prepravljenih i pojedinačno proizvedenih drumskih vozila kao bitan faktor bezbednosti saobraćaj, 12. Savetovanje na temu saobraćajne nezgode, Zlatibor, 18-20 Maj, 2017, pp. 378-386, ISBN 978-85-86931-14-6

Spisak rezultata M71 - Odbranjena doktorska disertacija

1. Poznić A.: Povećanje ukupnog kočnog momenta magnetoreološke disk kočnice primenom kombinovanog režima rada, Novi Sad, Fakultet tehničkih nauka , 2017

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

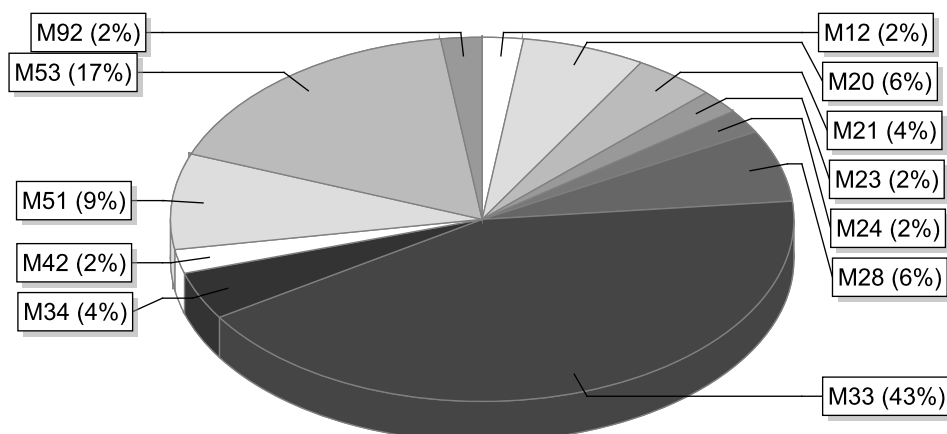
1. Ružić D., Stojić B., Bojić S., Surčinski J., Milisavić P.: Radna mašina za odsecanje metlice i pesticidno tretiranje kukuruza - Hidromatiks, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za mašinske elemente, teoriju mašina i mehanizama

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografija međunarodnog značaja	M12	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u međunarodnom časopisu	M23	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Uređivanje međunarodnog naučnog časopisa	M28	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	20
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Rad u vodećem časopisu nacionalnog značaja	M51	4
Rad u naučnom časopisu	M53	8
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	1



## PRODUKCIJA - REZULTATI

### Spisak rezultata M12 - Monografija međunarodnog značaja

1. Kovačić I., Radomirović D.: Mechanical Vibrations: Fundamentals with Solved Examples, John Wiley and Sons, 2017, ISBN 978-1-118-67515-1

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

1. Kovačić I., Zuković M.: Coupled purely nonlinear oscillators: normal modes and exact solutions for free and forced responses, Nonlinear Dynamics, 2017, Vol. 87, pp. 713-726, ISSN 0924-090X
2. Kovačić I.: Externally excited purely nonlinear oscillators: insights into their response at different excitation frequencies, DOI 10.1007/s11071-017-3741-5, Nonlinear Dynamics, 2017, pp. 1-14, ISSN 0924-090X
3. Zuković M., Kovačić I.: An insight into the behaviour of oscillators with a periodically piecewise-defined time-varying mass, Communications in Non-linear Science and Numerical Simulation, 2017, Vol. 42, pp. 187-203, ISSN 1007-5704

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

1. Kovačić I.: On the response of purely nonlinear oscillators: an Ateb-type solution for motion and an Ateb-type external excitation, International Journal of Nonlinear Mechanics, 2017, Vol. 92, pp. 15-24, ISSN 0020-7462
2. Rakarić Z., Kovačić I., Cartmell M.: On the design of external excitations in order to make nonlinear oscillators respond as free oscillators of the same or different type, International Journal of Nonlinear Mechanics, 2017, Vol. 94, pp. 323-333, ISSN 0020-7462

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Desnica (Ginin) E., Nikolić I., Trninić V., Bojanić Šejat M.: Reliability Design of the Casting Machines under High Pressure 10.17559/TV-20150527101851, Tehnicki vjesnik - Technical Gazette, 2017, Vol. 24, No 4, pp. 1277-1282, ISSN 1330-3651

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

1. Penčić M., Čavić M., Borovac B.: Development of the Low Backlash Planetary Gearbox for Humanoid Robots, FME Transactions, 2017, Vol. 45, No 1, pp. 122-129, ISSN 1451-2092, UDK: 621, DOI: 10.5937/fmet1701122P

### Spisak rezultata M28 - Uređivanje međunarodnog naučnog časopisa

1. Kovačić I.: Associate Editor in Meccanica, Springer, Meccanica, 2017, ISSN 0025-6455
2. Kovačić I.: Subject Editor for Dynamics in European Journal of Mechanics A/Solids, European Journal of Mechanics - A: Solids, 2017, ISSN 0997-7538
3. Kovačić I.: Subject Editor for Nonlinear Oscillations in Journal of Sound and Vibration, Journal of Sound and Vibration, 2017, ISSN 0022-460X

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

1. Čavić M., Penčić M., Rackov M., Knežević I., Zlokolica M.: Dynamic Optimization of the Cam-Lever Mechanism for Thermoforming Machine Tool Driving, 5. International Conference on Advanced Manufacturing Engineering and Technologies - NEWTECH, Beograd: Springer, Cham, 5-9 Jun, 2017, pp. 185-198, ISBN 978-3-319-56429-6, UDK: DOI: 10.1007/978-3-319-56430-2\_13
2. Đoković J., Nikolić R., Penčić M., Čavić M., Hadzima B.: Estimate of the Fatigue Life of the Tube Joints Exposed to Axial Load, 14. International Conference on Fracture – ICF, Rhodes, 18-23 Jun, 2017, pp. 1-6
3. Ivanović L., Marković B., Arsovski S., Rackov M., Kuzmanović S.: Emotional Design and Quality of Life, 2. International Conference on Quality of Life, Kragujevac: Center for Quality, Faculty of Engineering, University of Kragujevac, 8-10 Jun, 2017, pp. 87-94, ISBN 978-86-6335-043-4
4. Knežević I., Čavić M., Bojić S., Rackov M., Penčić M., Surčinski J., Zlokolica M.: Optimal Design of the Mechanism for Configuration Change of the Seedbed Cultivator, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: Faculty of Technical Sciences in Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
5. Kovačić I.: Redesign of nonlinear Duffing oscillators to cause linear-like behaviour: two approaches, 8. International Engineering Symposium at Bánki (IESB 2016), Budimpešta, 17 Novembar, 2016, pp. 1-7
6. Penčić M., Čavić M., Borovac B., Rackov M.: Social Humanoid Robot SARA: Dynamic Analysis of the Arm, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: Faculty of Technical Sciences in Novi Sad, Serbia, 4-6 Oktobar, 2017, pp. 130-135, ISBN 978-86-7892-978-6

7. Penčić M., Čavić M., Rackov M., Borovac B., Knežević I., Zlokolica M.: Kinematic Analysis of the Robot Eyes Drive System with 7 DOFs, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: Faculty of Technical Sciences in Novi Sad, Serbia, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
8. Penčić M., Čavić M., Rackov M., Borovac B., Lu Z.: Drive System of the Robot Eyeballs and Eyelids with 8 DOFs, 12. IFToMM International Symposium on Science of Mechanisms and Machines – SYROM, Iasi: Springer, Cham [editors: I. Doroftei, C. Oprisan, D. Pisla, E.-C. Lovasz], 2-3 Novembar, 2017, pp. 47-56, ISBN 978-3-319-79110-4, UDK: DOI: 10.1007/978-3-319-79111-1\_5
9. Penčić M., Čavić M., Rackov M., Borovac B., Lu Z.: Kinematic-Dynamic Analysis of the Cam-Worm Mechanism for Humanoid Robots Shrug, 12. IFToMM International Symposium on Science of Mechanisms and Machines – SYROM, Iasi: Springer, Cham [editors: I. Doroftei, C. Oprisan, D. Pisla, E.-C. Lovasz], 2-3 Novembar, 2017, pp. 37-45, ISBN 978-3-319-79110-4, UDK: DOI: 10.1007/978-3-319-79111-1\_4
10. Penčić M., Čavić M., Rackov M., Borovac B.: Assistive Humanoid Robot MARKO: Development of the Waist Mechanism, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: Faculty of Mechanical Engineering in Banja Luka, B&H, 26-27 Maj, 2017, pp. 495-500, ISBN 978-99938-39-72-9
11. Penčić M., Čavić M., Rackov M.: Optimal Synthesis of the Robot Eyes Drive System with 7 DOFs, 8. International Scientific Conference Research and development of mechanical elements and systems - IRMES, Trebinje: Faculty of Mechanical Engineering in Podgorica, Montenegro, 7-9 Septembar, 2017, pp. 111-116, ISBN 978-9940-527-53-2
12. Penčić M., Čavić M., Savić S., Gnjatović M., Borovac B., Lu Z.: Social Humanoid Robot SARA: Development and Dilemmas, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo: ETRAN Society and Academic Mind, Belgrade, Serbia, 5-8 Jun, 2017, pp. 1-6, ISBN 978-86-7466-692-0
13. Rackov M., Blagojević M., Kuzmanović S., Matejić M., Knežević I., Čavić M., Penčić M.: Analysis of the Teeth Number Influence on the Gear Module Size and Load Carrying Capacity of Gear Pair of Universal Helical Gear Drives, 8. International Scientific Conference Research and development of mechanical elements and systems - IRMES, Trebinje: Faculty of Mechanical Engineering in Podgorica, Montenegro, 7-9 Septembar, 2017, pp. 225-230, ISBN 978-9940-527-53-2
14. Rackov M., Čavić M., Penčić M., Knežević I., Vereš M., Tica M.: Reducing of Scuffing Phenomenon at HCR Spur Gearing, 5. International Conference on Advanced Manufacturing Engineering and Technologies - NEWTECH, Beograd: Springer, 5-9 Jun, 2017, pp. 141-155, ISBN 978-3-319-56429-6, UDK: DOI: 10.1007/978-3-319-56430-2\_10
15. Rackov M., Čavić M., Penčić M., Vereš M.: Increasing the Resistance of Scuffing for HCR External Helical Gearing, 12. IFToMM International Symposium on Science of Mechanisms and Machines – SYROM, Iasi: Springer, Cham, 2-3 Novembar, 2017
16. Rackov M., Kuzmanović S., Čavić M., Penčić M., Knežević I., Ivanović L.: Aspects of the Engineering Design Process, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: Faculty of Technical Sciences in Novi Sad, Novi Sad, Serbia [editor: A. Anderla], 4-6 Oktobar, 2017, pp. 344-349, ISBN 978-86-7892-978-6
17. Rackov M., Kuzmanović S., Čavić M., Penčić M., Knežević I.: Influence of Operating and Ambient Temperature on Load Capacity of Universal Worm Gear Reducer, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: Faculty of Mechanical Engineering in Banja Luka, 26-27 Maj, 2017, pp. 533-538, ISBN 978-99938-39-72-9
18. Rackov M., Kuzmanović S., Penčić M., Čavić M., Knežević I.: Analysis of Different Concept Ways of Two-Stage Gear Reducers Design, 5. International Scientific Conference on Advances in Mechanical Engineering – ISCAME, Debrecen: Faculty of Engineering in Debrecen, Debrecen, Hungary [editors: S. Bodzás, T. Mankovits], 12-14 Oktobar, 2017, pp. 439-444, ISBN 978-963-473-304-1
19. Rackov M.: Analysis of Different Concept Ways of Two-Stage Gear Reducers Design, 5. International Scientific Conference on Advances in Mechanical Engineering – ISCAME, Debrecen: Faculty of Engineering in Debrecen, Debrecen, Hungary [editors: S. Bodzás, T. Mankovits], 12-14 Oktobar, 2017, pp. 439-444, ISBN 978-963-473-304-1
20. Tica M., Rackov M., Miltenović Đ., Miltenović A., Banić M.: Concept Solution of the Safety System for Avoiding Wrong Fuel Using in Cars and Prevention of Damage, 8. International Scientific Conference Research and development of mechanical elements and systems - IRMES, Trebinje: Faculty of Mechanical Engineering in Podgorica, Montenegro, 7-9 Septembar, 2017, pp. 175-180, ISBN 978-9940-527-53-2

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Penčić M., Čavić M., Rackov M., Knežević I., Borovac B., Mišković Ž.: Development of the Low Backlash Torso Joint for Humanoid Robots, 1. International Conference of Experimental and Numerical Investigations and New Technologies - CNN TECH, Zlatibor: Innovation Center of Faculty of Mechanical Engineering in Belgrade, Serbia, 2-5 Jul, 2017, pp. 53-53, ISBN 978-86-7083-938
2. Rackov M., Čavić M., Penčić M., Knežević I., Kuzmanović S., Mišković Ž.: Analysis of Operating Regime Influence on Thermal Power Capacity of Worm Drives, 1. International Conference of Experimental and Numerical Investigations and New Technologies - CNN TECH, Zlatibor: Innovation Center of Faculty of Mechanical Engineering in Belgrade, 2-5 Jul, 2017, pp. 3-3, ISBN 978-86-7083-938-0

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

1. Milojević Z., Rackov M., Knežević I., Bojanić Šejat M.: Inženjerske grafičke komunikacije, Novi Sad, Fakultet tehničkih nauka, 2017, ISBN 978-86-7892-887-1

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Kuzmanović S., Rackov M., Knežević I., Vereš M.: Different Selection Procedures of Universal Worm Gear Drives, Machine Design, 2017, Vol. 9, No 2, pp. 51-56, ISSN 1821-1259, UDK: DOI: 10.24867/MD.9.2017.2.51-56
2. Milojević Z., Tabaković S., Zeljković M., Živković A., Navalušić S.: Methodology of Knee Bones Models 3D Printing Based on CT Series of Images, Machine Design, 2017, Vol. 9, No 2, pp. 69-72, ISSN 1821-1259
3. Penčić M., Čavić M., Borovac B.: Optimal Synthesis of the Worm-Lever Mechanism for Humanoid Robots Shrug, Serbian Journal of Electrical Engineering, 2017, Vol. 14, No 2, pp. 245-256, ISSN 1451-4869, UDK: 007.52, DOI: 10.2298/SJEE161117005P
4. Tica M., Rackov M., Miltenović Đ., Miltenović A., Banić M.: Selection of Optimal Concept Solution for Preventing Wrong Fuel Using in Cars, Machine Design, 2017, Vol. 9, No 3, pp. 117-122, ISSN 1821-1259, UDK: DOI: 10.24867/MD.9.2017.3.117-122

Spisak rezultata M53 - Rad u naučnom časopisu

1. Alexa V., Ratiu S., Kiss I., Cioata V., Rackov M.: Innovation-Prototype. Making hydraulic and/or pneumatic plates using 3D printing technology, IOP Conference Series: Materials Science and Engineering, 2017, Vol. 294, pp. 1-8, ISSN 1757-8981, UDK: DOI: 10.1088/1757-899X/294/1/012095
2. Cioata V., Kiss I., Alexa V., Ratiu S., Rackov M.: Study of the influence of the cutting temperature on the magnitude of the contact forces in the machining fixtures, IOP Conference Series: Materials Science and Engineering, 2017, Vol. 294, pp. 1-9, ISSN 1757-8981, UDK: DOI: 10.1088/1757-899X/294/1/012072
3. Cvetičanin L., Kovačić I.: Exact solutions for the response of purely nonlinear oscillators: Overview, Journal of the Serbian Society for Computational Mechanics, 2017, Vol. 10, pp. 116-134, ISSN 1820-6530
4. Kiss I., Alexa V., Serban S., Rackov M., Čavić M.: Statistical research using the multiple regression analysis in areas of the cast hypereutectoid steel rolls manufacturing, IOP Conference Series: Materials Science and Engineering, 2017, Vol. 294, pp. 1-12, ISSN 1757-8981, UDK: DOI: 10.1088/1757-899X/294/1/012077
5. Kiss I., Cioata V., Ratiu S., Rackov M., Penčić M.: Statistical Experiments using the Multiple Regression Research for Prediction of Proper Hardness in Areas of Phosphorus Cast-Iron Brake Shoes Manufacturing, IOP Conference Series: Materials Science and Engineering, 2017, Vol. 294, No 1, pp. 1-10, ISSN 1757-8981, UDK: DOI: 10.1088/1757-899X/294/1/012078
6. Penčić M., Čavić M., Savić S., Rackov M., Borovac B., Lu Z.: Assistive Humanoid Robot MARKO: Development of the Neck Mechanism, MATEC Web of Conferences, 2017, Vol. 121, pp. 80051-80058, ISSN 2261-236X, UDK: DOI: 10.1051/mateconf/201712108005
7. Penčić M., Rackov M., Čavić M., Kiss I., Cioata V.: Social Humanoid Robot SARA: Development of the Wrist Mechanism, IOP Conference Series: Materials Science and Engineering, 2017, Vol. 294, No 1, pp. 1-10, ISSN 1757-8981, UDK: DOI: 10.1088/1757-899X/294/1/012079
8. Rackov M., Kuzmanović S., Knežević I., Čavić M., Penčić M.: Analysis of Justification for Applying Two Gear Sets within the Universal Gear Reducers, MATEC Web of Conferences, 2017, Vol. 121, pp. 10131-10138, ISSN 2261-236X, UDK: DOI: 10.1051/mateconf/201712101013

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

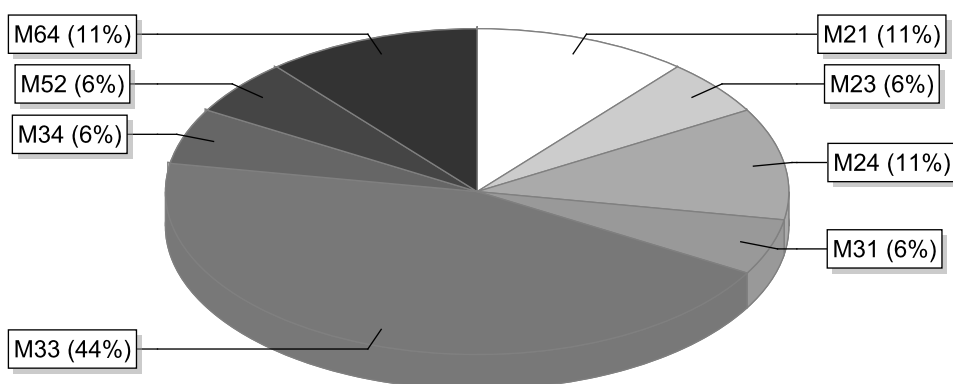
1. Kuzmanović S., Rackov M., Knežević I.: Cikloidni reduktor za betonske mešalice sa sigurnosnom spojnicom sa kuglicama, Zavod za intelektualnu svojinu – Sektor za patente, Registrovan mali patent pod brojem 1512 (31.08.2017.), 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za energetiku i procesnu tehniku

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	2
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	1
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	2

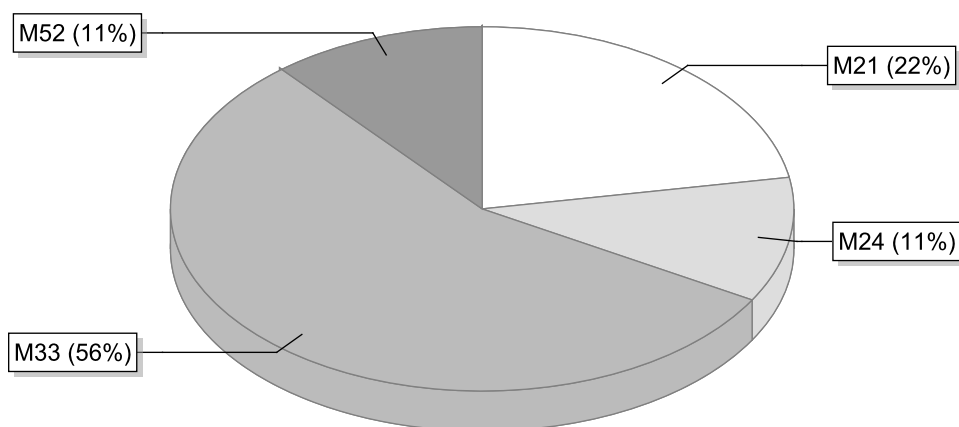


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za toplotnu tehniku

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Rad u časopisu nacionalnog značaja	M52	1



## PRODUKCIJA - REZULTATI

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

1. Gvozdenac D., Gvozdenac Urošević B., Menke C., Urošević D., Bangviwat A.: Gvozdenac D, Gvozdenac Urošević B, Menke C, Urošević D, Bangviwat A, High efficiency cogeneration: CHP and non-CHP energy, ENERGY, 135, (2017), pp 269-278, Energy, 2017, No 135, pp. 269-278, ISSN 0360-5442
2. Milutinović B., Stefanović G., Đekić P., Mijailović I., Tomić M.: ENVIRONMENTAL ASSESSMENT OF WASTE MANAGEMENT SCENARIOS WITH ENERGY RECOVERY USING LIFE CYCLE ASSESSMENT AND MULTI-CRITERIA ANALYSIS, Energy, 2017, Vol. 137, No 15, pp. 917-926, ISSN 0360-5442

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

1. Živković P., Tomić M., Dimitrijević D., Kecman I., Dobrnjac M.: INFLUENCE OF THE CHANGING LOCAL CLIMATE ON WIND POTENTIALS OF MOUNT KOPAONIK, Facta universitatis - series: Mechanical Engineering, 2017, Vol. 15, No 3, pp. 507-516, ISSN 0354-2025, UDK: 621.7

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

1. Đaković D., Doder Đ., Anđelković A.: HOW TO CHOSE WALNUT DRYING PROCESS, 30. Međunarodni kongres o procesnoj industriji PROCESING, Beograd: Savez mašinskih i elektrotehničkih inženjera i tehničara Srbije (SMEITS), 1-2 Jun, 2017, pp. 323-328, ISBN 978-86-81505-83-0
2. Đekić P., Tomić M., Milutinović B.: MATHEMATICAL MODELING OF THE BEGINNING OF THE DELAMINATION AT RUBBER CONVEYER BELTS, 6. Transport and Logistics - TIL, Niš: Mašinski fakultet Niš, 25-26 Maj, 2017, pp. 164-171, ISBN 978-86-6055-088-2
3. Medojević M., Díaz Villar P., Petrović J.: Simulation based, Benchmark analysis of performance focused on PV Power-plants in different climate conditions, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS ICET 2017 Conference Secretariat, University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, ISBN 978-86-7892-934-2
4. Medojević M., Medojević M., Čosić I., Lazarević M., Dakić D.: Determination and analysis of energy efficiency potential in socks manufacturing system, 28. DAAAM International Symposium on Intelligent Manufacturing and Automation, Zadar: DAAAM International, 8-11 Novembar, 2017, pp. 582-591, ISBN 978 - 3 - 902734 - 1
5. Medojević M., Taweekun J., Petrović J., Medojević M.: Productivity forecast of 10 MW PV power-plant in the Hot climate conditions: Case study for Bangkok, Thailand, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS ICET 2017 Conference Secretariat, University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, ISBN 978-86-7892-934-2

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

1. Medojević M., Medojević M.: Simulation Based Productivity Forecast of 1 MW PV Power Plant in the Weather Conditions Typical for Belgrade Region, International Journal of Industrial Engineering and Management, 2017, Vol. 8, No 2, pp. 91-97, ISSN 2217-2661, UDK: 621.311.243(497.11 Beograd)

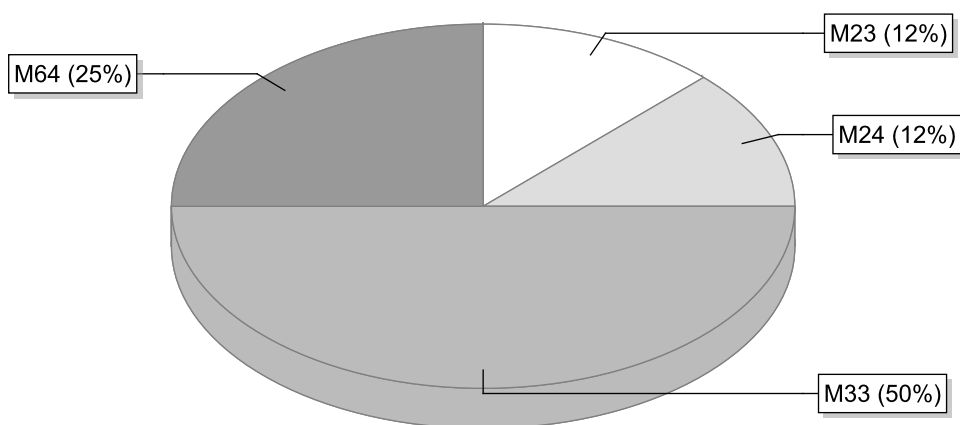


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za procesnu tehniku

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu	M23	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	4
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	2



## PRODUKCIJA - REZULTATI

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Sokolović D., Šećerov Sokolović R., Govedarica D.: Influence of fluid properties and solid surface energy on efficiency of bed coalescence, *Chemical Industry & Chemical Engineering Quarterly / CI&CEQ*, 2017, ISSN 1451-9372, UDK: <https://doi.org/10.2298/CICEQ170304034S>

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

1. Sokolović D., Kiralj A., Hadnađev-Kostić M., Laminger T., Sokolović S.: Uticaj viskoznosti dispergovane faze na koalescentnu filtraciju, *Zaštita materijala*, 2017, Vol. 58, No 3, pp. 293-296, ISSN 0351-9465, UDK: 66.063.37.062.2

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

1. Doder Đ., Đaković D.: AN ANALYSIS OF THE POSSIBILITIES FOR INTERMITTENT WALNUTS DRYING , 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017
2. Doder Đ., Đaković D.: WALNUT DRYING PROCESS, 30. Međunarodni kongres o procesnoj industriji PROCESING, Beograd: Savez mašinskih i elektrotehničkih inženjera i tehničara Srbije, 1-2 Jun, 2017, pp. 329-335, ISBN 978-86-81505-83-0
3. Đaković D., Doder Đ., Anđelković A.: HOW TO CHOSE WALNUT DRYING PROCESS, 30. Međunarodni kongres o procesnoj industriji PROCESING, Beograd: Savez mašinskih i elektrotehničkih inženjera i tehničara Srbije (SMEITS), 1-2 Jun, 2017, pp. 323-328, ISBN 978-86-81505-83-0
4. Sokolović D., Kiralj A., Hadnađev-Kostić M., Laminger T., Sokolović S.: The Effect Of Viscosity Of Dispersed Phase On Coalescent Filtration, 5. International Congress Engineering, Environment and Materials in Processing Industry, Jahorina, 15-17 Mart, 2017, pp. 771-778, UDK: 628.3:502.51

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

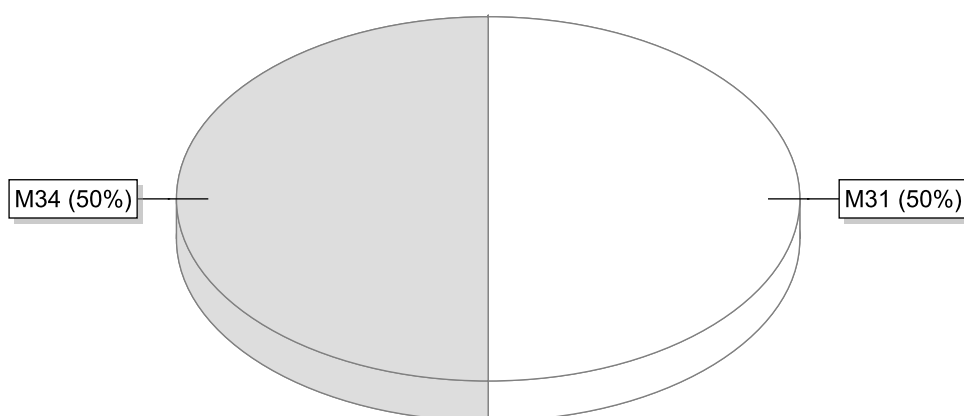
1. Doder Đ.: SOLAR ENERGY APPLICATIONS FOR WALNUT DRYING PROCESS, 11. Međunarodni forum o čistim energetske tehnologijama, Novi Sad, 26-27 Septembar, 2017
2. Hadnađev-Kostić M., Vulić (rođ. Gelei) T., Sokolović D., Kiralj A.: Adsorption studies of the removal of methyl orange from aqueous solution using layered double hydroxides, 12. Novel Technologies and Economic Development, Leskovac: Faculty of Technology, Leskovac, 20-21 Oktobar, 2017, pp. 141-141, ISBN 978-86-89429-22-0

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za mehaniku fluida i hidropneumatske sisteme

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1



## PRODUKCIJA - REZULTATI

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

1. Pavkov I., Stamenković Z., Radojčin M., Babić M., Bikić S., Mitrevski V., Lutovska M.: Convective and Freeze Drying of Raspberry: Effect of Experimental Parameters on Drying Kinetics, Physical Properties and Rehydration Capacity, 5. International Conference Sustainable Postharvest and Food Technologies INOPTeP and National Conference Processing and Energy in Agriculture PTEP, Vršac: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, 23-28 April, 2017, pp. 261-267, ISBN 978-86-7520-393-3

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

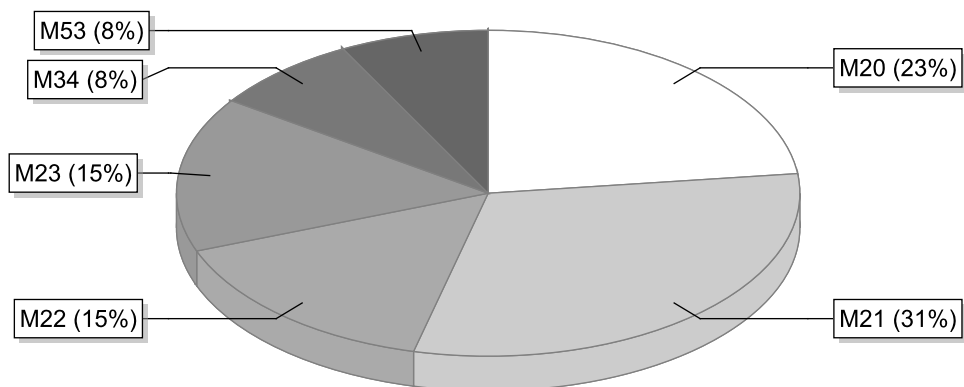
1. Bikić S., Bukurov M., Despotović B., Marković B., Pavkov I.: ACCURACY ANALYSIS OF ATP DAMPERS BASED ON BLADE PROFILES BY USING OF CFD,, 5. International Conference Sustainable Postharvest and Food Technologies INOPTeP and National Conference Processing and Energy in Agriculture PTEP, Vršac: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, Novi Sad, 23-28 April, 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za tehničku mehaniku

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u naučnom časopisu	M53	1

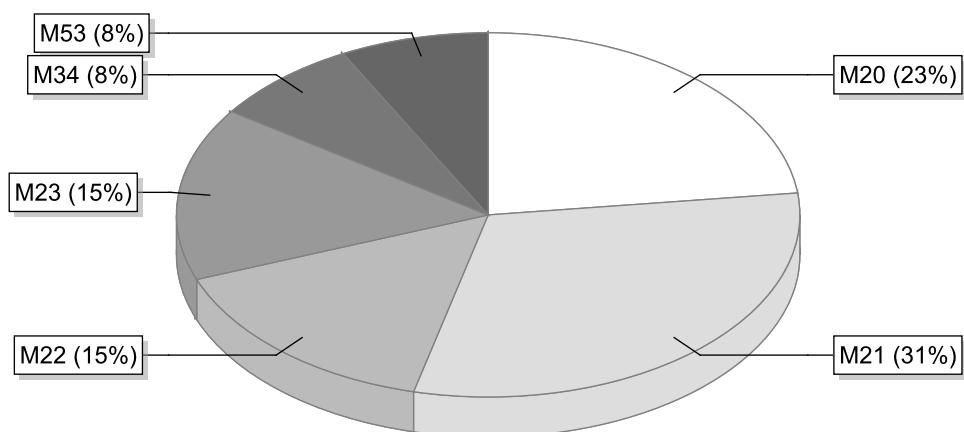


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za tehničku mehaniku

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u naučnom časopisu	M53	1



## PRODUKCIJA - REZULTATI

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

1. Cvetičanin L.: Period of vibration of axially vibrating truly nonlinear rod, *Journal of Sound and Vibration*, 2017, Vol. 374, pp. 199-210, ISSN 0022-460X
2. Kovačić I., Zuković M.: Coupled purely nonlinear oscillators: normal modes and exact solutions for free and forced responses, *Nonlinear Dynamics*, 2017, Vol. 87, pp. 713-726, ISSN 0924-090X
3. Zuković M., Kovačić I.: An insight into the behaviour of oscillators with a periodically piecewise-defined time-varying mass, *Communications in Non-linear Science and Numerical Simulation*, 2017, Vol. 42, pp. 187-203, ISSN 1007-5704

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

1. Atanacković T., Janev M., Pilipović S., Zorica D.: Euler-Lagrange equations for Lagrangians containing complex order fractional derivatives, *Journal of Optimization Theory and Applications*, 2017, Vol. 174, pp. 256-275
2. Glavardanov V., Maretić R., Žigić M., Grahovac N.: Secondary bifurcation of a shearable rod with nonlinear spring supports, *European Journal of Mechanics - A: Solids*, 2017, Vol. 66, pp. 433-445, ISSN 0997-7538
3. Rakarić Z., Kovačić I., Cartmell M.: On the design of external excitations in order to make nonlinear oscillators respond as free oscillators of the same or different type, *International Journal of Nonlinear Mechanics*, 2017, Vol. 94, pp. 323-333, ISSN 0020-7462
4. Zorica D., Žigić M., Grahovac N.: Viscoelastic body colliding against a rigid wall with and without dry friction effects, *Applied Mathematical Modelling*, 2017, Vol. 45, pp. 365-382, ISSN 0307-904X

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

1. Cvetičanin L.: Procedures for determination of elastic curve of simply and multiple support beams, *Structural Engineering and Mechanics*, 2017, Vol. 60, pp. 21-30, ISSN 1225-4568
2. Zorica D., Atanacković T., Vrcelj Z., Novaković B.: Dynamic stability of an axially loaded non-local rod on a generalized Pasternak foundation, Article ID D4016003, *Journal of Engineering Mechanics*, 2017, Vol. 143, pp. 1-10, ISSN 0733-9399

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Grahovac N., Stojanović Z., Kravić S., Orčić D., Suturović Z., Kondić-Špika A., Vasin J., Šunjka D., Jakšić S., Rajković M., Grahovac N.: Determination of residues of sulfonylurea herbicides in soil by using microwave-assisted extraction and high performance liquid chromatographic method, *Hemijska industrija*, 2017, Vol. 71, No 4, pp. 289-298, ISSN 2217-7426
2. Žigić M., Grahovac N.: Application of fractional calculus to frontal crash modeling, *Mathematical Problems in Engineering*, 2017, Vol. 2017, No Article ID 7419602, 10 pages, ISSN 1024-123X

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

1. Radonić (Jakšić) J., Rakarić Z., Turk Sekulić M., Vojinović-Miloradov M.: Development of a model for prediction of gas-particle partitioning of polycyclic aromatic hydrocarbons at urban and industrial locations, 19. International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Rim, 4-6 Oktobar, 2017, pp. 187-187

### Spisak rezultata M53 - Rad u naučnom časopisu

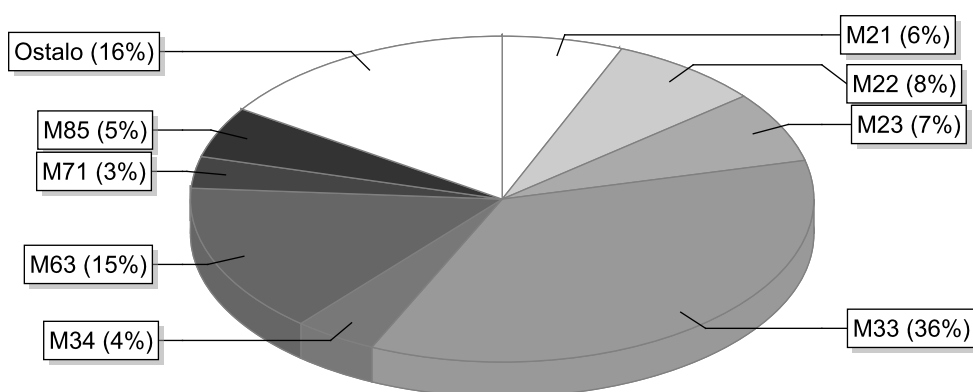
1. Cvetičanin L., Kovačić I.: Exact solutions for the response of purely nonlinear oscillators: Overview, *Journal of the Serbian Society for Computational Mechanics*, 2017, Vol. 10, pp. 116-134, ISSN 1820-6530

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za energetiku, elektroniku i telekomunikacije

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	2
Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja	M14	4
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	5
Rad u vrhunskom međunarodnom časopisu	M21	16
Rad u istaknutom međunarodnom časopisu	M22	20
Rad u međunarodnom časopisu	M23	18
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	4
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	91
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	11
Monografska bibliografska publikacija	M43	1
Rad u vodećem časopisu nacionalnog značaja	M51	4
Rad u časopisu nacionalnog značaja	M52	5
Rad u naučnom časopisu	M53	3
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	38
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	2
Odbranjena doktorska disertacija	M71	8
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	2
Bitno poboljšan postojeći proizvod ili tehnologija	M84	1
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	13



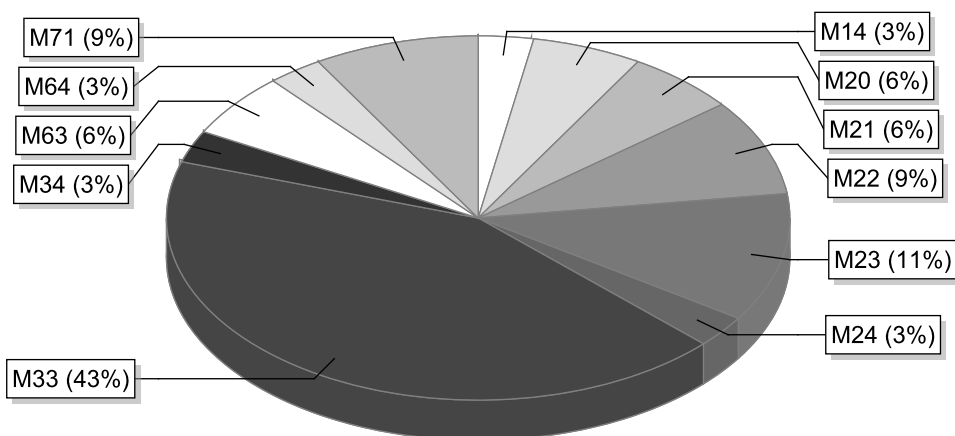


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za elektroenergetiku i primenjeni softverski inženjering

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	2
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	4
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	15
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	2
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
Odbranjena doktorska disertacija	M71	3



## PRODUKCIJA - REZULTATI

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

1. Lendak I., Lendak-Kabok K.: Language barrier faced by Hungarian women students and teaching staff in the higher education system in Serbia, Beograd, Faculty of Philology at the University of Belgrade, 2017, str. 281-295, ISBN 978-86-6153-123-1, UDK: 323.15(=511.141)-055.2(97.113)

Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Cvetičanin S., Zorica D., Rapačić M.: Generalized time-fractional telegrapher's equation in transmission line modeling, *Nonlinear Dynamics*, 2017, Vol. 88, pp. 1453-1472, ISSN 0924-090X
2. Popović N., Popović D., Seskar I.: A Novel Cloud-Based Advanced Distribution Management System Solution, *IEEE Transactions on Industrial Informatics*, 2017, pp. 1-8, ISSN 1551-3203

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Transtrum M., Sarić A., Stanković A.: Measurement-Directed Reduction of Dynamic Models in Power Systems, *IEEE Transaction on Power Systems*, 2017, No 99, pp. 1-11
2. Vidović P., Sarić A.: A novel correlated intervals-based algorithm for distribution power flow calculation, *International Journal of Electrical Power and Energy Systems*, 2017, No 90, pp. 245-255, ISSN 0142-0615

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Krsman V., Sarić A.: Bad area detection and whitening transformation-based identification in three-phase distribution state estimation, *IET Generation, Transmission and Distribution*, 2017, Vol. 11, No 9, pp. 2351-2361, ISSN 1751-8687
2. Krsman V., Sarić A.: Verification and Estimation of Phase Connectivity and Power Injections in Distribution Network, *Electric Power System Research*, 2017, Vol. 143, No 2, pp. 1-11, ISSN 0378-7796
3. Popović Ž., Brbaklić B., Knežević S.: A Mixed Integer Linear Programming Based Approach for Optimal Placement of Different Types of Automation, *Electric Power System Research*, 2017, Vol. 148, pp. 136-146, ISSN 0378-7796, UDK: 10.1016/j.epsr.2017.03.028

Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Dević S., Luković I.: Development of a Database for the Common Information Model of Power Grids, *Information Technology and Control*, 2017, Vol. 46, No 3, pp. 319-332, ISSN 1392-124X, UDK: DOI: 10.5755/j01.itc.46.3.14340
2. Lendak I., Nenadić K., Gavrić M.: Extending JSON-LD Framing Capabilities, *Acta Polytechnica Hungarica, Journal of Applied Sciences*, 2017, Vol. 14, No 6, pp. 75-94, ISSN 1785-8860
3. Martinović L.: Load Balancing of Large Distribution Network Model Calculations, *Advances in Electrical and Computer Engineering*, 2017, Vol. 17, No 4, pp. 11-18, ISSN 1582-7445
4. Šagi M., Varga E.: Dependable Peer-to-Peer SCADA Architecture, *Acta Polytechnica Hungarica, Journal of Applied Sciences*, 2017, Vol. 14, No 6, pp. 231-243, ISSN 1785-8860

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

1. Strezoski L., Prica M.: Real-Time Short-Circuit Analysis in Large-Scale Distribution Systems with High Penetration of Distributed Generation, *IEEE Computer, Journal of Computer and Software Engineering*, 2017, Vol. 4, No 2, pp. 243-251

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Bijelic Z., Milanovic B., Jovisic M., Jelačić B.: Research of development and production effects machinery and electric system for hydro power plants on the basis of its technologies, 8. International Scientific Conference Research and development of mechanical elements and systems - IRMES, Trebinje, 7-9 Septembar, 2017
2. Cvetičanin S., Rapačić M., Zorica D.: Frequency analysis of generalized time-fractional telegrapher's equation, 23. European Conference on Circuit Theory and Design, ECCTD, Catania, 4-6 Septembar, 2017, ISBN 978-1-5386-3974-0
3. Dalčeković N., Vukmirović S., Kovačević I., Stankovski J.: Providing flexible software as a service for smart grid by relying on big data platforms, 1. International Symposium on Networks, Computers and Communications (ISNCC), Marakesh: IEEE, 16-18 Maj, 2017, ISBN 978-1-5090-4260-9
4. Dejanović S., Lendak I., Stankovski J., Stanojević M.: Cost-benefit analysis of migrating the ADMS to the computing cloud, 7. International Conference on Information Science and Technology (ICIST), Kopaonik:

Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 90-92, ISBN 978-86-85525-19-3

5. Dumnić B., Popadić B., Strezoski L., Katić V., Milićević D.: Grid Connected Converter Operation under Balanced Grid Faults, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
6. Jelačić B., Rosić D., Lendak I., Stanojević M., Stoja S.: STRIDE to a secure Smart Grid in a hybrid cloud, 3. Industrial Control Systems & Of Cyber-Physical Systems CyberICPS, Oslo, 11-15 Septembar, 2017
7. Obrenović N., Vidaković G., Luković I.: The Choice of Metric for Clustering of Electrical Power Distribution Consumers, 1. International Data Science Conference (IDSC), Salzburg: Springer Vieweg, 12-13 Jun, 2017, pp. 71-76, ISBN 978-3-658-19286-0, UDK: DOI: 10.1007/978-3-658-19287-7\_10
8. Popović D.: The future and transformation of the Smart Grid technologies, 1. The International Annual Convention of SEEI (Society of Electrical and Electronics Engineers in Israel), Eilat, 7-11 Novembar, 2017, pp. 1-8
9. Strezoski L.: Distribution System Operational Challenges Following Integration of Renewable Generation, 1. IEEE Energy Tech, Cleveland, 28-30 Novembar, 2016
10. Strezoski L.: Emerging Distribution Systems: Modeling Challenges in Faulted Conditions, 1. IEEE Texas Power and Energy Conference (TPEC), Texas, 9-11 Februar, 2017
11. Strezoski L.: Real-Time Short-Circuit Analysis of Active Distribution Systems, 2. IEEE Power and Energy Conference (PECI), Illinois, 23-24 Februar, 2017
12. Strezoski L.: The Influence of Load Modeling on Distribution Protective Relay Current, 1. GEARED Student Workshop,, Charlotte, 4-6 Oktobar, 2015
13. Strezoski L.: The Need for Advanced Modeling and Calculations of Basic EMS and DMS Applications for Electronically Coupled Energy Resources, 2. IEEE Power and Energy Conference (PECI), Illinois, 23-24 Februar, 2017
14. Strezoski L.: Transmission System Planning for Integration of Renewable Electricity Generation Units, 1. IEEE Energy Tech, Cleveland, 28-30 Novembar, 2016
15. Šagi M., Varga E.: DHT Based SCADA Architecture, 25. Telekomunikacioni forum TELFOR, Beograd, 21-22 Novembar, 2017

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Lendak I.: Game theory, crowdsourcing and the peer review system, 2. Research Evaluation in the Social Sciences and Humanities (RESSH), Antwerp: University of Antwerp, 6-7 Jul, 2017, pp. 86-91

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

1. Cvetičanin S., Zorica D., Rapačić M.: Фреквенцијска анализа фракционог модела електричног вода, 61. ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku, Kladovo: Društvo za ETRAN, Beograd i Akademska misao, Beograd, 5-8 Jun, 2017, ISBN 978-86-7466-692-0
2. Strezoski L.: Modelovanje i Proračun Kratkih Spojeva Distributivnih Mreza sa Distribuiranim Generatorima Zasnovanim na Trofaznim Invertorima, 10. CIRED - International Conference on Electricity Distribution, Vrnjačka Banja, 26-30 Septembar, 2016

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

1. Lendak I.: Kritikus infrastruktúrák információrendszeri a felhőben - Biztonsági dilemmák, 7. Vajdasági Magyar Tudóstalálkozó, Subotica: Vajdasági Magyar Akadémiai Tanács (VMAT), 8 April, 2017, pp. 47-47, ISBN 978-86-89095-09-8

Spisak rezultata M71 - Odbranjena doktorska disertacija

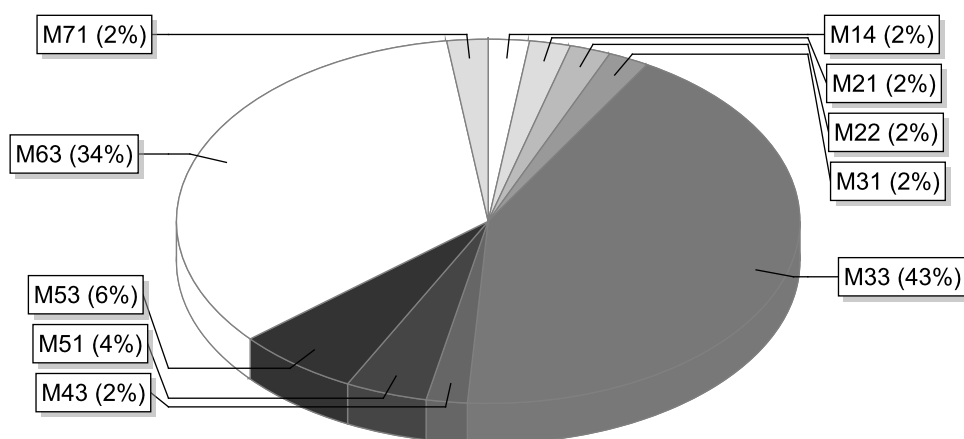
1. Cvetičanin S.: Фракционо и тополошко уопштење једначине телеграфичара као модел електричног вода, Novi Sad, Fakultet tehničkih nauka u Novom Sadu, 2017
2. Selakov A.: Optimalno upravljanje mikro mrežama u karakterističnim radnim režimima, 2017
3. Strezoski L.: Proračun kompleksnih kratkih spojeva neuravnoteženih distributivnih mreža sa distribuiranim energetske resursima, Novi Sad, Univerzitet Novi Sad, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za energetska elektroniku i pretvarače

Zbirni pregled naučno istraživačkih rezultata u 2017. 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 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	20
Monografska bibliografska publikacija	M43	1
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u naučnom časopisu	M53	3
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	16
Odbranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

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

1. Mujović S., Djukanović S., Katić V.: Simultaneous Operation of Personal Computers and Mathematical Assessment of Their Harmonic Impact on the Grid", Advanced Technologies, Systems, and Applications; Editors: Mirsad Hadžikadić and Samir Avdaković, Lecture Notes in Networks and Systems 3, Springer International Publishing AG, 2017, str. 57-79, UDK: DOI 10.1007/978-3-319-47295-9\_2

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Jerkan D., Reljić D., Marčetić D.: Broken Rotor Bar Fault Detection of IM Based on the Counter-Current Braking Method, IEEE Transactions on Energy Conversion, 2017, No 99, pp. 1-11, ISSN 0885-8969

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Porobić V., Adžić E., Vekić M., Grabić S., Ivanović Z.: Educational Framework for a Motor Drive Control Systems: Design and Performance Assessment, Computer Applications in Engineering Education, 2017, Vol. 25, No 2, pp. 264-276, ISSN 1061-3773, UDK: DOI 10.1002/cae.21795

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

1. Katić V.: Smart Energy Supply in A Smart City, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-3, ISBN 978-86-7892-934-2, UDK: COBISS.SR-ID 314741767

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Čorba Z., Popadić B., Katić V., Dumnić B., Milićević D.: Future of High Power PV Plants – 1500V Inverters, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad, 19-21 Oktobar, 2017, pp. 1-6, ISBN 978-86-7892-980-9
2. Dumnić B., Popadić B., Strezoski L., Katić V., Milićević D.: Grid Connected Converter Operation under Balanced Grid Faults, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
3. Dumnić B., Vukajlović N., Vujkov B., Adžić E., Popadić B., Milićević D., Katić V., Čorba Z., Jerkan D., Dragić M., Hofman M.: Control of Electrical Generator Used in Sigma Wave Energy Conversion System, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad, 19-21 Oktobar, 2017, pp. 1-6, ISBN 978-86-7892-980-9
4. Katić V., Stanisavljević A., Dumnić B., Popadić B.: Comparison of Voltage Dips Detection Techniques In Microgrids With High Level of Distributed Generation, 17. IEEE International Conference on Smart Technologies IEEE EUROCON, Ohrid, 5-8 Jul, 2017, pp. 417-422, ISBN 978-1-5090-3842-8
5. Katić V., Stanisavljević A., Popadić B., Dumnić B., Milićević D., Čorba Z.: Experimental Procedure for Testing of Voltage Dip Detection Algorithms, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
6. Katić V., Stanisavljević A.: Novel voltage dip detection algorithm using harmonics in the dip's transient stage, 43. Annual Conference of the IEEE Industrial Electronics Society, Beijing, 29-1 Oktobar, 2017, pp. 1-6
7. Katić V., Stanisavljević A.: Wavelet transform for voltage dips detection in a microgrid with distributed generation, 19. European Conference on Power Electronics and Applications, Varšava: EPE'17 ECCE Europe, 12-14 Septembar, 2017, pp. 1-6
8. Popadić B., Dumnić B., Katić V., Slijivac D., Pelin D.: Overview of Grid Connected Converter Synchronization Techniques under Different Grid Voltage Conditions, 2. International Conference on Smart Systems and Technologies (SST ), Osijek, 18-20 Oktobar, 2017, pp. 1-5, ISBN 978-1-5386-3776-0
9. Popadić B., Dumnić B., Milićević D., Katić V., Stanisavljević A.: DC-link voltage oscillation influence on grid connected converter power quality, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo, 5-8 Jun, 2017, pp. 1-5
10. Popadić B., Vasić V., Dumnić B., Milićević D., Vukajlović N.: Rotor Slot Harmonics Based Induction Machine Speed Estimation, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad, 19-21 Oktobar, 2017, pp. 1-5, ISBN 978-86-7892-980-9
11. Popović V., Oros Đ., Marčetić D., Matić P.: Convergence and stability analysis of IM rotor time constant estimators based on MRAS scheme, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad: Power electronics society, Novi Sad, 19-21 Oktobar, 2017, pp. 1-6, ISBN 978-86-7892-980-9

12. Savić N., Katić V.: Overview of the Configuration and Power Converters in High Voltage Direct Current Transmission System, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo, 5-8 Jun, 2017, pp. 1-7
13. Savić N., Katić V.: Potential of Solar Energy In The Republic of Serbia – A Practical Example of Exploitation, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-6, ISBN 978-86-7892-934-2, UDK: COBISS.SR-ID 314741767
14. Stanisavljević A., Katić V., Dumnić B., Popadić B.: Overview of the Distribution Test Grids With Distributed Generation and HVDC, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo, 5-8 Jun, 2017, pp. 1-6
15. Stanisavljević A., Katić V., Dumnić B., Popadić B.: Overview of Voltage Dips Detection Analysis Methods, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad, 19-21 Oktobar, 2017, pp. 1-6, ISBN 978-86-7892-980-9
16. Stanisavljević A., Katić V., Popadić B., Dumnić B.: Voltage dips detection in a microgrid with distributed generation for grid-tie inverter protection purposes, 19. European Conference on Power Electronics and Applications, Varšava: EPE'17 ECCE Europe, 12-14 Septembar, 2017
17. Todorović I., Grabić S., Ivanović Z., Reljić D., Popović V.: Flexible Hybrid Synchronous-Stationary Reference Frame GCC Control, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-933-5
18. Vekić M., Porobić V., Grabić S., Adžić E., Zogogianni C.: Explicit active power reference tracking algorithm for photovoltaic converter, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad: IEEE, 19-21 Oktobar, 2017, ISBN 978-1-5386-3502-5
19. Vukajlović N., Milićević D., Dumnić B., Popadić B.: Distributed Generator's Monitoring and Protection Relay Performance Analysis, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
20. Zogogianni C., Porobić V., Adžić E., Vekić M., Lorenzo R., Mario P.: Real-Time Power-Reference Tracking Method for PV Converters, 12. IEEE PowerTECH Conference, Manchester: Proceedings of the 2017 IEEE PES PowerTech, 18-22 Jun, 2017, ISBN 978-1-5090-4237-1

#### Spisak rezultata M43 - Monografska bibliografska publikacija

1. Doroslovački R., Vilotić D., Katić V., Kovačević I., Šešlija D., Kolaković S., Budak I., Konjović Z.: Doktorske akademske studije na Fakultetu tehničkih nauka u Novom Sadu – nekad i sad, Novi Sad, FTN izdavaštvo, Edicija „Tehničke nauke – monografije“, 2017, ISBN 978-86-6022-009-9

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

1. Čorba Z., Popadić B., Milićević D., Dumnić B., Katić V.: POSSIBILITY FOR USE OF PHOTOVOLTAIC IRRIGATION SYSTEMS IN REPUBLIC OF SERBIA, Journal on Processing and Energy in Agriculture, 2017, Vol. 21, No 1, pp. 27-31, ISSN 1821-4487
2. Popadić B., Katić V., Dumnić B., Milićević D., Čorba Z.: Synchronization Method for Grid Integrated Battery Storage Systems During Asymmetrical Grid Faults, Serbian Journal of Electrical Engineering, 2017, Vol. 14, No 1, pp. 113-131, ISSN 1451-4869, UDK: 621.391

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

1. Galić D., Katić V.: Ispitivanje postrojenja elektrolučne peći "R-S Silicon", Zbornik radova Fakulteta tehničkih nauka, 2017, Vol. 32, No 1, pp. 99-102, ISSN 0350-428X
2. Jandrić S., Dumnić B., Popadić B.: Tehnički zahtevi za priključenje malih elektrana na distributivni sistem, Zbornik radova Fakulteta tehničkih nauka, 2017, No 4/2017, pp. 563-566, ISSN 0350-428X, UDK: 621.31
3. Milenković N., Katić V.: Analiza trofaznog direktnog matričnog pretvarača, Zbornik radova Fakulteta tehničkih nauka, 2017, Vol. 32, No 1, pp. 68-71, ISSN 0350-428X

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

1. Čorba Z., Katić V., Dumnić B., Milićević D., Popadić B.: Novi trendovi u izgradnji FN elektrana velikih snaga, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad, 19-21 Oktobar, 2017, pp. 1-5, ISBN 978-86-7892-980-9
2. Čorba Z., Milićević D., Dumnić B., Katić V.: Iskustva nastavnih aktivnosti iz oblasti OIEE za studente specijalističkih strukovnih studija, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 282-286, ISBN 978-86-7892-904-5

3. Čorba Z., Popadić B., Milićević D., Dumnić B., Katić V.: MOGUĆNOSTI UPOTREBE SOLARNE ENERGIJE ZA NAVODNJAVANJE U REPUBLICI SRBIJI, 5. International Conference Sustainable Postharvest and Food Technologies INOPTEP and National Conference Processing and Energy in Agriculture PTEP, Vršac: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, Novi Sad, 23-28 April, 2017, ISBN 978-86-7520-393-3
4. Doroslovački R., Šešlija D., Vilotić D., Kovačević I., Kolaković S., Katić V.: FTN i potrebe nastave IT sektora, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 104-108, ISBN 978-86-7892-904-5
5. Katić V., Doroslovački R., Vilotić D., Kovačević I., Šešlija D., Kolaković S.: Evaluacija nastave master studija na osnovu profesorskih ocena studenata i vice versa, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 66-69, ISBN 978-86-7892-904-5
6. Kolaković S., Doroslovački R., Katić V., Vilotić D., Kovačević I., Šešlija D., Mučenski V., Peško I.: Contribution of the Faculty of Technical Sciences to the economic benefits of New Science & Technology Park, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 315-318, ISBN 978-86-7892-904-5
7. Konjović Z., Kovačević I., Simeunović N., Milašinović Lj., Radumilo B., Stanislavljević A.: Mogućnosti razvoja doktorskih studija po evropskim modelima, 23. Trendovi razvoja TREND, Zlatibor: FTN, 22-24 Februar, 2017, pp. 70-73, ISBN 978-86-7892-904-5
8. Kovačević I., Doroslovački R., Katić V., Vilotić D., Kolaković S., Šešlija D., Zivlak V.: Unapređivanje vrsta i nivoa studija u visokom obrazovanju, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 256-260, ISBN 978-86-7892-904-5
9. Matić P., Gecić M., Marčetić D., Popović V., Oros Đ.: Matematički model visokobrzinskog sinhronog motora sa permanentnim magnetima sa uvažanim gubicima u gvožđu, 1. Energetska efikasnost ENEF, Banja Luka: Univerzitet u Banjoj Luci, Elektrotehnički fakultet, 25-26 Septembar, 2015, pp. 56-63, ISBN ISBN 978-99955-46-27
10. Popović V., Gecić M., Oros Đ., Kulić F., Marčetić D.: Projektovanje strujnog kontrolera DC-DC pretvarača pogodnog za regulaciju momenta histerezisne kočnice, 16. Infoteh-Jahorina, Jahorina: Univerzitet u Istočnom Sarajevu, Elektrotehnički fakultet, 22-24 Mart, 2017, pp. 1-6, ISBN 978-99976-710-0-4
11. Popović V., Kukić M., Oros Đ., Varga R., Marčetić D.: Optimalno upravljanje asinhronom mašinom u pogonu električnih vozila, 1. Energetska efikasnost ENEF, Banja Luka: Univerzitet u Banjoj Luci, Elektrotehnički fakultet, 25-26 Septembar, 2015, pp. 49-55, ISBN 978-99955-46-27-4
12. Savić N., Katić V.: Koncept nastavnih aktivnosti realizovan primenom različitih savremenih didaktičkih sredstava na studijskom programu čiste energetske tehnologije, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 291-298, ISBN 978-86-7892-904-5
13. Šešlija D., Doroslovački R., Katić V., Vilotić D., Kovačević I., Kolaković S.: Implementacija i evaluacija udaljenih eksperimenata na Fakultetu tehničkih nauka u Novom Sadu, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 118-125, ISBN 978-86-7892-904-5
14. Vilotić D., Doroslovački R., Kovačević I., Katić V., Šešlija D., Kolaković S., Konjović Z.: Analiza uspešnosti doktorskih akademskih studija na Fakultetu tehničkih nauka, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 77-83, ISBN 978-86-7892-904-5
15. Vujkov B., Dumnić B., Popadić B., Milićević D., Katić V.: Sistemi za konverziju energije morskih talasa u električnu i istraživačke aktivnosti na FTN-u, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad, 19-21 Oktobar, 2017, pp. 1-5, ISBN 978-86-7892-980-9
16. Vukajlović N.: Analiza pogonskih aspekata rada industrijskog pretvarača u situaciji napajanja mašine opterećene teretom velike inercije, 16. Infoteh-Jahorina, Jahorina, 22-24 Mart, 2017, pp. 724-729, ISBN 978-99976-710-0-4

#### Spisak rezultata M71 - Odbranjena doktorska disertacija

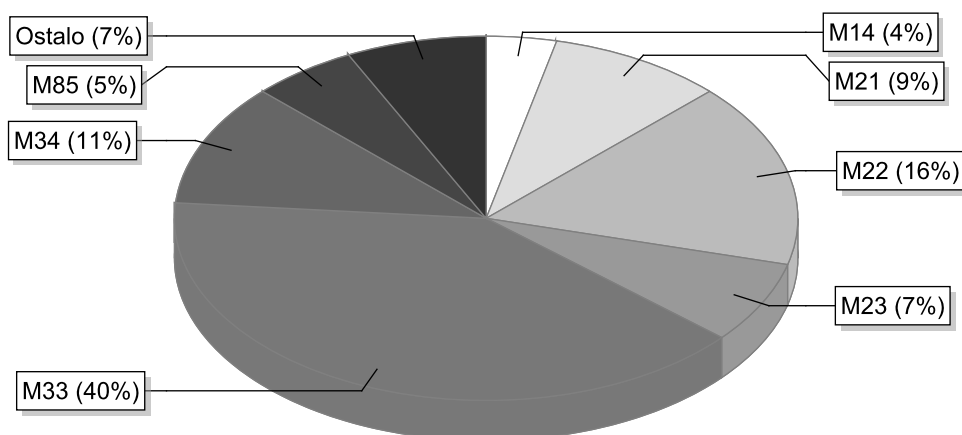
1. Reljić D.: Otkrivanje kvara rotora kaveznog asinhronog motora primenom tehnika analize terminalnih veličina, Novi Sad, Fakultet tehničkih nauka, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za elektroniku

Zbirni pregled naučno istraživačkih rezultata u 2017. 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
Rad u vrhunskom međunarodnom časopisu	M21	5
Rad u istaknutom međunarodnom časopisu	M22	9
Rad u međunarodnom časopisu	M23	4
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	22
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	6
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	3





## PRODUKCIJA - REZULTATI

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

1. Lazarević Z., Gilić M., Petrović M., Romčević N., Sekulić D., Jovalekić Č., Ivanovski V.: "Study of nanodimensional spinel Ni<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> ferrite prepared by mechanochemical synthesis" in Proceedings of the IV Advanced Ceramics and Applications, ed. by William E. Lee et. al, Springer–Atlantis Press, 2017, str. 187-202, ISBN 978–94–6239–212–0
2. Sekulić D., Lazarević Z., Romčević N.: "Structural, electrical conduction and dielectric studies of mechano-synthesized manganese nanoferrite" in Proceedings of the IV Advanced Ceramics and Applications, ed. by William E. Lee et. al, Springer–Atlantis Press, 2017, str. 155-171, ISBN 978-94-6239-212-0

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Bajić J., Marković M., Joža A., Vasić D., Ninkov T.: Design calibration and characterization of a robust low-cost fiber-optic 2D deflection sensor, *Sensors and Actuators A: Physical*, 2017, Vol. 267, pp. 278-286, ISSN 0924-4247, UDK: <https://doi.org/10.1016/j.sna.2017.10.014>
2. Joža A., Bajić J., Manojlović L., Milosavljević V., Batinić B., Laković N., Živanov M.: Design considerations and performance analysis of dual photodetector system for reliable laser wavelength and power monitoring, *Sensors and Actuators A: Physical*, 2017, Vol. 261, pp. 14-23, ISSN 0924-4247
3. Satarić M., Sekulić D., Zdravković S., Ralević N.: A biophysical model of how  $\alpha$ -tubulin carboxy-terminal tails tune kinesin-1 processivity along microtubule, *Journal of Theoretical Biology*, 2017, Vol. 420, pp. 152-157, ISSN 0022-5193
4. Simić M., Manjakkal L., Zaraska K., Stojanović G., Ravinder D.: TiO<sub>2</sub>-Based Thick Film pH Sensor, *IEEE Sensors Journal*, 2017, Vol. 17, No 2, pp. 248-255, ISSN 1530-437X
5. Šiljegović M., Lukić-Petrović S., Petrović D., Sekulić D., Štrbac G., Skuban F.: Dielectric and structural characteristics of the Bi–As<sub>2</sub>S<sub>3</sub> quasibinary chalcogenides, *Journal of Non-crystalline Solids*, 2017, Vol. 457, pp. 152-156, ISSN 0022-3093

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Babković K., Damjanović M., Nađ L., Kisić M., Stojanović G.: Inductive Displacement Sensor of Novel Design Printed on Polyimide Foil, *IEEE Transactions on Magnetics*, 2017, Vol. 53, No 4, pp. 1-4, ISSN 0018-9464
2. Čajko K., Sekulić D., Lukić-Petrović S., Šiljegović M., Petrović D.: Temperature-dependent electrical properties and impedance response of amorphous Ag<sub>x</sub>(As<sub>40</sub>S<sub>30</sub>Se<sub>30</sub>)<sub>100-x</sub> chalcogenide glasses, *Journal of Materials Science: Materials in Electronics*, 2017, Vol. 28, No 1, pp. 120-128, ISSN 0957-4522
3. Kisić M., Blaž N., Babković K., Živanov Lj., Damjanović M.: Detection of seat occupancy using a wireless inductive sensor, *IEEE Transactions on Magnetics*, 2017, Vol. 53, No 4, ISSN 0018-9464, UDK: 10.1109/TMAG.2016.2632862
4. Kisić M., Blaž N., Živanov Lj., Damjanović M.: Heterogeneous Integrated Wireless Displacement Sensor, *IEEE Transactions on Magnetics*, 2017, Vol. 53, No 11, pp. 1-4, ISSN 0018-9464, UDK: 10.1109/TMAG.2017.2712907
5. Lazarević Z., Jovalekić Č., Gilić M., Valentin I., Umićević A., Sekulić D., Romčević N.: Yttrium orthoferrite powder obtained by the mechanochemical synthesis, *Science of Sintering*, 2017, Vol. 49, No 3, pp. 277-284, ISSN 0350-820X
6. Milutinov M., Nikolić M., Luković S., Blaž N., Labus N., Aleksić O., Živanov Lj.: Influence of starting powder milling on magnetic properties of Mn-Zn ferrite, *Processing and Application of Ceramics*, 2017, Vol. 11, No 2, pp. 160-169, ISSN 1820-6131
7. Nikolić M., Sekulić D., Vasiljević Z., Luković M., Pavlović V., Aleksić O.: Dielectric properties, complex impedance and electrical conductivity of Fe<sub>2</sub>TiO<sub>5</sub> nanopowder compacts and bulk samples at elevated temperatures, *Journal of Materials Science: Materials in Electronics*, 2017, Vol. 28, No 6, pp. 4796-4806, ISSN 0957-4522
8. Samardžić N., Bajac B., Srdić V., Stojanović G.: Conduction mechanisms in multiferroic multilayer BaTiO<sub>3</sub>/NiFe<sub>2</sub>O<sub>4</sub>/BaTiO<sub>3</sub> memristors, *Journal of Electronic Materials*, 2017, ISSN 0361-5235, UDK: 10.1007/s11664-017-5618-2
9. Žlebić Č., Milutinov M., Živanov Lj., Marić A., Blaž N., Radosavljević G.: Influence of sintering temperature on the magnetic properties of LTCC ferrite tape for multilayer component applications, *Journal of Materials Science: Materials in Electronics*, 2017, ISSN 0957-4522, UDK: <https://doi.org/10.1007/s10854-017-8364-6>

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

1. Juhas A., Dautović S., Novak L.: On optimal truncated biharmonic current waveforms for class-F and inverse class-F power amplifiers Article ID 1390295, 19 pages, 2017. doi:10.1155/2017/1390295, Mathematical Problems in Engineering, 2017, Vol. 2017, ISSN 1024-123X
2. Pajkanović A., Videnović-Mišić M., Stojanović G.: Design and Characterization of a 130 nm CMOS Ultra-Wideband Low-Noise Amplifier, Informacije MIDEM - Journal of microelectronics, electronic components and materials, 2017, Vol. 47, No 2, pp. 59-70, ISSN 0352-9045
3. Požega E., Nikolić P., Bernik S., Gomidželović L., Labus N., Radovanović M., Marjanović S.: Synthesis and investigation of BiSbTeSe single crystal doped with Zr produced using Bridgman method, Revista de Metalurgia, 2017, Vol. 53, No 3, ISSN 0034-8570
4. Vasiljević D., Brajković D., Krklješ D., Obrenović B., Stojanović G.: Testing and Characterization of Multilayer Force Sensing Resistors Fabricated on Flexible Substrate, Informacije MIDEM - Journal of microelectronics, electronic components and materials, 2017, Vol. 47, No 1, pp. 40-48, ISSN 0352-9045

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

1. Samardžić N.: Resistive Switching Effects in Nanomaterials Based Memristors, 25. Telekomunikacioni forum TELFOR, Beograd, 21-22 Novembar, 2017

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

1. Batinić B., Rodić D., Laković N., Gostimirović M., Kulundžić N.: Acquisition of current impulses in electrical discharge machining, 2. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC, Novi Sad: IEEE, 31-1 Maj, 2017, pp. 37-40, ISBN 978-1-5386-0866-1
2. Blaž N., Kisić M., Živanov Lj., Damjanović M.: Displacement sensor fabricated by 3D additive manufacturing, 40. International Spring Seminar on Electronics Technology, Sofia, 10-14 Maj, 2017, pp. 1-4
3. Blaž N., Luković M., Nikolić M., Vasiljević Z., Luković S., Aleksić O.: Impedance response of pseudobrookite thick films with a sandwich configuration, 40. International Spring Seminar on Electronics Technology, Sofia, 10-14 Maj, 2017, pp. 1-5
4. Chirasatitsin S., Kojić S., Stojanović G.: Optimization of microchannel fabrication using xurographic technique for microfluidic chips, 11. International Scientific Conference ETIKUM, Novi Sad: FACULTY OF TECHNICAL SCIENCES, 6-8 Decembar, 2017, pp. 13-16, ISBN 978-86-6022-00-68
5. Ivetić T., Sekulić D., Papan J., Petrović D., Lukić-Petrović S.: Baselines in technology of obtaining the nanocrystalline titanium-tin-oxide ceramics, 7. International Conference Industrial Engineering and Environmental Protection - IIZS, Zrenjanin: Technical faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, 12-13 Oktobar, 2017, pp. 59-63, ISBN 978-86-7672-303-4
6. Joža A., Bajić J., Laković N., Batinić B., Milosavljević V., Mihajlović Ž., Rajs V.: Simultaneous Characterization of Bidirectional Coupler and Semiconductor Photodetectors Spectral Properties, 25. Telekomunikacioni forum TELFOR, Beograd: Društvo za telekomunikacije Beograd i Akademska misao Beograd, 21-22 Novembar, 2017, pp. 900-903, ISBN 978-1-5386-3072-3
7. Kisić M., Blaž N., Žlebić Č., Živanov Lj., Huđik A.: Flexible polyimide based capacitive displacement sensor, 40. International Spring Seminar on Electronics Technology, Sofia, 10-14 Maj, 2017, pp. 1-4
8. Kisić M., Blaž N., Žlebić Č., Živanov Lj., Nikolić I.: Fully ink-jet printed capacitive pressure sensor, 40. International Spring Seminar on Electronics Technology, Sofia, 10-14 Maj, 2017, pp. 1-4
9. Laketa J., Radovanović M., Kojić T., Stojanović G., Vukmirović S., Mikov M., Stamenković Z.: Determination of electrical parameters of dried blood spot samples with different concentration of methotrexate, 1. IEEE East-West Design & Test Symposium (EWDTS), Novi Sad, 29-2 Septembar, 2017
10. Marić A., Radosavljević G., Blaž N., Živanov Lj.: Influence of fabrication parameters on performance of LTCC ferrite core solenoid inductor, 40. International Spring Seminar on Electronics Technology, Sofia, 10-14 Maj, 2017, pp. 1-6, ISBN DOI: 10.1109/ISSE.20
11. Mezei I.: Cross-platform GUI for Educational Microcomputer Designed in Qt, 15. IEEE East-West Design & Test Symposium - EWDTS, Novi Sad, 29-2 Septembar, 2017, pp. 159-162, ISBN 978-1-5386-3298
12. Mihajlović Ž., Milosavljević V., Joža A., Damjanović M.: Modular WSN Node for Environmental Monitoring with Energy Harvesting Support, 2. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC, Novi Sad: RT-RK Institute for Computer Based Systems, 31-1 Maj, 2017, pp. 47-50
13. Obrovski B., Bajić J., Mihajlović I., Vojinović-Miloradov M., Batinić B., Adamović D., Rajs V., Novaković M.: Determination of Nitrite in Surface water by Color Fiber Optic Sensor, 9. Eastern European Young Water

Professionals Conference, Budimpešta: Budapest University of Technology and Economics, 24-27 Maj, 2017, pp. 146-151

14. Obrovski B., Bajić J., Mihajlović I., Vojinović-Miloradov M., Batinić B., Živančev (Šenk) N., Rajs V.: Monitoring of orthophosphate in river Danube, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS ICET 2017, University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-3, ISBN 978-86-7892-934-2
15. Obrovski B., Bajić J., Mihajlović I., Vojinović-Miloradov M., Šunjević M., Bežanović V., Adamović D., Rajs V.: MONITORING OF INORGANIC CHEMICAL PARAMETERS IN RIVER DANUBE, NOVI SAD, SERBIA, 23. International Symposium on Analytical and Environmental Problems (ISAEP), Szeged: University of Szeged, Department of Inorganic and Analytical Chemistry, 9-10 Oktobar, 2017, pp. 265-268, ISBN 978-963-306-563-1
16. Radovanović M., Kojić S., Vasiljević D., Samardžić N., Crespo F., Cargou S., Velje Casquillas G., Chirasatitsin S., Stojanović G.: Performances comparison of microfluidic passive mixer fabricated in low-cost and PDMS technologies, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017
17. Rakanović D., Struharik R.: Implementation of Application Specific Instruction-set Processor for the Artificial Neural Network Acceleration using LISA ADL, 1. IEEE East-West Design & Test Symposium (EWDTS), Novi Sad, 29-2 Septembar, 2017, pp. 121-125, ISBN 978-1-5386-3298-7
18. Samardžić N., Bajić J., Bajac B., Srdić V., Stojanović G.: Photoresistive switching of multiferroic thin film memristors, 5. International Conference on Memristive Materials, Devices and Systems MEMRISYS, Athens, 3-6 April, 2017
19. Simić M., Babić Z., Risojević V., Stojanović G.: A novel approach for parameter estimation of Fricke-Morse model using Differential Impedance Analysis, 1. International Conference on Biological and Medical Engineering – CMBEIH, Sarajevo, 16-18 Mart, 2017, pp. 487-494
20. Simić M., Stojanović G.: Compact Electronic System for Complex Impedance Measurement and its Experimental Verification, 23. European Conference on Circuit Theory and Design, ECCTD, Catania, 4-6 Septembar, 2017
21. Struharik R., Vukobratović B.: AIScale - A Coarse Grained Reconfigurable CNN Hardware Accelerator, 1. IEEE East-West Design & Test Symposium (EWDTS), Novi Sad, 29-2 Septembar, 2017, pp. 474-482, ISBN 978-1-5386-3298-7
22. Vasiljević D., Stojanović G., Radovanović M., Kojić S., Medić D., Pivaš B., Šorđan R.: PCB sensor for bacteria detection in saline, 1. IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes (IMWS-AMP), Pavia, 20-22 Septembar, 2017

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Čajko K., Sekulić D., Lukić-Petrović S., Šiljegović M., Petrović D.: Correlation of electrical and structural properties of semiconducting glassy chalcogenide alloys Ag-As<sub>40</sub>S<sub>30</sub>Se<sub>30</sub>, 8. MATERIALS, Aveiro, 9-12 April, 2017, pp. 303-303
2. Đalović I., Chenb Y., Šeremešić S., Jelić M., Ćirić V., Milošev D.: Crop adaption strategies for phosphorus-use efficiency improvement, 2. NSoil2017, 2nd International and 14th National Congress of Soil Science Society of Serbia "Solutions and Projections for Sustainable Soil Management", Faculty of Agriculture Novi Sad, Novi Sad: Poljoprivredni fakultet Novi Sad, 25-28 Septembar, 2017, pp. 68-68, ISBN 978-86-7520-410-7, UDK: 631.4(048.3)
3. Obrovski B., Bajić J., Vojinović-Miloradov M., Mihajlović I., Batinić B., Rajs V.: Fiber optic color sensor for determination of chemical parameters in different water bodies, 27. SETAC Europe Annual Meeting, Brisel, 7-11 Maj, 2017, pp. 387-388
4. Obrovski B., Mihajlović I., Bajić J., Vojinović-Miloradov M., Adamović D., Bežanović V., Rajs V.: Evaluation of river Danubecontamination by wastewater in Novi Sad, Serbia, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Slovak University of Technology, 20-22 Septembar, 2017, pp. 45-45, ISBN 978-80-227-4731-8
5. Savić S., Kojić S., Katona J., Vukmirović J., Dubourg G., Niarchos G., Radović M.: Inkjet printing of TiO<sub>2</sub> nanoparticles on flexible substrates, 19. Annual Conference-YUCOMAT, Herceg Novi, 4-8 Septembar, 2017, pp. 60-60
6. Sekulić D., Samardžić N., Joža A., Satarić M.: New insight into the role of C-terminal tails in intracellular transport along microtubules, 1. Biology for Physics Conference: Is there new Physics in Living Matter, Barcelona, 15-18 Januar, 2017, pp. 45-46, ISBN 978-86-915627-4-8

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Rajs V., Despotović Ž.: REGULACIJA SAGOREVANJA ČVRSTOG GORIVA NA OSNOVU SJAJA PLAMENA, Energija, Ekonomija, Ekologija, 2017, No 3-4, pp. 211-215, ISSN 0354-8651, UDK: 662.611

Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Batinić B., Rodić D., Gostimirović M., Kulundžić N., Laković N.: MONITORING OF THE DISCHARGE CURRENT BY HALL-EFFECT SENSOR, Journal of Production Engineering, 2017, Vol. 20, No 1, pp. 39-42, ISSN 1821-4932

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

1. Obrovski B., Mihajlović I., Bajić J., Vojinović-Miloradov M., Bežanović V., Rajs V.: Procena kontaminacije reke Dunav na ispustima otpadne vode u Novom Sadu, 11. ETIKUM, Novi Sad: Fakultet Tehničkih Nauka, Departman za proizvodno mašinstvo, 6-8 Decembar, 2017, pp. 197-201, ISBN 978-86-6022-00-68

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

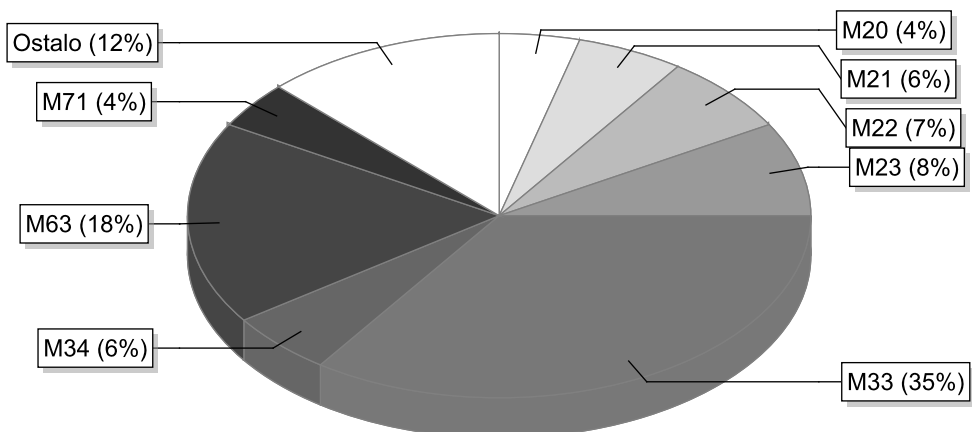
1. Đugova A., Radić J., Videnović-Mišić M., Nađ L.: Integrisani širokopojasni nisko-šumni pojačavač namenjen za rad u frekvencijskom opsegu od 3,1 do 5 GHz, 2017
2. Juhas A., Dautović S., Novak L.: Metoda za modelovanje signala struje u funkciji ugla provođenja sa primenom u analizi klase-F i inverzne klase-F pojačavača snage, 2017
3. Žlebić Č., Blaž N., Milutinov M., Živanov Lj., Damjanović M.: Прототип подешљивог феритног индуктора коришћењем једносмерне струје, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za telekomunikacije i obradu signala

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	2
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	6
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	25
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	4
Rad u časopisu nacionalnog značaja	M52	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	13
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
Odbranjena doktorska disertacija	M71	3
Bitno poboljšani postojeći proizvod ili tehnologija	M84	1



## PRODUKCIJA - REZULTATI

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

1. Bajić D., Dimic G., Lončar-Turukalo T., Milovanovic B., Japundzic-Zigon N.: A Descriptive Approach to Signal Processing, in: ECG Time Series Variability Analysis: Engineering and Medicine, Editors Herbert Jelinek, Ahsan Khandoker, David Cornforth, Chapter 3, Boca Raton, CRC Press, 2017, ISBN 9781482243475
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Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Antić A., Popović B., Krstanović L., Obradović R., Milošević M.: Novel Texture-Based Descriptors for Tool Wear Condition Monitoring, Mechanical Systems and Signal Processing, 2017, Vol. 98, pp. 1-15, ISSN 0888-3270
2. Petković M., Đorđević G., Karagiannidis G., Milovanović G.: Performance of SIM-MDPSK FSO systems with hardware imperfections, IEEE Transactions on Wireless Communications, 2017, Vol. 16, No 8, pp. 5442-5451, ISSN 1536-1276
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Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Atanacković T., Janev M., Pilipović S., Zorica D.: Euler-Lagrange equations for Lagrangians containing complex order fractional derivatives, Journal of Optimization Theory and Applications, 2017, Vol. 174, pp. 256-275
2. Kovačević M., Stojaković M., Y. F. Tan V.: Zero-Error Capacity of P-ary Shift Channels and FIFO Queues, IEEE Transactions on Information Theory, 2017, Vol. 63, No 12, pp. 7698-7707, ISSN 0018-9448
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Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Kovačević M., Y. F. Tan V.: Improved Bounds on Sidon Sets via Lattice Packings of Simplices, SIAM Journal on Discrete Mathematics, 2017, Vol. 31, No 3, pp. 2269-2278, ISSN 0895-4801
2. Kovačević M.: On Error Detection in Asymmetric Channels, IEEE Communications Letters, 2017, Vol. 21, No 9, pp. 1933-1936, ISSN 1089-7798
3. Škorić (Ćeranić) T., Mohamoud O., Milovanović B., Japundžić-Žigon N., Bajić D.: Binarized Cross-Approximate Entropy in Crowdsensing Environment, Computers in Biology and Medicine, 2017, Vol. 80, No 1, pp. 137-147, ISSN 0010-4825
4. Šuh J., Bojović Ž., Despotović-Zrakić M., Bogrdanović Z., Labus A.: Designing a course and infrastructure for teaching software-defined networking, DOI: 10.1002/cae.21820, Computer Applications in Engineering Education, 2017, Vol. 25, No 4, pp. 554-567, ISSN 1061-3773
5. Varotsos G., Nistazakis H., Petković M., Đorđević G., Tombras G.: SIMO optical wireless links with nonzero boresight pointing errors over M modeled turbulence channels, Optics Communications, 2017, Vol. 403, pp. 391-400, ISSN 0030-4018

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1. Bojović P., Bojović Ž., Bajić D., Šenk V.: IP Session continuity in heterogeneous mobile networks using Software Defined Networking, Journal of Communications and Networks, 2017, Vol. 19, No 6, pp. 563-568
2. Bojović Ž., Klipa Đ., Šećerov E., Šenk V.: Smart government - from information to smart society, Journal of the Institute of Telecommunications Professionals, 2017, Vol. 11, No 3, pp. 34-39, ISSN 1755-9278
3. Mišković D., Gnjatović M., Štrbac P., Trenkić B., Jakovljević N., Delić V.: Hybrid methodological approach to context-dependent speech recognition, DOI: 10.1177/1729881416687131, International Journal of Advanced Robotic Systems, 2017, Vol. 14, No 1, pp. 1-12, ISSN 1729-8806

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5. Tasić T., Jovanović S., Mohamoud O., Škorić (Ćeranić) T., Japundžić-Žigon N., Bajić D.: Dependency Structures in Differentially Coded Cardiovascular Time Series, *Computational and Mathematical Methods in Medicine*, 2017, Vol. 2017, No 1, pp. 1-17, ISSN 1748-670X
6. Zlokolica V., Krstanović L., Velicki L., Popović B., Janev M., Ralević N., Obradović R., Jovanov Lj., Babin D.: Semiautomatic Epicardial Fat Segmentation Based on Fuzzy c-Means Clustering and Geometric Ellipse Fitting, *Journal of Healthcare Engineering*, 2017, Vol. 2017, pp. 1-12, ISSN 2040 2295

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

1. Delić V., Sečujski M., Jakovljević N., Mišković D.: Assistive character of voice technology, 6. *Speech and Language*, Beograd: IEPSP&LAAC, 13-14 Novembar, 2009, pp. 18-26, ISBN 978-86-89431-24-7
2. Petković M., Đorđević G., Đorđević I.: Analysis of mixed RF/FSO system with imperfect CSI estimation, 19. *International Conference on Transparent Optical Networks (ICTON)*, Girona, 2-6 Jul, 2017

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

1. Kovačević M.: Packings in  $Z^n$  and Their Applications in Coding Theory, 1. *International Seminar on Algebra and Coding Theory (INSACT)*, Changanassery, 8-10 Februar, 2017

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Botić D., Nemeč D., Vujčić S.: Skrivanje topologije i medija menadžment u VoIP mrežama korišćenjem SBC kontrolera, *Infoteh, Jahorina*, 2017, Vol. 16, pp. 191-196, ISSN konferencija, 16. *Infoteh-Jahorina, Jahorina*, 22-24 Mart, 2017, pp. 191-196
2. Gnjatović M., Mišković D., Savić S., Borovac B., Maček N., Trenkić B.: A Novel Modular Architecture for Conversational Robotic Agents, 4. *International Conference on Electrical, Electronic and Computing Engineering IcETRAN*, Kladovo: ETRAN Society, Belgrade, Serbia, 5-8 Jun, 2017, pp. 1-4
3. Gnjatović M., Tasevski J., Mišković D., Savić S., Borovac B., Mikov A., Krasnik R.: Pilot Corpus of Child-Robot Interaction in Therapeutic Setting., 8. *IEEE International Conference on Cognitive Infocommunications (CogInfoCom)*, Debrecen: IEEE (Institute of Electrical and Electronics Engineers), 11-14 Septembar, 2017, pp. 253-257, ISBN 978-1-5386-1264-4/17
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10. Jokić I., Jokić S., Delić V., Perić Z.: Towards Enabling Measurement of Similarity of Acoustical Environments Using Mobile Devices, 13. *International Conference on Advanced Technologies, Systems and Services in Telecommunications - TELSIKS*, Niš: Institute of Electrical and Electronics Engineers (IEEE), and Faculty of

Electronic Engineering (FEE), University of Niš, Serbia, 18-20 Oktobar, 2017, pp. 195-198, ISBN 978-1-5386-1798-4

11. Kovačević M., Y. F. Tan V.: Coding for the Permutation Channel with Insertions, Deletions, Substitutions, and Erasures, 50. IEEE International Symposium on Information Theory ISIT, Aachen: IEEE, 25-30 Jun, 2017, pp. 1933-1937, ISBN 978-1-5090-4096-4
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15. Pakoci E., Popović B., Pekar D.: Language Model Optimization for a Deep Neural Network Based Speech Recognition System for Serbian, 19. International Conference on Speech and Computer, Hatfield: Springer, 12-16 Septembar, 2017, pp. 483-492, ISBN 978-3-319-66428-6
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17. Petković M., Đorđević G., Marjanović Z.: Analytical approach in evaluation of outage probability of DF based hybrid satellite-terrestrial FSO cooperative system, 15. TELSIS - International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services, Niš: Institute of Electrical and Electronics Engineers (IEEE), 18-20 Oktobar, 2017
18. Petković M., Đorđević G.: Average BER of dual-branch FSO system employing SIM-BPSK influenced by Malaga atmospheric turbulence with pointing errors, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo: ETRAN Society, Serbia, 5-8 Jun, 2017
19. Popović B., Pakoci E., Pekar D.: End-to-End Large Vocabulary Speech Recognition for the Serbian Language, 19. International Conference on Speech and Computer, Hatfield: Springer, 12-16 Septembar, 2017, pp. 343-352, ISBN 978-3-319-66428-6
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23. Suzić S., Delić T., Pekar D., Ostojić V.: Novel alignment method for DNN TTS training using HMM synthesis models, 15. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica, 2017, pp. 271-276, ISBN 978-1-5386-3854-5
24. Škorić (Ćeranić) T., Bajić D., Mohamoud O., Milovanović B., Japundžić-Žigon N.: BINARIZOVANA APROKSIMATIVNA ENTROPIJA DIFERENCIJALNO KODOVANIH BIOMEDICINSKIH SIGNALA, 16. Naučno-stručni simpozijum INFOTEH-JAHORINA, Jahorina, 22-24 Mart, 2017, pp. 217-220, ISBN 978-99976-710-0-4
25. Škorić (Ćeranić) T., Bajić D., Trpovski Ž., Pantelić D., Jelenković B., Krmpot A., Rabasović M.: NOISE REDUCTION FROM LASER SCANNING TWO-PHOTON MICROSCOPY IMAGES IN WAVELET DOMAIN, 16. Naučno-stručni simpozijum INFOTEH-JAHORINA, Jahorina, 22-24 Mart, 2017, pp. 617-620, ISBN 978-99976-710-0-4

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Brkljač B., Lugonja P., Minić V., Brdar S., Crnojević V.: Data enrichment of Sentinel-2 and Landsat-8



- surface-reflectance measurements for agriculture oriented services, 3. Earth Observation Open Science Conference, European Space Agency (ESA), Rim: European Space Agency (ESA), 25-28 Septembar, 2017
2. Brkljač B., Lugonja P., Minić V., Panić M., Marko O., Brdar S., Crnojević V.: Availability of satellite based digital surface models – Comparison of ALOS-AW3D and ASTER-GDEM data over Serbia, 8. WorldCover Conference, European Space Agency (ESA), GEO, FAO, and EU, Rim: European Space Agency (ESA), 14-16 Mart, 2017
  3. Lugonja P., Brkljač B., Ćirić V., Benka P., Crnojević V.: Satellite based estimation of the arable topsoil texture at regional scale using Sentinel-2 data, 2. NSoil2017, 2nd International and 14th National Congress of Soil Science Society of Serbia "Solutions and Projections for Sustainable Soil Management", Faculty of Agriculture Novi Sad, Novi Sad: Poljoprivredni fakultet u Novom Sadu, 25-28 Septembar, 2017
  4. Lugonja P., Marko O., Panić M., Brkljač B., Brdar S., Crnojević V.: Sentinel-2 and Landsat-8 for high-resolution land cover mapping in sustainable agriculture, 8. WorldCover Conference, European Space Agency (ESA), GEO, FAO, and EU, Rim: European Space Agency (ESA), 14-16 Mart, 2017

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

1. Delić T., Sečujski M., Suzić S.: A Review of Serbian Parametric Speech Synthesis Based on Deep Neural Networks DOI: 10.5937/telfor1701032D, TELFOR Journal, 2017, Vol. 9, No 1, pp. 32-37, ISSN 1821-3251
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#### Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini

1. Brkljač B., Lugonja P., Trpovski Ž., Crnojević V.: Analiza prostorne i vremenske promenljivosti upadnog ugla sunčevog zračenja na primeru Landsat-8 satelitskih snimaka, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: FTN-Novı Sad, ETF - Beograd, EF-Niš, 22-25 Novembar, 2017, pp. 81-84, ISBN 978-86-7892-993-9
2. Delić T., Suzić S., Ostrogonac S., Kašterović S., Pekar D.: Multi-style Statistical Parametric TTS, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: Fakultet tehničkih nauka, Novi Sad, 22-25 Novembar, 2017, ISBN 978-86-7892-993-9, UDK: 004.932/.934(082)
3. Despotović D., Božanić N., Lončar-Turukalo T.: Pattern mining in surrogate neural data, 11. DOGS, Digitalna obrada govora i slike, Novi Sad, 22-25 Novembar, 2017
4. Gavrić I., Nemeć D.: IEC 61850 standard za komunikacione mreže u elektroenergetici - razlozi uvođenja i osnovni koncepti, 23. YU INFO, Kopaonik: Društvo za informacione sisteme i računarske mreže, 12-15 Mart, 2017, pp. 177-181, ISBN 978-86-85525-20-9
5. Grbić T., Medić S., Duraković N., Gavrilov T., Delić T., Jakovljević N.: Pseudoverovatnoća i intervalno-vrednosna pseudoverovatnoća, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: Faculty of Technical Sciences, University of Novi Sad, 22-25 Novembar, 2017, pp. 117-120
6. Jakovljević N., Černjanski R., Mišković D., Delić V.: Aplikacija za unos teksta pomoću glasa na telefonu sa operativnim sistemom Android, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: Fakultet tehničkih nauka, 22-25 Novembar, 2017, pp. 41-44, ISBN 978-86-7892-993-9
7. Lazić I., Lončar-Turukalo T., Korolija Crkvenjakov D., Šveljo O.: Analitički pristup utvrđivanju autorstva na ikonostasu crkve Svete Trojice u Budimu, 11. DOGS, Digitalna obrada govora i slike, Novi Sad, 22-25 Novembar, 2017, pp. 85-88, ISBN 978-86-7892-993-9
8. Ostojić V., Starčević Đ., Petrović V.: Rekurzivna anizotropna difuzija, 11. DOGS, Digitalna obrada govora i slike, Novi Sad, 22-25 Novembar, 2017, pp. 113-116, ISBN 978-86-7892-993-9
9. Pakoci E., Popović B., Pekar D.: Fast Sequence-Trained Deep Neural Network Models for Serbian Speech Recognition, 11. DOGS, Digitalna obrada govora i slike, Novi Sad, 22-25 Novembar, 2017, pp. 25-28, ISBN 978-86-7892-993-9
10. Sečujski M., Ostrogonac S., Suzić S., Pekar D.: Reprodukcion rečeničnog naglaska u sintezi govora na američkom engleskom jeziku, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: Fakultet tehničkih nauka, Novi Sad, 22-25 Novembar, 2017, pp. 9-12, ISBN 978-86-7892-993-9, UDK: 004.932/.934(082)
11. Starčević Đ., Ostojić V., Petrović V.: Automatsko određivanje ugla rotacije polja kolimacije, 11. DOGS, Digitalna obrada govora i slike, Novi Sad, 22-25 Novembar, 2017, pp. 109-112, ISBN 978-86-7892-993-9
12. Starčević Đ., Ostojić V., Petrović V.: Homomorfno izjednačavanje statistika radi spajanja radiografskih snimaka, 11. DOGS, Digitalna obrada govora i slike, Novi Sad, 22-25 Novembar, 2017, pp. 105-108, ISBN

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

1. Papić M., Papić V., Lončar-Turukalo T., Mikov I., Cigić T.: Prognostički faktori za povratak na posao nakon lumbalne diskektomije., 13. Kongres medicine rada Srbije sa međunarodnim učešćem, Zlatibor: časopis Svet rada, 13-16 Septembar, 2017, pp. 589-590, ISBN ISSN 1451-7841, UDK: 331.4:613.6.00113(497.1)

Spisak rezultata M71 - Odbranjena doktorska disertacija

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2. Mišković D.: Kontekstno zavisno prepoznavanje govora u interakciji između čoveka i mašine, Novi Sad, Fakultet tehničkih nauka, 2017
3. Škorić (Ćeranić) T.: Automatsko određivanje i analitička provera parametara uzajamne entropije kardiovaskularnih vremenskih nizova, 2017

Spisak rezultata M84 - Bitno poboljšan postojeći proizvod ili tehnologija

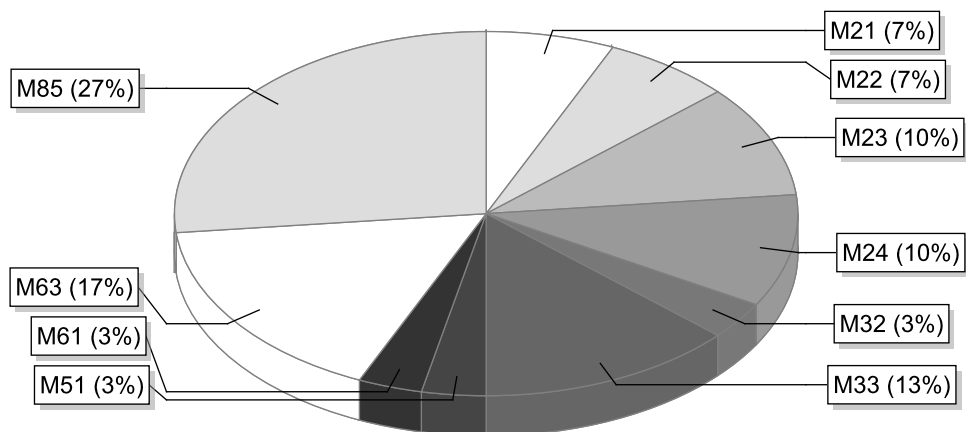
1. Popović B., Pakoci E., Pekar D., Delić V.: Poboljšanje performansi sistema za glasovno pozivanje (VoiceDial) primenom Chain dekodera Link: <http://www.ftn.uns.ac.rs/995788631>, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za električna merenja

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	3
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	4
Rad u vodećem časopisu nacionalnog značaja	M51	1
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	8



## PRODUKCIJA - REZULTATI

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

1. Kušljević M., Tomić J., Poljak P.: Maximally Flat-Frequency-Response Multiple-Resonator-Based Harmonic Analysis, IEEE Transactions on Instrumentation and Measurement, 2017, Vol. 66, No 12, pp. 3387-3398, ISSN 0018-9456, UDK: DOI: 10.1109/TIM.2017.2751799
2. Urekar M., Pejić D., Vujičić V., Avramov-Zamurović S.: Accuracy improvement of the stochastic digital electrical energy meter, Measurement, 2017, Vol. 98, pp. 139-150, ISSN 0263-2241

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

1. Urekar M., Sovilj P.: EEG dynamic noise floor measurement with stochastic flash A/D converter, Biomedical Signal Processing and Control, 2017, Vol. 38, pp. 337-345, ISSN 1746-8094
2. Župunski V., Jevtić R., Spasić Jokić V., Župunski Lj., Lalošević (Telečki) M., Ćirić M., Ćurčić Ž.: Sampling Error in Relation to Cyst Nematode Population Density Estimation in Small Field Plots, Journal of Nematology, 2017, Vol. 49, No 2, pp. 150-155, ISSN 0022-300X

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Beljić Ž., Vujičić V., Pejić D., Sokola M., Mitrović Z., Sovilj P.: Grid Fundamental Harmonic Measurement in Presence of Gaussian Frequency Deviation Using 2-bit Flash A/D Converter, Tehnicki vjesnik - Technical Gazette, 2017, Vol. 24, No 2, pp. 481-488, ISSN 1330-3651
2. Sovilj P., Vujičić B., Sokola M., Pejić D., Beljić Ž., Mitrović Z.: Stochastic Measurement of Noise True RMS Using 2-bit Flash A/D Converters, Tehnicki vjesnik - Technical Gazette, 2017, ISSN 1330-3651
3. Štrbac B., Radlovački V., Spasić Jokić V., Delić M., Hadžistević M.: The Difference Between GUM and ISO/TC 15530-3 Method to Evaluate the Measurement Uncertainty of Flatness by a CMM, MAPAN - Journal of Metrology Society of India, 2017, Vol. 32, No 4, pp. 251-257, ISSN 0970-3950, UDK: DOI 10.1007/s12647-017-0227-3

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

1. Beljić Ž., Ličina B., Sovilj P., Pejić D., Vujičić V., Vujičić B.: Measurement of Definite Integral of Sinusoidal Signal Absolute Value Third Power Using Digital Stochastic Method, Serbian Journal of Electrical Engineering, 2017, Vol. 14, No 1, pp. 85-98, ISSN 1451-4869, UDK: 620.91:621.317
2. Novaković Đ., Sovilj P., Gazivoda N.: Multisensory Platform Based on NEC Protocol, Serbian Journal of Electrical Engineering, 2017, Vol. 14, No 1, pp. 23-33, ISSN 1451-4869, UDK: 004.7:621.398]:621.317
3. Urekar M., Gazivoda N.: The Transfer Voltage Standard for Calibration Outside of a Laboratory, Serbian Journal of Electrical Engineering, 2017, Vol. 14, No 1, pp. 99-111, ISSN 1451-4869, UDK: 621.3:616.83

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

1. Antić B.: Randomness in Electric Component Modelling, 1. IEEE East-West Design & Test Symposium (EWDTS), Novi Sad: IEEE, 29-2 Septembar, 2017

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

1. Kušljević M., Tomić J., Poljak P.: Group-Delay-Controlled Multiple-Resonator-Based Harmonic Analysis, 19. International Symposium POWER ELECTRONICS Ee, Novi Sad, 19-21 Oktobar, 2017, UDK: DOI: 10.1109/PEE.2017.8171696
2. Maljković N., Pnatović S., Mitrović J.: Human-machine interface via EMG signals derived from EEG measurement device, 1. International Conference on Biological and Medical Engineering – CMBEBIH, Sarajevo: Springer, 16-18 Mart, 2017, pp. 516-520, ISBN 1680-0737
3. Poljak P., Frantilović M., Smiljanić M., Lazić Ž., Jokić I., Ranđelović D., Mitrović Z.: A Measurement Setup Enabling Automatic Characterization of Silicon Piezoresistive MEMS Pressure Sensors, 34. International Semiconductor Conference CAS, Sinaia: IEEE, 17-19 Oktobar, 2011, UDK: 10.1109/SMICND.2017.8101211
4. Urekar M., Vujičić V.: Optimal Resolution of a Flash ADC for the High Precision Electrical Energy Stochastic Digital Measurement Method, 17. IEEE International Conference on Smart Technologies IEEE EUROCON, Ohrid: IEEE EUROCON, 5-8 Jul, 2017, pp. 832-837, ISBN 978-1-5090-3842-8

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

1. Davidović D., Mijušković S., Mitrović Z., Sovilj P., Vujičić V.: Optimalni redundantni merni sistem za nadzor tokova električne snage i energije, Energija, Ekonomija, Ekologija, 2017, Vol. 1, No 1-2, pp. 94-101, ISSN 0354-8651, UDK: 620.9

Spisak rezultata M61 - Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini

1. Urekar M., Gazivoda N., Đorđević-Kozarov J., Bulat M., Sovilj P.: Precizni kompozitni ommetar za merenje industrijskih strujnih šantova na  $m\Omega$  opsegu, 2. Merno-informacione tehnologije MIT, Novi Sad: Fakultet tehničkih nauka, 8-9 Decembar, 2017, ISBN 978-86-6022-019-8

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

1. Mirković S., Pejić D., Urekar M., Vujičić B., Novaković Đ.: Unapređenje postojeće metode asinhronog uzorkovanja pri određivanju RMS vrednosti, 61. ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku, Kladovo: Društvo za ETRAN, 5-8 Jun, 2017, pp. 1-6, ISBN 978-86-7466-692-0
2. Novaković Đ., Sovilj P., Pejić D., Urekar M., Gazivoda N.: MERENJE U KONCEPTU INTERNET OF THINGS I HEXIWEAR MULTISENZORSKA PLATFORMA, 4. International Conference on Electrical, Electronic and Computing Engineering IcETLAN, Kladovo: ETRAN, 5-8 Jun, 2017, pp. 1-4
3. Sovilj P., Jaroslaw M., Mitrović Z., Pejić D., Antić B., Urekar M.: Informacione tehnologije u studijskom programu Merenje i regulacija (Information Technologies in the Study Programme Measurement and Control Engineering), 23. TREND - Trendovi razvoja, Zlatibor: FTN, 22-24 Februar, 2017, pp. 126-129, ISBN 978-86-7892-904-5
4. Urekar M., Novaković Đ., Vujičić B., Sovilj P., Bulat M.: Kompozitni miliometar za merenje preciznih strujnih šantova u industrijskim uslovima, 61. ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku, Kladovo: Društvo za ETRAN, 5-8 Jun, 2017, pp. 1-5, ISBN 978-86-7466-692-0
5. Vujičić B., Urekar M., Sovilj P., Mitrović Z.: Merenje slabih sinusoidalnih signala i granica detekcije AC nule, 61. ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku, Kladovo: Društvo za ETRAN, 5-8 Jun, 2017, pp. 1-6, ISBN 978-86-7466-692-0

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

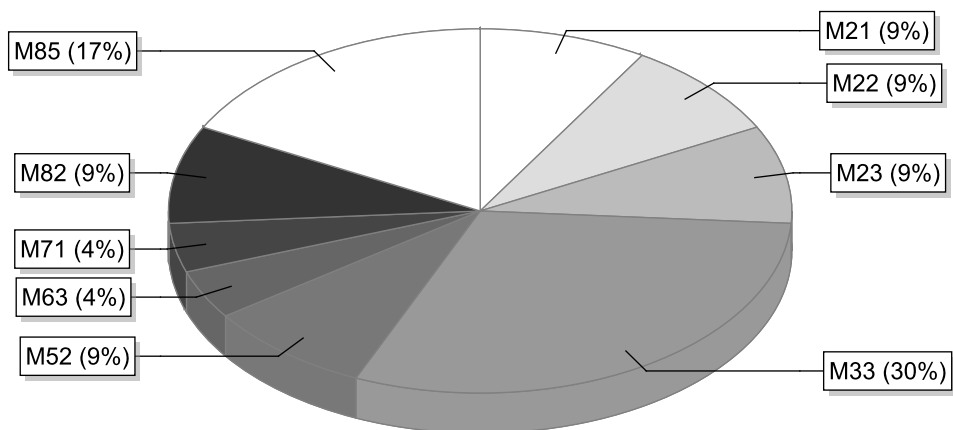
1. Đorđević-Kozarov J., Sovilj P., Urekar M., Vujičić B., Vujičić V., Pejić D., Novaković Đ., Gazivoda N., Radonjić A., Mitrović Z.: Simulacioni model stohastičke merne metode zasnovane na preklapanje mernih intervala, 2017
2. Đorđević-Kozarov J., Sovilj P., Urekar M., Vujičić B., Vujičić V., Pejić D., Novaković Đ., Gazivoda N., Radonjić A., Mitrović Z.: Stohastička merna metoda zasnovana na preklapanju mernih intervala, 2017
3. Ličina B., Sovilj P., Vujičić B., Gazivoda N., Radonjić A., Vujičić V., Pejić D., Urekar M., Mitrović Z., Novaković Đ.: Metoda merenja energije vetra korišćenjem stohastičke digitalne merne metode, 2017
4. Ličina B., Sovilj P., Vujičić B., Gazivoda N., Radonjić A., Vujičić V., Pejić D., Urekar M., Mitrović Z., Novaković Đ.: Simulacioni model metode merenja energije vetra korišćenjem stohastičke digitalne merne metode, 2017
5. Urekar M., Pejić D., Sovilj P., Vujičić V., Mitrović Z., Gazivoda N., Radonjić A., Vujičić B., Novaković Đ.: Metoda nalaženja optimalne rezolucije stohastičke digitalne merne metode, 2017
6. Urekar M., Pejić D., Sovilj P., Vujičić V., Mitrović Z., Gazivoda N., Radonjić A., Vujičić B., Novaković Đ.: Simulacioni model metode nalaženja optimalne rezolucije stohastičke digitalne merne metode, 2017
7. Urekar M., Vujičić B., Novaković Đ., Vujičić V., Pejić D., Sovilj P., Gazivoda N., Radonjić A., Mitrović Z.: Metoda merenja parametara kapacitivnih razdelnika napona u oblasti visokih frekvencija, 2017
8. Urekar M., Vujičić B., Novaković Đ., Vujičić V., Pejić D., Sovilj P., Gazivoda N., Radonjić A., Mitrović Z.: Simulacioni model metode merenja parametara kapacitivnih razdelnika napona u oblasti visokih frekvencija, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za teorijsku elektrotehniku

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
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	7
Rad u časopisu nacionalnog značaja	M52	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Odbranjena doktorska disertacija	M71	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	2
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	4



## PRODUKCIJA - REZULTATI

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

1. Đurić N., Antić D., Kljajić D., Fanti A., Đurić S.: The SEMONT's database support for quad-band monitoring of EMF exposure, *Measurement*, 2017, Vol. 99, No 3, pp. 79-89, ISSN 0263-2241, UDK: DOI:10.1016/j.measurement.2016.12.019
2. Kljajić D., Đurić N., Bjelica J., Milutinov M., Kasaš-Lažetić K., Antić D.: Utilization of the boundary exposure assessment for the broadband low-frequency EMF monitoring, *Measurement*, 2017, Vol. 100, No 1, pp. 110-114, ISSN 0263-2241, UDK: DOI 10.1016/j.measurement.2016.12.061

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

1. Milutinov M., Nikolić M., Luković S., Blaž N., Labus N., Aleksić O., Živanov Lj.: Influence of starting powder milling on magnetic properties of Mn-Zn ferrite, *Processing and Application of Ceramics*, 2017, Vol. 11, No 2, pp. 160-169, ISSN 1820-6131
2. Žlebić Č., Milutinov M., Živanov Lj., Marić A., Blaž N., Radosavljević G.: Influence of sintering temperature on the magnetic properties of LTCC ferrite tape for multilayer component applications, *Journal of Materials Science: Materials in Electronics*, 2017, ISSN 0957-4522, UDK: <https://doi.org/10.1007/s10854-017-8364-6>

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Juhas A., Dautović S., Novak L.: On optimal truncated biharmonic current waveforms for class-F and inverse class-F power amplifiers Article ID 1390295, 19 pages, 2017. doi:10.1155/2017/1390295, *Mathematical Problems in Engineering*, 2017, Vol. 2017, ISSN 1024-123X
2. Poznić A., Miloradović D., Juhas A.: A new magnetorheological brake's combined materials design approach, *Journal of Mechanical Science and Technology*, 2017, Vol. 31, No 3, pp. 1119-1125, ISSN 1738-494X

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

1. Antić D.: Polarization of magnetic field in vicinity of busbars with unbalanced currents, 2. International Conference on Smart Systems and Technologies (SST ), Osijek: Faculty of Electrical Engineering and Information Technology Osijek, 18-20 Oktobar, 2017, pp. 49-52, ISBN 978-953-6032-94-5
2. Bjelica J., Đurić N., Fanti A., Đurić S.: The Planar Inductor with Adjustable Surface for Energy Harvesting Applications, 38. The Progress in Electromagnetics Research Symposium - PIERS, Sankt Peterburg, 22-25 Maj, 2017
3. Đurić N., Mijatović G., Antić D., Bjelica J., Kljajić D., Kasaš-Lažetić K.: Double-layer Variable Geometry Inductor for Energy Harvesting Applications, 38. The Progress in Electromagnetics Research Symposium - PIERS, Sankt Peterburg, 22-25 Maj, 2017
4. Haška K., Mijatović G., Đurić N.: Electromagnetic characterization of inductors with variable geometry, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-933-5
5. Milutinov M., Juhas A., Pekarić Nađ N.: Magnetic field of electrical radiant heating system, 13. International Conference on Applied Electromagnetixs - PES, Niš, 30-1 Avgust, 2017, pp. 1-4, ISBN 978-86-6125-185-6
6. Milutinov M., Juhas A., Pekarić Nađ N.: Magnetic field of handheld hair dryers, 13. International Conference on Applied Electromagnetixs - PES, Niš: Elektronski fakultet u Nišu, 30-1 Avgust, 2017, pp. 1-4, ISBN 978-86-6125-185-6
7. Struharik R., Vukobratović B.: AIScale - A Coarse Grained Reconfigurable CNN Hardware Accelerator, 1. IEEE East-West Design & Test Symposium (EWDTS), Novi Sad, 29-2 Septembar, 2017, pp. 474-482, ISBN 978-1-5386-3298-7

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

1. Kasaš-Lažetić K., Herceg D., Haška K., Mitrović A., Prša M.: Uticaj permeabilnosti čeličnog jezgra na podužnu induktivnost Alučel provodnika, *Energija, Ekonomija, Ekologija*, 2017, No 1-2, pp. 350-356, ISSN 0354-8651, UDK: 620.9
2. Mitrović A., Kasaš-Lažetić K., Đurić N., Mitrović A., Prša M.: Izbor stubova u prenosnim elektroenergetskim mrežama sa ekološkog aspekta, *Energija, Ekonomija, Ekologija*, 2017, Vol. 19, No 1-2, pp. 342-349, ISSN 0354-8651, UDK: UDC: 620.9

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

1. Kasaš-Lažetić K., Herceg D., Mijatović G., Prša M.: Razvoj programa za numeričko određivanje magnetskih

polja posebnih struktura – konačno rešenje, 16. Međunarodni naučno-stručni simpozijum INFOTEH-JAHORINA, Jahorina, 22-24 Mart, 2017, pp. 140-143, ISBN ISBN 99938-624-2-8

Spisak rezultata M71 - Odbranjena doktorska disertacija

1. Milutinov M.: Modelovanje, simulacija i merenje snage gubitaka u feritnim jezgrima u frekvencijskom opsegu do 1 GHz, Novi Sad, Fakultet tehničkih nauka, Novi Sad, 2017

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

1. Đurić N., Antić D., Kljajić D.: Baza podataka SEMONT sistema za kontinualni monitoring i procenu izloženosti elektromagnetskim poljima, 2017
2. Kljajić D., Đurić N.: Metod procene izloženosti magnetskim poljima niskih frekvencija baziran na adaptivnim granicama izloženosti, 2017

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

1. Juhas A., Dautović S., Novak L.: Metoda za modelovanje signala struje u funkciji ugla provođenja sa primenom u analizi klase-F i inverzne klase-F pojačavača snage, 2017
2. Juhas A., Dautović S.: Metoda za modelovanje ponašanja idealnog memristora, 2017
3. Juhas A., Medić S., Grbić T., Milutinov M., Dautović S.: Metoda za modelovanje histerezisne petlje bazirana na sigmoidalnim funkcijama, 2017
4. Žlebić Č., Blaž N., Milutinov M., Živanov Lj., Damjanović M.: Прототип подешљивог феритног индуктора коришћењем једносмерне струје, 2017

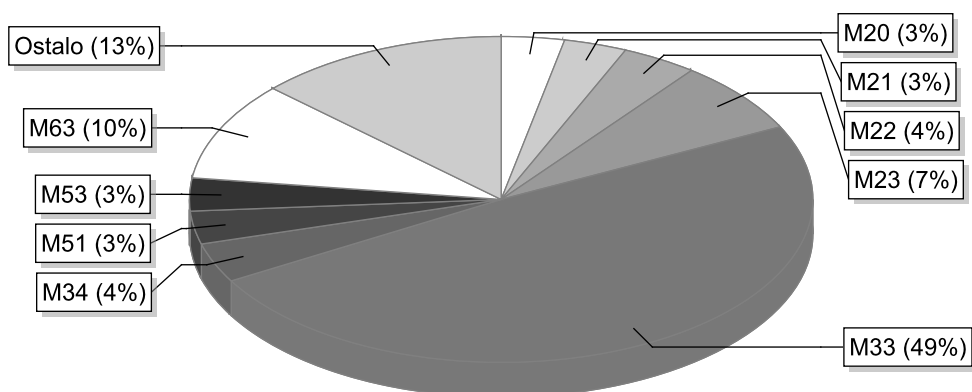


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za računarstvo i automatiku

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	3
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	5
Rad u vrhunskom međunarodnom časopisu	M21	5
Rad u istaknutom međunarodnom časopisu	M22	6
Rad u međunarodnom časopisu	M23	11
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	75
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	6
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja	M44	1
Rad u vodećem časopisu nacionalnog značaja	M51	5
Rad u časopisu nacionalnog značaja	M52	3
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	15
Odbranjena doktorska disertacija	M71	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	2
Bitno poboljšan postojeći proizvod ili tehnologija	M84	1
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	1
Kritička evaluacija podataka, baza podataka,	M86	1
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	3

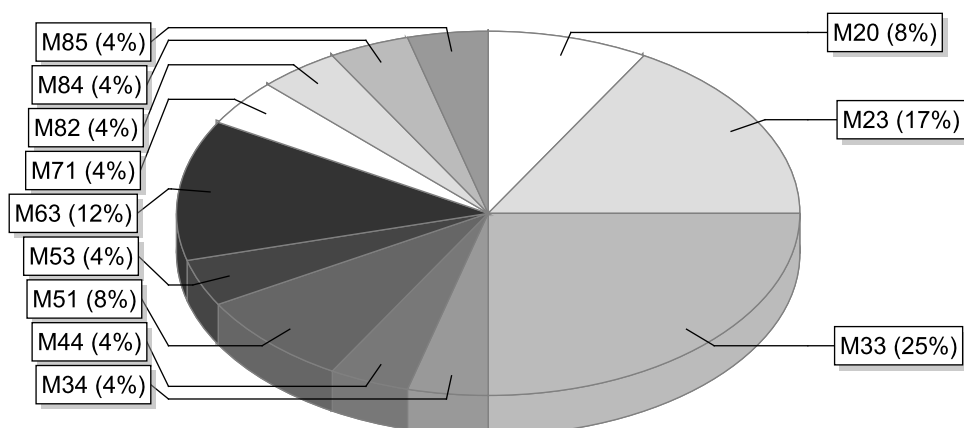


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za automatsko upravljanje

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	2
Rad u međunarodnom časopisu	M23	4
Saopštenje sa međunarodnog skupa štampano u celini	M33	6
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja	M44	1
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	3
Odbranjena doktorska disertacija	M71	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1
Bitno poboljšan postojeći proizvod ili tehnologija	M84	1
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	1



## PRODUKCIJA - REZULTATI

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

1. Cvetičanin S., Zorica D., Rapaić M.: Generalized time-fractional telegrapher's equation in transmission line modeling, *Nonlinear Dynamics*, 2017, Vol. 88, pp. 1453-1472, ISSN 0924-090X
2. Rapaić M.: Generalized time-fractional telegrapher's equation in transmission line modeling, *Nonlinear Dynamics*, 2017, ISSN 0924-090X

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Jakovljević B., Rapaić M., Jeličić Z., Šekara T.: On the distributed order PID controller, *AEU International Journal of Electronics and Communications - Archiv fuer Elektronik und Uebertragungstechnik*, 2017, Vol. 79, pp. 94-101, ISSN 1434-8411
2. Kapetina M., Rapaić M., Jeličić Z.: Two-stage adaptive estimation of irrational linear systems, *AEU International Journal of Electronics and Communications - Archiv fuer Elektronik und Uebertragungstechnik*, 2017, Vol. 78, pp. 213-219, ISSN 1434-8411
3. Matić D., Kanović Ž.: Vibration Based Broken Bar Detection in Induction Machine for Low Load Conditions, *Advances in Electrical and Computer Engineering*, 2017, Vol. 17, No 1, pp. 49-54, ISSN 1582-7445
4. Simeunović N., Kamenko I., Bugarski V., Jovanović M., Lalić B.: Improving workforce scheduling using artificial neural networks model, *Advances in Production Engineering and Management*, 2017, Vol. 12, No 4, pp. 337-352, ISSN 1854-6250

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

1. Cvetičanin S., Rapaić M., Zorica D.: Frequency analysis of generalized time-fractional telegrapher's equation, 23. European Conference on Circuit Theory and Design, ECCTD, Catania, 4-6 Septembar, 2017, ISBN 978-1-5386-3974-0
2. Dalčeković N., Vukmirović S., Kovačević I., Stankovski J.: Providing flexible software as a service for smart grid by relying on big data platforms, 1. International Symposium on Networks, Computers and Communications (ISNCC), Marakesh: IEEE, 16-18 Maj, 2017, ISBN 978-1-5090-4260-9
3. Jakovljević B., Šekara T., Rapaić M., Jeličić Z.: Distributed order PID optimization in comparison with fractional PID optimization based on performance and robustness indices, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo, 5-8 Jun, 2017
4. Kapetina M., Lino P., Maione G., Rapaić M.: Estimation of Non-integer Order Models to Represent the Pressure Dynamics in Common-rail Natural Gas Engines, 20. IFAC 2017 World Congress, Toulouse, France The 20th World Congress of the International Federation of Automatic Control, Toulouse, 9-14 Jul, 2017, pp. 15116-15121
5. Pavković V., Čapko D., Vukmirović S., Erdeljan A.: Modeling power system data using NoSQL database, 25. Telekomunikacioni forum TELFOR, Beograd, 21-22 Novembar, 2017
6. Rapaić M., Šekara T., Bošković M., Kapetina M.: Dijagonalna reprezentacija jedne klase iracionalnih funkcija prenosa, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo, 5-8 Jun, 2017

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

1. Kulić F., Bugarski V., Todorović V., Kamenko I.: Developing of web-based knowledge platform for agricultural production in a controlled environment, 5. International Conference Sustainable Postharvest and Food Technologies INOPTEP and National Conference Processing and Energy in Agriculture PTEP, Vršac: Nacionalno društvo za procesnu tehniku i energetiku u poljoprivredi, Novi Sad, 23-28 April, 2017

### Spisak rezultata M44 - Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja

1. Atanacković-Jeličić J., Maraš I., Despotović J., Ecet D., Medić S., Rapaić M.: URBAN DESIGN IN WWW. ENVIROMENT: CASE OF INFORMAL SETTLEMENT, Zbornik radova: "Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije", urednici: prof. dr Nađa Kurtović Folić, prof. dr Milena Krklješ, u štampi, Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, 2017, ISBN 9-788678-928420

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

1. Čongradac V., Lazarević S., Bojanić D.: Automatsko podešavanje parametara PID regulatora primenom veštačke inteligencije, *Klimatizacija Grejanje Hlađenje (KGH)*, 2017, Vol. 46, No 3/2017, pp. 229-231, ISSN 0350-1426

2. Kulić F., Bugarski V., Todorović V., Kamenko I.: Developing of web-based knowledge platform for agricultural production in a controlled environment, Journal on Processing and Energy in Agriculture, 2017, Vol. 21, No 4, pp. 159-162, ISSN 1821-4487, UDK: 633

Spisak rezultata M53 - Rad u naučnom časopisu

1. Stojaković N.: Modelovanje distributivnih elektroenergetskih sistema upotrebom Microsoft Graph Engine komponente, Zbornik radova Fakulteta tehničkih nauka, 2017, No 13/2016, pp. 2515-2518, ISSN 0350-428X, UDK: 004:007.5

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

1. Cvetičanin S., Zorica D., Rapačić M.: Фреквенцијска анализа фракционог модела електричног вода, 61. ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku, Kladovo: Društvo za ETRAN, Beograd i Akademska misao, Beograd, 5-8 Jun, 2017, ISBN 978-86-7466-692-0
2. Kapetina M.: Dijagonalna reprezentacija jedne klase iracionalnih funkcija prenosa, 4. International Conference on Electrical, Electronic and Computing Engineering IcETLAN, Kladovo, 5-8 Jun, 2017, pp. 1-5
3. Popović V., Gecić M., Oros Đ., Kulić F., Marčetić D.: Projektovanje strujnog kontrolera DC-DC pretvarača pogodnog za regulaciju momenta histerezisne kočnice, 16. Infoteh-Jahorina, Jahorina: Univerzitet u Istočnom Sarajevu, Elektrotehnički fakultet, 22-24 Mart, 2017, pp. 1-6, ISBN 978-99976-710-0-4

Spisak rezultata M71 - Odbranjena doktorska disertacija

1. Kapetina M.: Adaptivna estimacija parametara sistema opisanih iracionalnim funkcijama prenosa, Novi Sad, Fakultet tehničkih nauka, 2017, str. 1-130

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

1. Jeličić Z., Rapačić M., Kapetina M.: Уопштени ГРНН алгоритам са редукцијом димензионалности путем адаптивне класификације података, 2017

Spisak rezultata M84 - Bitno poboljšan postojeći proizvod ili tehnologija

1. Kanović Ž., Jeličić Z., Rapačić M., Kulić F.: Sistem za detekciju i dijagnostikovanje kvarova na asinhronim elektromotorima baziran na analizi signala vibracija i potpornim vektorima, 2017

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

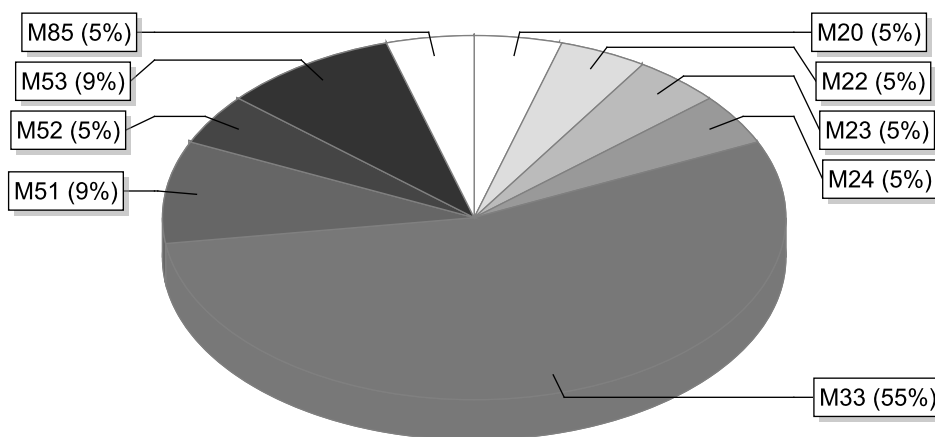
1. Petković M., Kanović Ž., Rapačić M., Bojanić D.: Sistem baziran na PBRC algoritmu za detekciju poremećaja srčanog rada (aritmije), 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za sisteme, signale i upravljanje

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	12
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	2
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	1



## PRODUKCIJA - REZULTATI

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

1. Ristić A., Bugarinović Ž., Vrtunski M., Govedarica M., Petrovački D.: Integration of modern remote sensing technologies for faster utility mapping and data extraction, *Construction and Building Materials*, 2017, Vol. 154, No 9, pp. 1183-1198, ISSN 0950-0618(02)00045-4

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

1. Ristić A., Bugarinović Ž., Vrtunski M., Govedarica M.: Point coordinates extraction from localized hyperbolic reflections in GPR data, *Journal of Applied Geophysics*, 2017, Vol. 144, pp. 1-17, ISSN 0926-9851

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Radulović A., Sladić D., Govedarica M.: Towards 3D Cadastre in Serbia: Development of Serbian Cadastral Domain Model doi:10.3390/ijgi6100312, *ISPRS International Journal of Geo-Information*, 2017, Vol. 5, No 10, pp. 312-333, ISSN 2220-9964

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

1. Petrović V., Borisov M., Zlatanović D., Djurdjevac Ignjatovi L.: Vertical accuracy of data on the topographic maps and their application in mining, *Mining and Metallurgy Engineering Bor*, 2017, No 3-4, pp. 39-50, ISSN 2334-8836, UDK: 528.4:681.325(045)=111

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

1. Popovic D., Govedarica M., Jovanović D., Radulović A., Simeunovic V.: 3D Visualization of Urban Area Using Lidar Technology and CityGML doi :10.1088/1755-1315/95/4/042006, *IOP Conference Series: Earth and Environmental Science*, 2017, Vol. 95, No 042006, pp. 1-9, ISSN 1755-1315, 1. World Multidisciplinary Earth Sciences Symposium, Prag: IOP Publishing, 11-15 Septembar, 2017, pp. 1-9, ISBN ISSN: 1755-1315
2. Popović D., Pajić V., Jovanović D., Sabo F., Radović J.: Semi-Automatic Classification of Power Lines by Using Airborne Lidar, 7. FIG Working Week 2017, Helsinki, 29-2 Maj, 2017, pp. 1-12, ISBN 978-87-92853-61-5, UDK: <https://www.fig.net/resources/proceedings>
3. Radulović A., Sladić D., Govedarica M., Popovic D., Radovic J.: Geospatial Web Services in Real Estate Information System doi :10.1088/1755-1315/95/4/042010, *IOP Conference Series: Earth and Environmental Science*, 2017, Vol. 95, No 042010, pp. 1-9, ISSN 1755-1315, 1. World Multidisciplinary Earth Sciences Symposium, Prag: IOP Publishing, 11-15 Septembar, 2017, pp. 1-9, ISBN ISSN: 1755-1315
4. Radulović A., Sladić D., Govedarica M.: Serbian Profile of the Land Administration Domain Model (8698) [http://www.fig.net/resources/proceedings/fig\\_proceedings/fig2017/papers/p03g/P03G\\_radulovic\\_sladic\\_et\\_a\\_l\\_8698.pdf](http://www.fig.net/resources/proceedings/fig_proceedings/fig2017/papers/p03g/P03G_radulovic_sladic_et_a_l_8698.pdf), 7. FIG Working Week 2017, Helsinki: International Federation of Surveyors - FIG, 29-2 Maj, 2017, pp. 1-13, ISBN ISSN 2307-4086
5. Ristić A., Bugarinović Ž., Govedarica M., Pajewski L., Derobert X.: Verification of algorithm for point extraction from hyperbolic reflections in GPR data, 9. 9th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), Edinburgh: IEEE Xplore Digital Library , 28-30 Jun, 2017, ISBN 978-1-5090-5484-8, UDK: DOI: 10.1109/IWAGPR.2017.7996109
6. Ristić A., Derobert X., Govedarica M., Pajewski L., Plati C., Vrtunski M.: TU 1208 guidelines for detection and localization of utilities in urban areas, 7. COST Action TU1208 Final conference Civil engineering applications of Ground Penetrating Radar, Warsaw: National Institute of Telecommunications of Poland, 25-27 Septembar, 2017
7. Ristić A., Govedarica M., Vrtunski M., Bugarinović Ž., Derobert X., Pajewski L., Meschino S.: Development of new algorithm for automated point extraction from hyperbolic reflections in GPR data and comparison with SPOT-GPR results, 7. COST Action TU1208 Final conference Civil engineering applications of Ground Penetrating Radar, Warsaw: National Institute of Telecommunications of Poland, 25-27 Septembar, 2017
8. Ristić A., Govedarica M., Vrtunski M., Bugarinović Ž., Pajewski L., Fontul S.: GPR Road Show in Novi Sad, 7. COST Action TU1208 Final conference Civil engineering applications of Ground Penetrating Radar, Warsaw: National Institute of Telecommunications of Poland, 25-27 Septembar, 2017
9. Ristić A., Pajewski L., Benedetto A., Derobert X., Fontul S., Govedarica M., Gregoire C., Loizos A., Perez-Gracia V., Plati C., Tosti F., Van Geem C.: COST Action TU1208 –Working Group 2 – GPR surveying of pavements, bridges, tunnels and buildings; underground utility and void sensing, 5. EGU General Assembly, Vienna: EGU society, 8-13 April, 2017, UDK: EGU2017-16388-1
10. Ristić A., Vrtunski M., Govedarica M., Pajewski L., Derobert X.: Automated data extraction from synthetic and real radargrams of district heating pipelines, 9. 9th International Workshop on Advanced Ground

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11. Ristić A., Vrtunski M., Pajewski L., Derobert X., Gregoire C., Van Geem C., Van der Wielen A., Bugarinović Ž., Govedarica M., Artagan S., Borecky V., Fontul S., Marecos V.: System Performance Compliance Tests proposed by COST Action TU1208, 7. COST Action TU1208 Final conference Civil engineering applications of Ground Penetrating Radar, Warsaw: National Institute of Telecommunications of Poland, 25-27 Septembar, 2017
12. Sladić D., Radulović A., Govedarica M.: Cadastral Records in Serbian Land Administration (8731), [http://www.fig.net/resources/proceedings/fig\\_proceedings/fig2017/papers/ts01a/TS01A\\_sladic\\_radulovic\\_et\\_al\\_8731.pdf](http://www.fig.net/resources/proceedings/fig_proceedings/fig2017/papers/ts01a/TS01A_sladic_radulovic_et_al_8731.pdf), 7. FIG Working Week 2017, Helsinki: International Federation of Surveyors: FIG, 29-2 Maj, 2017, pp. 1-11, ISBN 2307-4086

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

1. Čongradac V., Lazarević S., Bojanić D.: Automatsko podešavanje parametara PID regulatora primenom veštačke inteligencije, Klimatizacija Grejanje Hlađenje (KGH), 2017, Vol. 46, No 3/2017, pp. 229-231, ISSN 0350-1426
2. Mejić L., Došen S., Ilić V., Stanišić D., Jorgovanović N.: An Implementation of Movement Classification for Prosthesis Control Using Custom-Made EMG System, Serbian Journal of Electrical Engineering, 2017, Vol. 14, No 1, pp. 13-22, ISSN 1451-4869, UDK: 621.3

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

1. Borisov M., Petrović V.: Production of topographic map at scale 1:50 000 in the environment of geodatabase, Geodetski Glasnik, 2017, Vol. 51, No 48, pp. 89-102, ISSN 2233-1786, UDK: 528.93

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

1. Antonić N., Govedarica M.: Locata – Tehnologija visokopreciznog pozicioniranja, Info M – Časopis za informacione tehnologije i multimedijalne sisteme, 2017, Vol. 61, No 1, pp. 4-11, ISSN 1451-4397, UDK: 621.39:654
2. Jovanović D.: THE USE OF REMOTE SENSING IN ARABLE LAND IDENTIFICATION AND MAPPING, Zbornik radova Departmana za geografiju, turizam i hotelijerstvo, 2017, Vol. 46, No 2, pp. 96-104, ISSN 1452-0133, UDK: 528.837:631.51.02

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

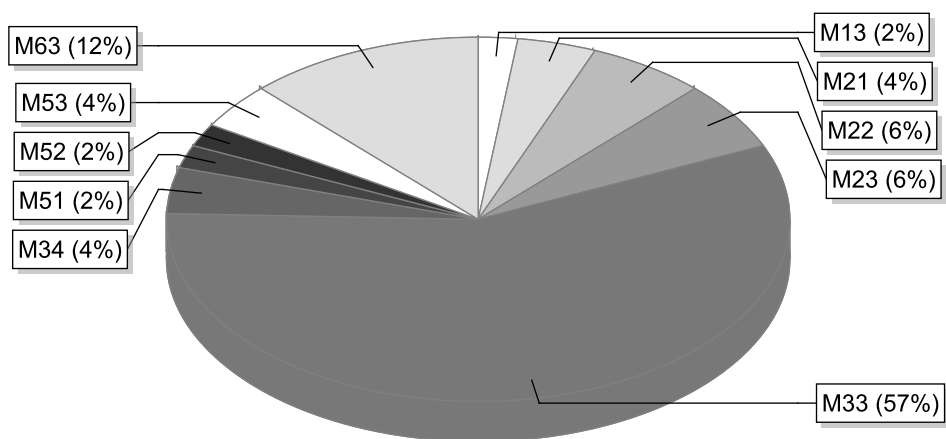
1. Petković M., Kanović Ž., Rapaić M., Bojanić D.: Sistem baziran na PBRC algoritmu za detekciju poremećaja srčanog rada (aritmijske), 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za primenjene računarske nauke

Zbirni pregled naučno istraživačkih rezultata u 2017. 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 vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	28
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	6





## PRODUKCIJA - REZULTATI

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

1. Gajić D., Dragan D., Petrović V., Mihić S., Anišić Z., Vezilić B., Vladimir P.: "Binary Classification of Images for Applications in Intelligent 3D Scanning", in Intelligent Distributed Computing XI, Chapter 18, [https://link.springer.com/chapter/10.1007/978-3-319-66379-1\\_18](https://link.springer.com/chapter/10.1007/978-3-319-66379-1_18), New York, Springer, 2017, str. 199-209, ISBN 978-3-319-66378-4

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Frank A., Armenski T., Gocić M., Popov S., Popović Lj., Trajković S.: Influence of mathematical and physical background of drought indices on their complementarity and drought recognition ability, *Atmospheric Research*, 2017, Vol. 194, pp. 268-280, ISSN 0169-8095
2. Radonić (Jakšić) J., Jovčić Gavanski N., Ilić M., Popov S., Batić Očovaj S., Vojinović-Miloradov M., Turk Sekulić M.: Emission sources and health risk assessment of polycyclic aromatic hydrocarbons in ambient air during heating and non-heating periods in the city of Novi Sad, Serbia DOI 10.1007/s00477-016-1372-x, *Stochastic Environmental Research and Risk Assessment*, 2017, ISSN 1436-3240

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Kupusinac A., Stokić E., Sukić E., Rankov O., Katić A.: What kind of Relationship is Between Body Mass Index and Body Fat Percentage?, *Journal of Medical Systems*, 2017, Vol. 41, No 1, ISSN 0148-5598, UDK: DOI: 10.1007/s10916-016-0636-9
2. Stokić E., Kupusinac A., Tomić-Naglić D., Smiljениć-Radošević D., Kovačev-Zavišić B., Srdić Galić B., Soskić S., Isenović E.: Vitamin D and Dysfunctional Adipose Tissue in Obesity (Authors' Reply), *Angiology*, 2017, Vol. 68, No 6, ISSN 0003-3197
3. Stokić E., Romani A., Ilinčić B., Kupusinac A., Stošić Z., Isenović E.: Chronic Latent Magnesium Deficiency in Obesity Decreases Positive Effects of Vitamin D on Cardiometabolic Risk Indicators DOI:10.2174/1570161115666170821154841, *Current Vascular Pharmacology*, 2017, ISSN 1570-1611

Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Bajić S., Popov S.: Flood hazard analysis – GIS aspects of possible solution, *Fresenius Environmental Bulletin*, 2017, Vol. 26, No 8/2017, pp. 5041-5048, ISSN 1018-4619
2. Dević S., Luković I.: Development of a Database for the Common Information Model of Power Grids, *Information Technology and Control*, 2017, Vol. 46, No 3, pp. 319-332, ISSN 1392-124X, UDK: DOI: 10.5755/j01.itc.46.3.14340
3. Luković I.: Uređivanje specijalne sekcije u časopisu "Model Driven Approaches in Sysgtem Development", *Computer Science and Information Systems*, 2017, Vol. 14, No 3, ISSN 1820-0214

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Anđelić S., Kondić M., Perić I., Jocić M., Kovačević A.: Text Classification Based on Named Entities, 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017, pp. 23-28, ISBN 978-86-85525-19-3
2. Bošković N., Jocić M., Obradović Đ., Simić M.: Grouping Facebook Users Based On The Similarity Of Their Interests, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 358-360, ISBN 978-86-85525-19-3
3. Dragan D., Gajić D., Petrović V.: Experiences in Teaching an IT Retraining Course –Fundamentals of Programming using Java, Plenary Session Paper, 7. International Conference on Applied and Information Technologies, Zrenjanin: U niversity of Novi Sad, Technical Faculty "Mihajlo Pupin" D jure Djakovica bb, Zrenjanin, Republic of Serbia, 5-6 Oktobar, 2017, pp. 10-17, ISBN 978-86-7672-304-1
4. Gajić D., Manoilov Đ.: "A Performance Evaluation of Computing Singular Value Decomposition of Matrices on Central and Graphics Processing Units", 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017, pp. 441-446, ISBN 978-86-85525-19-3
5. Gajić D., Stanković R.: "Fast Computation of the Discrete Pascal Transform", 47. International Symposium on Multiple-Valued Logic, Novi Sad: IEEE Press - IEEE Computer Society, 22-24 Maj, 2017, pp. 149-154, ISBN 978-1-5090-5496-1
6. Igić N., Terzić B., Matić M., Ivančević V., Luković I.: Applying Domain Knowledge for Data Quality Assessment in Dermatology, 9. International Conference on Intelligent Decision Technologies, Vilamoura: Springer, 21-23 Jun, 2017, pp. 147-156, ISBN 978-3-319-59423-1, UDK: DOI: 10.1007/978-3-319-59424-8\_14

7. Ivančević V., Ivković V., Luković I.: Integrating Open Data on Higher Education and Science in Serbia, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
8. Ivančević V., Ivković V., Luković I.: Open Data in an Analysis of Higher Education in Engineering and Technology in Serbia, 45. SEFI Conference, Azores: European Society for Engineering Education, 18-21 Septembar, 2017, pp. 1260-1267, ISBN 978-989-98875-7-2
9. Kordić (Aleksić) S., Ristić S., Čeliković M., Dimitrieski V., Luković I.: Reverse Engineering of a Generic Relational Database Schema into a Domain-Specific Data Model, 28. Central European Conference on Information and Intelligent Systems, Varaždin: University of Zagreb, Faculty of Organization and Informatics, 27-29 Septembar, 2017, pp. 19-28, ISBN ISSN 1848-2295
10. Kupusinac A., Stokić E., Doroslovački R., Ivetić D., Vrbaški D., Vrbaški M., Ivanović D.: The Detection of Low HDL Cholesterol Level by Using Artificial Neural Networks, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, ISBN 978-86-7892-934-2
11. Marić P., Milašinović D., Goleš D., Živanov Ž., Hajduković M.: A Hybrid Software Solution for the Harmonic Coupled Finite Strip Method Characteristic Equations, 5. International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering, Pecs, 30-31 Maj, 2017
12. Marić P., Živanov Ž., Hajduković M., Milašinović D.: A Python programming library for quick development of self-registering plug-in systems, 10. Science and Higher Education in Function of Sustainable Development – SED 2017, Drvengrad, 2017
13. Novaković T., Bondžić (Simić) J., Ćosić Đ., Popov S., Miškić M.: Flood Risk Damage Assessment, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department for Industrial Engineering and Management, 4-6 Oktobar, 2017, pp. 410-413, ISBN 978-86-7892-978-6
14. Novaković T., Bondžić (Simić) J., Popov S., Ćosić Đ.: Flood Simulation for Expected Damage Calculation, 8. ITRO - International Conference on Information Technology and Development of Education, Zrenjanin: University of Novi Sad, Technical faculty „Mihajlo Pupin”, Zrenjanin, Republic of Serbia, 22 Jun, 2017, pp. 215-219, ISBN 978-86-7672-302-7
15. Obrenović N., Vidaković G., Luković I.: The Choice of Metric for Clustering of Electrical Power Distribution Consumers, 1. International Data Science Conference (IDSC), Salzburg: Springer Vieweg, 12-13 Jun, 2017, pp. 71-76, ISBN 978-3-658-19286-0, UDK: DOI: 10.1007/978-3-658-19287-7\_10
16. Petrović V., Dragan D., Gajić D.: You Can't Get There from Here: Experiences with a Retraining Course in Web Development, 7. International Conference on Applied and Information Technologies, Zrenjanin: University of Novi Sad, Technical Faculty "Mihajlo Pupin" D jure Djakovica bb, Zrenjanin, Republic of Serbia, 5-6 Oktobar, 2017, ISBN 978-86-7672-304-1
17. Pisarić M., Dimitrieski V., Babić M., Veselinović S., Dušić F.: Towards a Plug-and-Play Architecture in Industry 4.0, 17. International Scientific Conference on Industrial Systems, Novi Sad: Faculty of Technical Sciences (Novi Sad). Department for Industrial Engineering and Management, 4-6 Oktobar, 2017, pp. 136-141, ISBN 978-86-7892-978-6
18. Popov S., Zarić M., Ćosić Đ.: Pairing BPM and IoT For Sensor Error Discovery and Recovery Automation, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, Belgrade, 12-15 Mart, 2017, pp. 98-101, ISBN 978-86-85525-19-3
19. Popović A., Luković I., Dimitrieski V., Đukić V.: An Approach for Modeling Events in Information Systems, 11. Federated Conference on Computer Science and Information Systems, Prag: Polskie Towarzystwo Informatyczne, 3-6 Septembar, 2017, pp. 707-710, ISBN 978-83-946253-7-5, UDK: DOI 10.15439/2017F120
20. Popović Lj., Popov S., Ćosić Đ.: A GIS Based Approach for Hydrological Conflicts Estimation, 8. ITRO - International Conference on Information Technology and Development of Education, Zrenjanin: University of Novi Sad, Technical faculty „Mihajlo Pupin”, Zrenjanin, Republic of Serbia, 22 Jun, 2017, pp. 43-48, ISBN 978-86-7672-302-7
21. Poznanović M., Kordić (Aleksić) S., Vidaković J., Ristić S., Čeliković M.: An Approach to Generating Specifications of a Database Schema for DBMSs based on XML Data Model, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Association for Information systems and Computer Networks, 12-15 Mart, 2017, pp. 195-200, ISBN 978-86-85525-19-3
22. Stojkov M., Milosavljević B., Sladić G.: On the Usability of Access Control Models in IoT, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty

of Technical Sciences, 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-934-2

23. Terzić B., Dimitrieski V., Kordić (Aleksić) S., Luković I., Milosavljević G.: MicroBuilder: A Model-Driven Tool for the Specification of REST Microservice Architectures, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 179-184, ISBN 978-86-85525-19-3
24. Vasiljević P., Vasiljević M.: Bezbednosni aspekt jednostavnog kalkulatora za procenu zdravstvenog rizika, 3. Međunarodno naučno savetovanje: "Upravljanje znanjem i informatika", Kopaonik, 13-14 Januar, 2017, pp. 197-203, ISBN 978-86-6211-108-1
25. Vidaković J., Ristić S., Kordić (Aleksić) S., Luković I.: Extended Tuple Constraint Type in Relational and XML Data Model – Definition and Enforcement, 8. Balkan Conference in Informatics, Skoplje: ACM, 20-23 Septembar, 2017, pp. 1-8, ISBN 978-1-4503-5285-7, UDK: DOI: 10.1145/3136273.3136294
26. Vujanović A., Gojić G., Turović R., Slivka J., Kovačević A.: The Influence of Nearby Geographical Objects on the Popularity of Bicycle-Sharing Stations, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 9-12, ISBN 978-86-85525-19-3
27. Vujanović A., Igić N., Luković I., Gajić D., Ivančević V.: A Microservice System for Unified Communication over Multiple Social Networks, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 435-440, ISBN 978-86-85525-19-3
28. Vujanović A., Kordić (Aleksić) S., Luković I., Čeliković M., Vidaković J.: From the Decomposition Algorithm to the Model Driven Transformations in Database Design, 17. International Scientific Conference on Industrial Systems, Novi Sad: University of Novi Sad - Faculty of Technical Sciences Department of Industrial Engineering and Management, 4-6 Oktobar, 2017, pp. 176-181, ISBN 978-86-7892-978-6

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Gajić D., Stanković R.: On the Computational Complexity of the Discrete Pascal Transform, 6. Logic and Applications, Dubrovnik: IUC, 18-22 Septembar, 2017, pp. 13-15
2. Vasiljević M., Dragan D., Kupusinac A., Vrbaški D.: Virtual Reality Innovation Hub, 4. International Conference on Computational and Experimental Science and Engineering, Antalija, 4-8 Oktobar, 2017

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Ivančević V., Knežević M., Luković I.: Personality Questionnaires as a Basis for Improvement of University Courses in Applied Computer Science and Informatics, Brain: Broad Research in Artificial Intelligence and Neuroscience, 2017, Vol. 8, No 2, pp. 96-108, ISSN 2067-3957

Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Gajić D., Stanković R., Radmanović M.: "A Performance Analysis of Computing the LU and the QR Matrix Decompositions on the CPU and the GPU", International Journal of Reasoning-based Intelligent Systems, 2017, Vol. 9, No 2, pp. 114-121, ISSN 1755-0564

Spisak rezultata M53 - Rad u naučnom časopisu

1. Berdić N., Dragan D., Mihić S., Anišić Z.: Creation and usage of 3D full body avatars, Annals of Faculty Engineering Hunedoara - International Journal of Engineering, 2017, Vol. 15, No 1, pp. 29-34, ISSN 1584-2665
2. Miljub A., Dragan D., Mihić S., Anišić Z.: Review of 3D body scanning systems, Acta Technica Corviniensis, 2017, Vol. 10, No 1, pp. 17-24, ISSN 2067-3809

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

1. Dragan D., Gajić D., Petrović V.: The Role of Image Compression in Photogrammetry Based Scanning Systems, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: University of Novi Sad, Faculty Technical Sciences, 22-25 Novembar, 2017, pp. 69-72, ISBN 978-86-7892-993-9, UDK: 004.932/.934(082)
2. Gajić D., Dragan D., Petrović V.: Efficient Computation of Spectral Transforms on Graphics Processing Units, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: University of Novi Sad, Faculty Technical Sciences, 22-25 Novembar, 2017, pp. 121-124, ISBN 978-86-7892-993-9, UDK: 004.932/.934(082)
3. Konjović Z., Bojanić R., Kovačević I., Konjović G., Manasijević A.: Problemi u aktuelnom definisanju užih naučnih oblasti, 23. TREND - Trendovi razvoja, Zlatibor: Fakultet tehničkih nauka, 22-24 Februar, 2017, pp. 372-375, ISBN 978-86-7892-904-5
4. Kupusinac A., Kovačević I., Doroslovački R.: Nova pravila upisa na visokoškolske ustanove-velika matura

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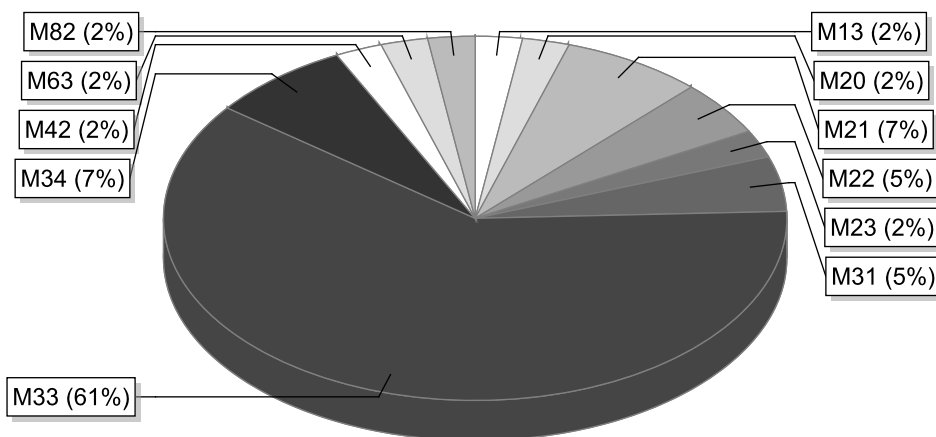
5. Luković I., Šolaja M.: Trendovi akademskog obrazovanja u oblasti nauke o podacima – analiza stanja u Srbiji, 23. Trendovi razvoja TREND, Zlatibor: Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 22-24 Februar, 2017, pp. 162-165, ISBN 978-86-7892-904-5
6. Vasiljević I., Dragan D., Obradović R.: Poređenje tehnika za kompresiju stereoskopskih slika, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 22-25 Novembar, 2017, pp. 73-76, ISBN 978-86-7892-993-9

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za informatiku

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	3
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	25
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1



## PRODUKCIJA - REZULTATI

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

1. Zečević I., Bjeljac P., Perišić B., Maruna V., Venus D.: Domain-Specific Modeling Environment for Developing Domain Specific Modeling Languages as Lightweight General Purpose Modeling Language Extensions, In: Recent Advances in Information Systems and Technologies, Editors: Rocha, A., Correia, A.M., Adeli, H., Reis, L.P., Costanzo, S., Springer International Publishing, 2017, str. 872-881, ISBN 978-3-319-56534-7, Ukupno strana: 930

Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Malbaša V., Zheng C., Chen P., Popović T., Kezunović M.: Voltage Stability Prediction Using Active Machine Learning, IEEE Transaction on Smart Grid, 2017, ISSN 1949-3053

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Dehghan A., Kovačević A., Karystianis G., Keane J., Nenadic G.: Learning to identify protected health information by integrating knowledge-and data-driven algorithms: a case study on psychiatric evaluation notes, Journal of Biomedical Informatics, 2017, ISSN 1532-0464
2. Dejanović I., Vaderna R., Milosavljević G., Vuković Ž.: TextX: A Python tool for Domain-Specific Languages implementation, Knowledge-Based Systems, 2017, Vol. 115, pp. 1-4, ISSN 0950-7051
3. Slivka J., Sladić G., Milosavljević B., Kovačević A.: RSSalg software: a tool for flexible experimenting with co-training based semi-supervised algorithms, Knowledge-Based Systems, 2017, ISSN 0950-7051

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Cverdelj-Fogaraši I., Sladić G., Gostojić S., Segedinac M., Milosavljević B.: Semantic integration of enterprise information systems using meta-metadata ontology, Information Systems and e-Business Management, 2017, Vol. 15, No 2, pp. 257-304, ISSN 1617-9846
2. Sladić G., Cverdelj-Fogaraši I., Gostojić S., Savić G., Segedinac M., Zarić M.: Multilayer Document Model for Semantic Document Management Services, Journal of Documentation, 2017, Vol. 73, No 5, pp. 803-824, ISSN 0022-0418

Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Dimić Surla B., Surla D., Ivanović D.: Evaluation of citations: a proposition to supplement the corresponding rule book in Serbia, Electronic Library, 2017, Vol. 35, No 3, pp. 598-614, ISSN 0264-0473

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

1. Sladić G., Milosavljević B.: Context-Aware Access Control for IoT Driven Processes , 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
2. Vuković Ž., Milosavljević G.: Semi-automated Interface Mapping in Enterprise Application Integration, 6. International Conference on Applied Internet and Information Technologies, Zrenjanin: University of Novi Sad, Technical Faculty "Mihajlo Pupin", 5-6 Oktobar, 2017, pp. 18-24, ISBN 978-86-7672-304-1

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Anđelić S., Kondić M., Perić I., Jocić M., Kovačević A.: Text Classification Based on Named Entities, 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017, pp. 23-28, ISBN 978-86-85525-19-3
2. Angerstein T., Okanović D., Heger C., André v., Kovačević A., Thomas K.: Many Flies in One Swat: Automated Categorization of Performance Problem Diagnosis Results, 8. International Conference on Performance Engineering, L'Aquila, 22-26 April, 2017, pp. 341-344, ISBN 978-1-4503-4404-3
3. Balać V., Vidaković M.: A model-Driven Approach to User-Specific Operations in the Development of Web Business Applications, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 169-172, ISBN 978-86-85525-19-3
4. Bjeljac P., Đukić N., Tegeltija S., Stankovski S., Ostojić G.: IoT-Based Information Systems in Seed-to-Fork Food Production, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 70-74, ISBN 978-86-85525-19-3
5. Bošković N., Jocić M., Obradović Đ., Simić M.: Grouping Facebook Users Based On The Similarity Of Their Interests, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for

Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 358-360, ISBN 978-86-85525-19-3

6. Bošnjak A., Sladić G., Luburić N.: Smart tourism destinations: Enhancing interconnection between stakeholders and tourist through information personalization and feedback system, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, Belgrade, 12-15 Mart, 2017, pp. 93-97, ISBN 978-86-85525-19-3
7. Ivanović S., Milivojša S., Erić T., Vidaković M.: Collection and Analysis of System Usage Data in Smart Home Automation Systems, 7. Proceedings of the IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin, 3-6 Septembar, 2017
8. Kaplar A., Simić M., Kovačević A.: Artificial General Intelligence Approach for Reasoning in Clinical Decision Support, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 271-274, ISBN 978-86-85525-19-3
9. Kaplar A., Vidaković M., Luburić N., Ivanović M.: Improving a Distributed Agent-Based Ant Colony Optimization for Solving Traveling Salesman Problem, 40. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o mikrorračunalima u telekomunikacijama, Opatija: Croatian Society for Information and Communication Technology, Electronics and Microelectronics - MIPRO, 22-26 Maj, 2017, pp. 1356-1360, ISBN 978-953-233-093-9
10. Lukić A., Luburić N., Vidaković M., Hölbl M.: Development of multi-agent framework in JavaScript, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 261-265, ISBN 978-86-85525-19-3
11. Matić M., Stefanović I., Radosavac U., Vidaković M.: Challenges of Integrating Smart Home Automation with Cloud Based Voice Recognition Systems, 7. Proceedings of the IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin, 3-6 Septembar, 2017
12. Nikolić N., Savić G., Milosavljević B.: E-Course generator based on ontology of accreditation documents, 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017, pp. 361-365, ISBN 978-86-85525-19-3
13. Pejaković A., Segedinac M., Savić G.: Generating educational courses by using ontologies and stream processing, 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017, pp. 366-367, ISBN 978-86-85525-19-3
14. Penca V., Nikolić S., Ivanović D.: Mapping scheme from Invenio to CERIF format, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 409-414, ISBN 978-86-85525-19-3
15. Popov S., Zarić M., Ćosić Đ.: Pairing BPM and IoT For Sensor Error Discovery and Recovery Automation, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, Belgrade, 12-15 Mart, 2017, pp. 98-101, ISBN 978-86-85525-19-3
16. Rudić G., Ivanović D.: Cataloguing dataset in Library Information Systems using the MARC 21 format, 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017, pp. 395-399
17. Simić M., Bošković N., Kaplar A., Dejanović I.: Kronos : A DSL for scheduled tasks based on textX, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 358-360, ISBN 978-86-85525-19-3
18. Simić M., Sladić G., Milosavljević B.: A Case Study IoT and Blockchain Powered Healthcare , 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty of Technical Sciences , 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-934-2
19. Sredojević D., Vidaković M., Ivanović M., Mitrović D.: Extension of Agent-oriented Domain-specific language ALAS as a support to Distributed Non-Axiomatic Reasoning, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 368-372, ISBN 978-86-85525-19-3
20. Stojkov M., Milosavljević B., Sladić G.: On the Usability of Access Control Models in IoT , 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-934-2
21. Suljkanović A., Gostojić S., Dejanović I., Kaplar S.: Analysis of Current Languages for Developing Distributed Systems, 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017
22. Terzić B., Dimitrieski V., Kordić (Aleksić) S., Luković I., Milosavljević G.: MicroBuilder: A Model-Driven Tool

for the Specification of REST Microservice Architectures, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 179-184, ISBN 978-86-85525-19-3

23. Vidaković D., Segedinac M., Obradović Đ., Savić G.: Recommendation System with Personalizable Distributed Collaborative Filtering, 7. International Conference on Information Science and Technology (ICIST), Kopaonik, 12-15 Mart, 2017, pp. 29-32, ISBN 978-86-85525-19-3
24. Vujanović A., Gojić G., Turović R., Slivka J., Kovačević A.: The Influence of Nearby Geographical Objects on the Popularity of Bicycle-Sharing Stations, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 9-12, ISBN 978-86-85525-19-3
25. Zečević I., Bjeljic P.: Model Driven Development of Hybrid Databases, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Society for Information Systems and Computer Networks, 12-15 Mart, 2017, pp. 154-158, ISBN 978-86-85525-19-3

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Krtolica I., Vojinović-Miloradov M., Radulović S., Cvijanović (Laketić) D., Sremački M., Obrovski B., Obradović Đ.: Macrophyte presence as indicator of Danube river ecological status- artificial intelligence modeling approach, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Slovak University of Technology, 20-22 Septembar, 2017, pp. 32-32, ISBN 978-80-227-4731-8
2. Rodić (Milenković) D., Rončević (Hrin) T., Segedinac M., Segedinac M., Savić G.: Conflict between calculations and underlying concepts: Case of tertiary level students, 7. European variety in university chemistry education, Beograd, 28-30 Jun, 2017, pp. 77-77
3. Rončević (Hrin) T., Rodić (Milenković) D., Segedinac M., Segedinac M., Savić G.: Efficiency of solving systemic multiple choice questions in organic chemistry at university level: An eye tracking analysis, 7. European variety in university chemistry education, Beograd, 28-30 Jun, 2017, pp. 82-82

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

1. Gostojić S.: Stvaranje i primena pravnih akata tehnikama semantičkog veba, Novi Sad, Fakultet tehničkih nauka, 2017, ISBN 978-86-7892-940-3

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

1. Cvetanovski M., Bjeljic P., Zečević I., Perišić I., Vujović V.: All memory linked clone Virtual Desktop Infrastructure as a flexible, high performance, durable and hardware efficient temporary learning environment, Infoteh, Jahorina, 2017, Vol. 300, ISSN konferencija, 16. Naučno-stručni simpozijum INFOTEH-JAHORINA, Jahorina: Elektrotehnički fakultet, Univerzitet u Istočnom Sarajevu, 22-24 Mart, 2017, ISBN 978-99976-710-0-4, UDK: 6490648

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

1. Stojanović Đ., Nikoličić S., Maslarić M., Veličković M., Mirčetić D., Ilin V., Bjeljic P.: КАЛКУЛАТОР ЕКСТЕРНИХ ТРОШКОВА У ДРУМСКОМ РОБНОМ ТРАНСПОРТУ (KET1.0), 2017

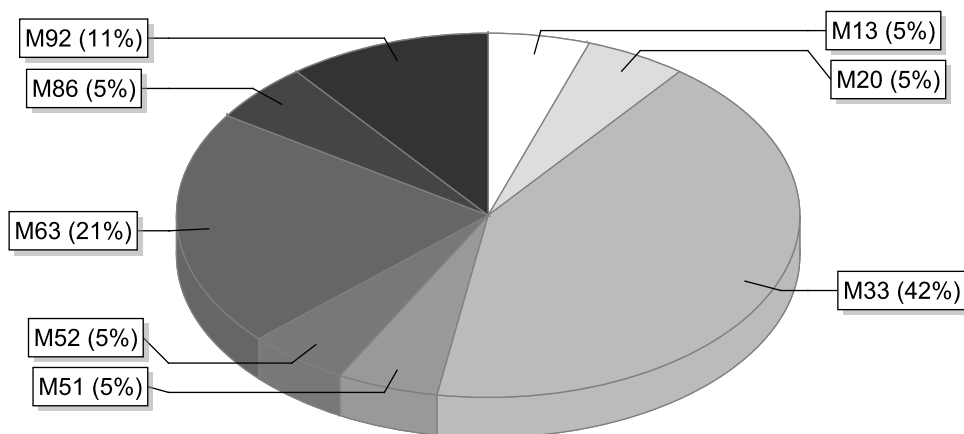


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za računarsku tehniku

Zbirni pregled naučno istraživačkih rezultata u 2017. 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
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	4
Kritička evaluacija podataka, baza podataka,	M86	1
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	2



## PRODUKCIJA - REZULTATI

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

1. Milovanovic D., Kukolj D., Bojkovic Z.: Recent Advances on 3D Video Coding Technology: HEVC Standardization Framework, in Connected Media in the Future Internet Era, A. Konoz, T. Dagiuklas (eds.), New York, Springer Science, 2017, str. 77-106, ISBN 978-1-4939-4024-0, UDK: DOI 10.1007/978-1-4939-4026-4\_4

Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Perić M., Perić D., Todorović B., Popović M.: Dynamic Rain Attenuation Model for Millimeter Wave Network Analysis, IEEE Transactions on Wireless Communications, 2017, Vol. 16, No 1, pp. 441-450, ISSN 1536-1276

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Bokan D., Kukolj D., Sandic-Stankovic D., Velikic G.: A No-reference Synthesized View Quality Assessment Using Statistical Features in Morphological Multiscale Domain, November 21-22, 25. Telekomunikacioni forum TELFOR, Beograd: IEEE, 21-22 Novembar, 2017, pp. 609-613, ISBN 978-1-5386-3073-0/17
2. Bokan D., Kukolj D., Sandic-Stankovic D.: Blind DIBR-Synthesized Image Quality Assessment based on Sparsity Features in Morphological Multiscale Domain, May 31-June 2, 9. Fifth International Workshop on Quality of Multimedia Experience 2013, Erfurt: IEEE, 31-2 Maj, 2017, pp. 1-3, ISBN 978-1-5386-4024-1/17, UDK: DOI:10.1109/QoMEX.2017.7965645
3. Busch C., Herlihy M., Popović M., Sharma G.: Fast Scheduling in Distributed Transactional Memory, 29. ACM Symposium on Parallelism in Algorithms and Architectures SPAA, Washington, 24-26 Jul, 2017, pp. 173-182, ISBN 978-1-4503-4593-4
4. Kordić B., Popović M., Gilezan S., Bašičević I.: An Approach to Formal Verification of Python Software Transactional Memory, 5. European Conference on the Engineering of Computer Based Systems ECBS, Larnaka, 31-1 Avgust, 2017, pp. 1-10, ISBN 978-1-4503-4843-0
5. Krunic M., Kovačević J., Popović M., Krunic V.: Instructions energy consumption on a heterogeneous multicore platform, 5. European Conference on the Engineering of Computer Based Systems ECBS, Larnaka, 31-1 Avgust, 2017, pp. 1-10, ISBN 978-1-4503-4843-0
6. Liu A., Popović M., Zhu H.: Formalization and Verification of the PSTM Architecture, 24. Asia-Pacific Software Engineering Conference, Nanjing, 4-8 Decembar, 2017, pp. 427-435
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Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Lebl A., Mitić D., Markov Ž., Šuh T., Mileusnić M., Jovanović P., Matić V., Trenkić B., Popović M., Tomić Ž., Daković P., Vidaković I., Mitrović B.: Razvoj postupaka simulacije saobraćajnih telekomunikacionih procesa u IRITEL-u u toku 45 godina, Tehnika, 2017, Vol. 66, No 3, pp. 383-391, ISSN 0040-2176

Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

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

1. Brkin D., Kordić B., Popović M.: Jedno Rešenje CloudSim Simulacije Distribuirane STM, 61. ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku, Kladovo, 5-8 Jun, 2017, pp. 1-4, ISBN 978-86-7466-692-0
2. Kaštelan I., Popović M.: Studijski program: Računarsko inženjerstvo, 23. TREND - Trendovi razvoja, Zlatibor: Fakultet tehničkih nauka, 22-24 Februar, 2017, pp. 166-169, ISBN 978-86-7892-904-5
3. Popović M., Kordić B., Popović M., Bašičević I.: Napredni algoritam za raspoređivanje TM transakcija sa izbegavanjem konflikata, 25. Telekomunikacioni forum TELFOR, Beograd, 21-22 Novembar, 2017, pp. 844-847, ISBN 978-1-5386-3073-0

4. Radosavljević V., Popović M., Jovanović P., Petrović S.: Prilagođenje uvezivača GOLD za arhitekturu MIPS64, 61. ETRAN - Konferencija za elektroniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku, Kladovo, 5-8 Jun, 2017, pp. 1-4, ISBN 978-86-7466-692-0

Spisak rezultata M86 - Kritička evaluacija podataka, baza podataka,

1. Kukolj D.: An overview of developments and standardization activities in immersive media, 2017, UDK: VQEG eLetter, November 2017, [ftp://vqeg.its.blrdoc.gov/eLetter/Issues/VQEG\\_eLetter\\_vol03\\_issue1.pdf](ftp://vqeg.its.blrdoc.gov/eLetter/Issues/VQEG_eLetter_vol03_issue1.pdf)

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

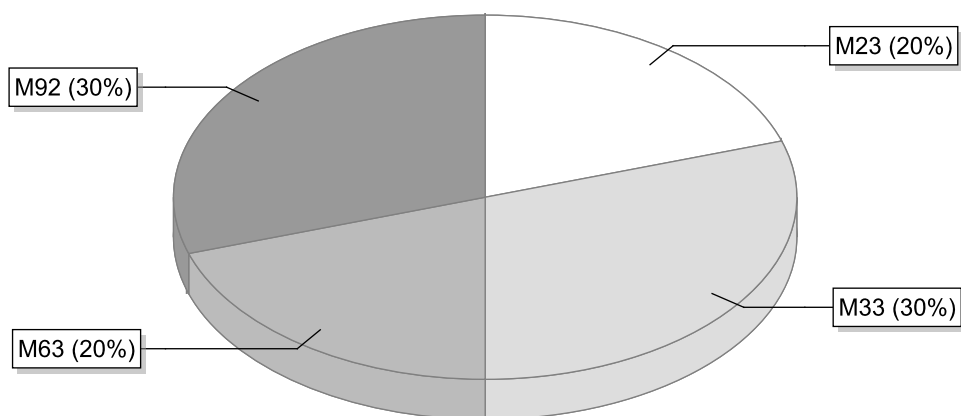
1. Bjelica M., Marinković V., Đukić M., Kaštelan I.: Metod za adaptivni video prenos sa kamera u vozilu, Beograd, Zavod za intelektualnu svojinu Republike Srbije, 2017
2. Vranić N., Kaštelan I., Đukić M., Marinković V.: Postupak prilagođavanja obrade multimedijalnog sadržaja u digitalnom prijemniku, Beograd, Zavod za intelektualnu svojinu Republike Srbije, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za računarske komunikacije

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu	M23	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	3
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	2
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	3



## PRODUKCIJA - REZULTATI

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Lukač Ž., Temerinac M.: Fast Edge-Preserving Gravity-Like Image Interpolation, Computer Science and Information Systems, 2017, Vol. 14, No 1, pp. 153-173, ISSN 1820-0214
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### Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Kaštelan I., Temerinac M.: Lessons Learned and Post-Project Activities with Embedded Engineering Learning Platform, 8. IEEE Global Engineering Education Conference - EDUCON, Atina: IEEE Education Society, 25-28 April, 2017
2. Krunić M., Kovačević J., Popović M., Krunić V.: Instructions energy consumption on a heterogeneous multicore platform, 5. European Conference on the Engineering of Computer Based Systems ECBS, Larnaka, 31-1 Avgust, 2017, pp. 1-10, ISBN 978-1-4503-4843-0
3. Radanović D., Kaštelan I., Vidović M., Prodanović R.: One Solution for Persistent Data Storage in Automotive Industry, 2. IEEE Zooming Innovation in Consumer Electronics International Conference ZINC, Novi Sad: IEEE Consumer Electronics Society, 31-1 Maj, 2017

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

1. Kaštelan I., Popović M.: Studijski program: Računarsko inženjerstvo, 23. TREND - Trendovi razvoja, Zlatibor: Fakultet tehničkih nauka, 22-24 Februar, 2017, pp. 166-169, ISBN 978-86-7892-904-5
2. Vranješ M., Velikić G., Kaštelan I., Vranješ D.: Projekt DRIVE - put sveučilišta k automotiv industriji, 37. KoREMA Automatizacija u prometu, Rijeka: KoREMA, 15-18 Novembar, 2017

### Spisak rezultata M92 - Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo

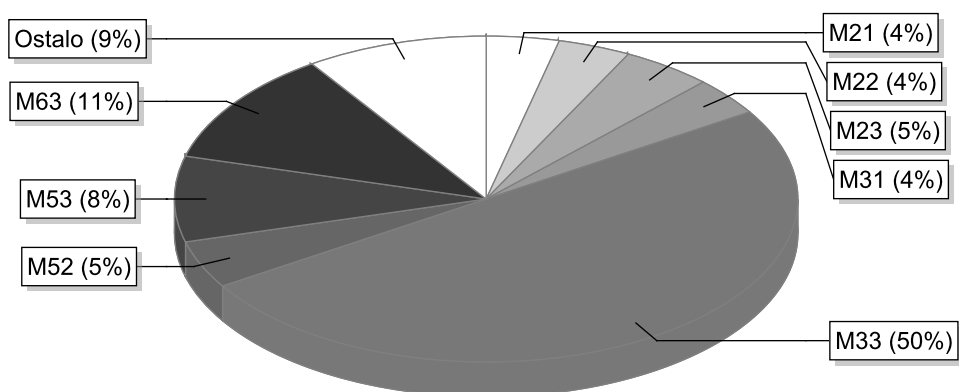
1. Bjelica M., Marinković V., Đukić M., Kaštelan I.: Metod za adaptivni video prenos sa kamera u vozilu, Beograd, Zavod za intelektualnu svojinu Republike Srbije, 2017
2. Subotić M., Pjevalica N., Kaštelan I., Nikolić M.: Postupak prenosa obimne količine podataka između perifernog uređaja i virtuelne memorije, Beograd, Zavod za intelektualnu svojinu Republike Srbije, 2017
3. Vranić N., Kaštelan I., Đukić M., Marinković V.: Postupak prilagođavanja obrade multimedijalnog sadržaja u digitalnom prijemniku, Beograd, Zavod za intelektualnu svojinu Republike Srbije, 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za građevinarstvo i geodeziju

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	4
Rad u međunarodnom časopisu	M23	5
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	2
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	4
Saopštenje sa međunarodnog skupa štampano u celini	M33	53
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Monografska bibliografska publikacija	M43	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	5
Rad u naučnom časopisu	M53	9
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	12
Odbranjena doktorska disertacija	M71	2

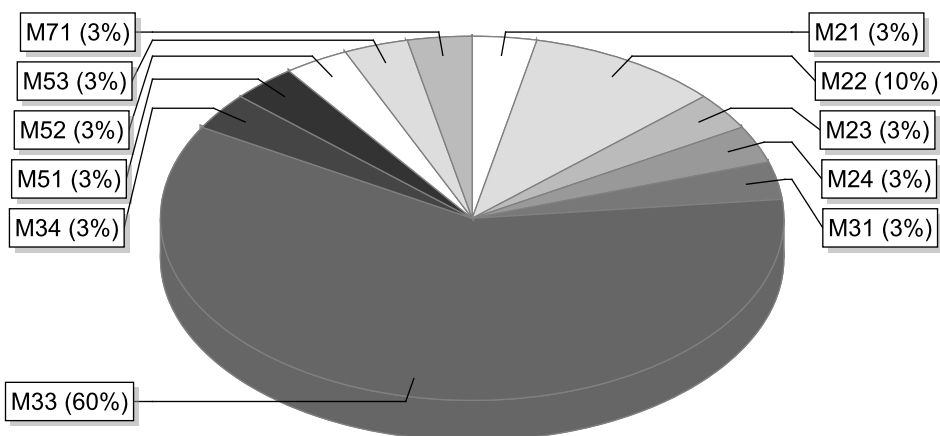


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za konstrukcije

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	3
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	18
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Rad u naučnom časopisu	M53	1
Odbranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

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

1. Vukobratović V., Fajfar P.: Code-oriented floor acceleration spectra for building structures, Bulletin of Earthquake Engineering, 2017, Vol. 15, No 7, pp. 3013-3026, ISSN 1570-761X

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

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2. Lee V., Trifunac M., Bulajić B., Manić M., Herak D., Herak M., Dimov G.: Seismic microzoning in Skopje, Macedonia, Soil Dynamics and Earthquake Engineering, 2017, Vol. 98, pp. 166-182, ISSN 0267-7261
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### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Rašeta A., Lađinović Đ., Radujković (Vukić) A.: THE ESTIMATION OF SEISMIC PERFORMANCES OF REINFORCED CONCRETE GIRDER BRIDGES USING NONLINEAR DYNAMIC ANALYSIS, Tehnicki vjesnik - Technical Gazette, 2017, Vol. 24, No 2, pp. 489-496, ISSN 1330-3651

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

1. Jovanović Đ., Žarković D., Brujić Z., Lađinović Đ.: FIBER BEAM-COLUMN ELEMENT IMPLEMENTATION IN ACADEMIC CAD SOFTWARE MATRIX 3D, Građevinski materijali i konstrukcije, 2017, Vol. 2, No 60, pp. 57-77, ISSN 2217-8139, UDK: 624.072.2/.3:004.4

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

1. Džolev I., Lađinović Đ., Cvetkovska M., Radujković (Vukić) A., Rašeta A.: Seismic response of RC frame structure modelled according to EN 1992-1-1 and EN 1992-1-2, 17. International Symposium MASE, Ohrid: MASE - Macedonian Association of Structural Engineers Faculty of Civil Engineering, 4-7 Oktobar, 2017, pp. 407-413, ISBN 978-608-4510-32-1
2. Džolev I., Lađinović Đ., Rašeta A., Laban M.: Thermo-mechanical properties of reinforced concrete at elevated temperatures, 12. Risk and Safety Engineering, Kopaonik: Visoka tehnička škola strukovnih studija u Novom Sadu, 9-11 Januar, 2017, pp. 88-98, ISBN 978-86-6211-107-4
3. Jeftenić G., Kolaković S., Rašeta A., Kolaković S., Šešlija M.: MODELING INFLUENCE OF ICE ON WIND TURBINE STRUCTURE, 17. International Symposium MASE, Ohrid: MASE - Macedonian Association of Structural Engineers Faculty of Civil Engineering, 4-7 Oktobar, 2017, pp. 607-614, ISBN 978-608-4510-32-1
4. Jovanović Đ., Vukobratović V., Žarković D.: An Overview of the Seismic Design of Steel Storage Racks, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5
5. Kolaković S., Jeftenić G., Kolaković S., Šešlija M., Rašeta A.: ASSESSMENT AND REPAIR OF RC WALL FOR DEFENSE AGAINST SAVA FLOOD WATERS, 5. Savremena dostignuća u građevinarstvu, Subotica: Građevinski fakultet u Subotici, 21-22 April, 2015, pp. 675-683, ISBN 978-86-80297-68-2, UDK: 627.418
6. Manojlović D., Radujković (Vukić) A., Kočetov Mišulić T.: Application of Ritz method in analysis of timber-concrete composite system, 17. International Symposium MASE, Ohrid: MASE - Macedonian Association of Structural Engineers, Faculty of Civil Engineering, 4-7 Oktobar, 2017, pp. 721-728, ISBN 978-608-4510-32-1
7. Marinković M., Milović (Tatomirović) T., Matić B.: ZEOLITE AS ADDITIVE IN WARM MIX ASPHALT, 5. Savremena dostignuća u građevinarstvu, Subotica: Univerzitet u Novom Sadu, Građevinski fakultet Subotica, 21-22 April, 2015, pp. 483-490, ISBN 978-86-80297-68-2, UDK: 665.775.4
8. Miličić I., Prokić A., Lađinović Đ.: Computer simulation of the order frequencies amplitudes excitation on response dynamic 1D models, 5. Savremena dostignuća u građevinarstvu, Subotica: University of Novi Sad, Faculty of civil engineering Subotica, 21-22 April, 2017, pp. 311-320, ISBN 978-86-80297-68-2, UDK: 531.3
9. Novaković N., Radonjanin V., Malešev M., Lukić I., Šupić S., Lađinović Đ., Kovačević D.: REPAIR OF PRESTRESSED RC STRUCTURE OF ROAD BRIDGE OVER THE CANAL DTD ON THE ROAD ODŽACI -



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10. Radonjanin V., Malešev M., Šupić S., Lukić I., Draganić (Vukoslavče S., Rašeta A.): ASSESSMENT OF PRESTRESSED RC STRUCTURE OF ROAD BRIDGE OVER THE CANAL DTD ON THE ROAD ODŽACI - BAČKI GRAČAC, 10. Ocena stanja, održavanje i sanacija građevinskih objekata i naselja, Vršac: Savez građevinskih inženjera Srbije, 14-16 Jun, 2017, pp. 165-174, ISBN 978-86-88897-09-9
11. Radujković (Vukić) A., Starčev-Ćurčin A., Lađinović Đ., Džolev I.: Assessment of rc frame seismic performance related to confined concrete models, 17. International Symposium MASE, Ohrid: MASE, 4-7 Oktobar, 2017, pp. 486-491, ISBN 978-608-4510-32-1
12. Rajić N., Lađinović Đ., Rašeta A.: Assessment and nonlinear dynamic analysis of base isolation for multi-story RC building, 17. International Symposium MASE, Ohrid: Društvo građevinskih konstruktora Makedonije, 4-7 Oktobar, 2017, pp. 492-501, ISBN 978-608-4510-32-1
13. Rajić N., Lađinović Đ.: Nonlinear static seismic analysis of multi-story RC building, 5. Savremena dostignuća u građevinarstvu, Subotica: Univerzitet u Novom Sadu, Građevinski fakultet Subotica, 21-22 April, 2017, pp. 287-295, ISBN 978-86-80297-68, UDK: 624.042.7
14. Rašeta A., Džolev I., Starčev-Ćurčin A., Lađinović Đ., Kukaras D.: Use of finite element method for simulation of RC beam nonlinear behavior, 5. Savremena dostignuća u građevinarstvu, Subotica: Univerzitet u Novom Sadu, Građevinski fakultet Subotica, 21-22 April, 2015, pp. 243-252, ISBN 978-86-80297-68-2, UDK: 624.072.2:517.9
15. Starčev-Ćurčin A., Malešev M., Kukaras D., Rašeta A., Žarković D.: ANALYSIS AND DESIGN OF RC DEEP BEAM USING THE "ST METHOD" PROGRAM, 5. Savremena dostignuća u građevinarstvu, Subotica: Građevinski fakultet u Subotici, 21-22 April, 2017, pp. 209-218, ISBN 978-86-80297-68-2, UDK: 624.072.2.012.45
16. Starčev-Ćurčin A., Rašeta A., Lađinović Đ., Kukaras D., Džolev I.: Behavior analysis of RC wall designed by strut-and-tie method, 5. Savremena dostignuća u građevinarstvu, Subotica: Univerzitet u Novom Sadu, Građevinski fakultet Subotica, 21-22 April, 2015, pp. 305-310, ISBN 978-86-80297-68-2, UDK: 624.07:004.42
17. Starčev-Ćurčin A.: Design of reinforced concrete wall with two overhangs using Strut-and-Tie method, 17. International Symposium MASE, Ohrid: Društvo građevinskih konstruktora Makedonije, 4-7 Oktobar, 2017, pp. 810-815, ISBN 978-608-4510-32-1
18. Vukobratović V., Fajfar P.: Floor spectra for analysis of acceleration-sensitive equipment in buildings, 1. International Conference on Earthquake Engineering and Structural Dynamics, Reykjavik, 12-14 Jun, 2017, pp. 1-9

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Laban M., Kočetov Mišulić T., Draganić (Vukoslavče S., Džolev I.): Fire safety in regulations, research and future challenges, 1. COST FP 1404 MC and WG meeting: "Dissemination, standardization and implementation of novel improvements", Prag: RISE Research institutes of Sweden, 2-3 Februar, 2017, pp. 52-56, ISBN 978-91-88349-91-0

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Lee V., Trifunac M., Bulajić B., Manić M., Herak D., Herak M.: Seismic microzoning of Kraljevo in Serbia, Izgradnja, 2017, Vol. 71, No 5-6, pp. 159-178, ISSN 0350-5421

Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Radujković (Vukić) A., Starčev-Ćurčin A., Lađinović Đ.: Modeli utegnutog betona prema Evrokodu 2 i Evrokodu 8 i njihov uticaj na seizmički odgovor AB okvira, Zbornik radova Građevinskog fakulteta, 2017, No 31, pp. 9-20, ISSN 0352-6852, UDK: 624.012.4.042.7

Spisak rezultata M53 - Rad u naučnom časopisu

1. Laban M., Kočetov Mišulić T., Draganić (Vukoslavče S.): Fire statistics and risk analysis in wooden building structures in Serbia, INTERNATIONAL WOOD PRODUCTS JOURNAL, 2017, Vol. 8, No 2, pp. 62-70, ISSN Print: 2042-6445 Onl

Spisak rezultata M71 - Odbranjena doktorska disertacija

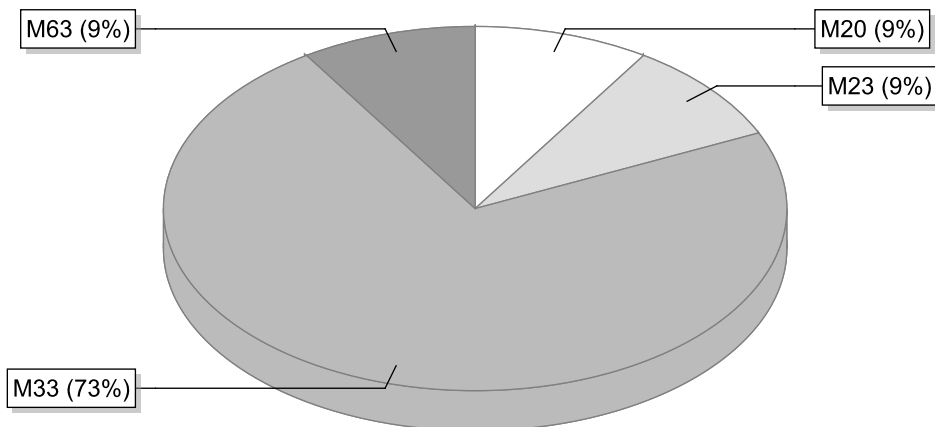
1. Starčev-Ćurčin A.: Optimizacija i analiza armiranobetonskih ravanskih nosača primenom metode pritisnutih štapova i zatega, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za geotehniku i saobraćajnice

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

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

1. Peško I., Mučenski V., Šešlija M., Radović N., Vujkov A., Bibić (Đorđević) D., Krklješ M.: Estimation of Costs and Durations of Construction of Urban Roads Using ANN and SVM, Complexity, 2017, Vol. 2017, ISSN 1076-2787, UDK: <https://doi.org/10.1155/2017/2450370>

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Šešlija M., Radović N., Vasić M., Đogo M., Jotić M.: Physico-mechanical properties of fly ash applicable in road construction, Građevinar, 2017, Vol. 69, No 10, pp. 923-932, ISSN 0350-2465

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

1. Đogo M., Vasić M.: Detailed Geotechnical Investigations of the Landslide Bocke, 9. Heavy Machinery-HM, Zlatibor: FACULTY OF MECHANICAL AND CIVIL ENGINEERING IN KRALJEVO, 28-1 Jun, 2017, pp. 41-44, ISBN 978-86-82631-89-7
2. Jeftenić G., Kolaković S., Rašeta A., Kolaković S., Šešlija M.: MODELING INFLUENCE OF ICE ON WIND TURBINE STRUCTURE, 17. International Symposium MASE, Ohrid: MASE - Macedonian Association of Structural Engineers Faculty of Civil Engineering, 4-7 Oktobar, 2017, pp. 607-614, ISBN 978-608-4510-32-1
3. Jeftenić G., Kolaković S., Šešlija M., Kolaković S.: ASSESSMENT AND PROPOSAL OF REPARATION OF EARTH DAM MESIĆ NEAR VRŠAC, 1. Construction Materials for Sustainable Future, Zadar: Sveučilište u Zagrebu, Građevinski fakultet, Zagreb, 19-21 April, 2017, pp. 578-582, ISBN 978-953-8168-04-8
4. Kolaković S., Jeftenić G., Kolaković S., Šešlija M., Rašeta A.: ASSESSMENT AND REPAIR OF RC WALL FOR DEFENSE AGAINST SAVA FLOOD WATERS, 5. Savremena dostignuća u građevinarstvu, Subotica: Gradjevinski fakultet u Subotici, 21-22 April, 2015, pp. 675-683, ISBN 978-86-80297-68-2, UDK: 627.418
5. Marinković M., Matić B., Marinković G.: EFFECT OF AIR TEMPERATURE ON PAVEMENT STRUCTURE, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-3
6. Marinković M., Matić B.: CORRELATION BETWEEN PAVEMENT DEFLECTION AND DCP, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad, 8-10 Jun, 2017, pp. 1-4, ISBN 978-86-7892-934-3
7. Marinković M., Milović (Tatomirović T., Matić B.: ZEOLITE AS ADDITIVE IN WARM MIX ASPHALT , 5. Savremena dostignuća u građevinarstvu, Subotica: Univerzitet u Novom Sadu, Građevinski fakultet Subotica, 21-22 April, 2015, pp. 483-490, ISBN 978-86-80297-68-2, UDK: 665.775.4
8. Vasić M., Đogo M.: Some aspects of tunnel construction in the Fruška Gora mountain, 7. Geotechnics in Civil Engineering, Šabac: Association of Civil Engineers of Serbia, 14-17 Novembar, 2017, pp. 259-268, ISBN 978-86-88897-10-5, UDK: 624.3(23) (497.113)

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

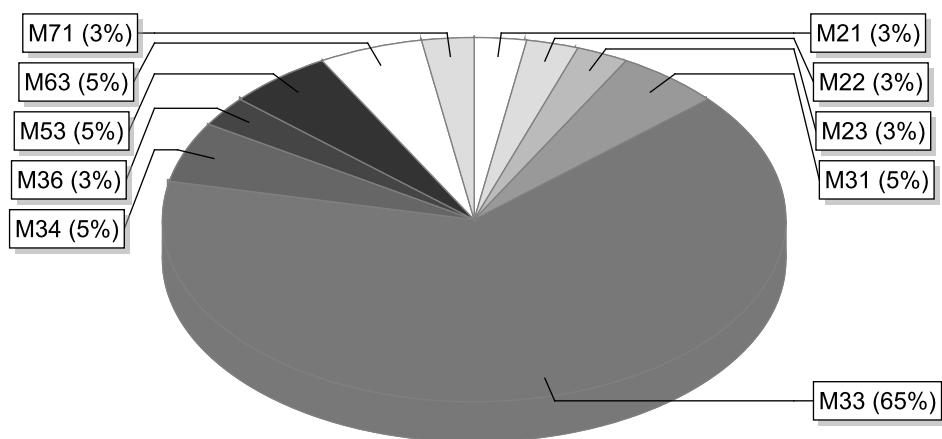
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za građevinske materijale, procenu stanja i sanaciju konstrukcija

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	1
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	24
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Uređivanje zbornika saopštenja međunarodnog naučnog skupa	M36	1
Rad u naučnom časopisu	M53	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	2
Obranjena doktorska disertacija	M71	1



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

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

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### Spisak rezultata M23 - Rad u međunarodnom časopisu

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

1. Laban M., Radonjanin V.: Izgradnja otpornosti društva na hazarde kroz unapređenje kapaciteta u visokom obrazovanju, 10. Ocena stanja, održavanje i sanacija građevinskih objekata i naselja, Vršac: Savez građevinskih inženjera Srbije, 14-16 Jun, 2017, pp. 5-68, ISBN 98-86-88897-09-9
2. Lukić I.: Comparative analysis of the basic properties of structural concrete made with different types of lightweight aggregates, 27. Simpozijum o istraživanjima i primeni savremenih dostignuća u našem građevinarstvu u oblasti materijala i konstrukcija, Vršac: Društvo za ispitivanje i istraživanje materijala i konstrukcija Srbije, 18-20 Oktobar, 2017, pp. 29-44, ISBN 978-86-87615-08-3

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

1. Ćirić D., Laban M., Draganić (Vukoslavče S., Pojani E., Radonjanin V.): TOWARDS RESILIENCE IN WESTERN BALKAN REGION: ENHANCING KNOWLEDGE AND FINANCIAL PREPAREDNESS IN DISASTER RISK MANAGEMENT, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS ICET 2017, Conference Secretariat, Faculty of Technical Sciences, 8-10 Jun, 2017, ISBN 978-86-7892-934-2
2. Draganić (Vukoslavče S., Laban M., Radonjanin V., Šupić S., Knežević D.): FIRE SAFETY-BASED TYPOLOGY OF FAÇADES, 12. Risk and Safety Engineering, Kopaonik: Visoka tehnička škola strukovnih studija, 9-11 Januar, 2017, pp. 226-233, ISBN 978-86-6211-107-4
3. Dražić J., Malešev M., Vujkov A.: Life Cycle Cost Analysis for Optimizing the Facade Cladding Selection, 27. International Symposium on researching and application of contemporary achievements in civil engineering in the field of materials and structures, Vršac: Society for materials and structures testing of Serbia, 18-20 Oktobar, 2017, pp. 355-362, ISBN 978-86-87615-08-3
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5. Jevtić M., Novaković T., Laban M., Tamaš T.: Knowledge (Education) as an important factor in decreasing Population Vulnerability (experiences from UNS - FTN), 1. K-FORCE: Knowledge for resilient society, Novi Sad: Higher Technical School of Professional Studies and Faculty of Technical Sciences, 14 Septembar, 2017, pp. 180-186, ISBN 978-86-6211-109-8
6. Krnjetin S., Šupić S.: ANALYSIS OF SITUATION IN THE FIRE PROTECTION DESIGN AND UNIVERSAL DESIGN IN SERBIA, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS ICET 2017, Conference Secretariat, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
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12. Novaković T., Bondžić (Simić) J., Čosić Đ., Popov S., Miškić M.: Flood Risk Damage Assessment, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department for Industrial Engineering and Management, 4-6 Oktobar, 2017, pp. 410-413, ISBN 978-86-7892-978-6
13. Novaković T., Bondžić (Simić) J., Popov S., Čosić Đ.: Flood Simulation for Expected Damage Calculation, 8. ITRO - International Conference on Information Technology and Development of Education, Zrenjanin: University of Novi Sad, Technical faculty „Mihajlo Pupin”, Zrenjanin, Republic of Serbia, 22 Jun, 2017, pp. 215-219, ISBN 978-86-7672-302-7
14. Radeka M., Malešev M., Radonjanin V., Šupić S., Ducman V.: BASIC PROPERTIES OF CONCRETE WITH AGGREGATE BASED ON ALKALI ACTIVATED FLY ASH, 17. International Symposium MASE, Ohrid: MASE - Macedonian Association of Structural Engineers, Faculty of Civil Engineering, 4-7 Oktobar, 2017, pp. 793-801, ISBN 978-608-4510-32-1
15. Radonjanin V., Malešev M., Lukić I., Šupić S., Draganić (Vukoslavče S.): MASONRY STRUCTURE OF CHURCH IN RUMA - PART 1: THE ASSESSMENT, 1. Construction Materials for Sustainable Future, Zadar: Sveučilište u Zagrebu, Građevinski fakultet, 19-21 April, 2017, pp. 589-596, ISBN 978-953-8168-04-8
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17. Starčev-Čurčin A., Malešev M., Kukaras D., Rašeta A., Žarković D.: ANALYSIS AND DESIGN OF RC DEEP BEAM USING THE "ST METHOD" PROGRAM, 5. Savremena dostignuća u građevinarstvu, Subotica: Građevinski fakultet u Subotici, 21-22 April, 2017, pp. 209-218, ISBN 978-86-80297-68-2, UDK: 624.072.2.012.45
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19. Šupić S., Laban M., Malešev M., Radonjanin V., Lukić I.: FIRE RISK ASSESSMENT OF SPORT-RECREATION FACILITY, 12. Risk and Safety Engineering, Kopaonik: Visoka tehnička škola strukovnih studija, 9-11 Januar, 2017, pp. 325-331, ISBN 978-86-6211-107-4
20. Šupić S., Laban M.: DISASTER RISK ASSESSMENT IN SERBIA – METHODOLOGY DEVELOPMENT, 1. K-FORCE: Knowledge for resilient society, Novi Sad: Higher education technical school of professional studies, 14 Septembar, 2017, pp. 248-254, ISBN 978-86-6211-109-8
21. Šupić S., Radonjanin V., Malešev M.: SUSTAINABLE USE OF BIOMASS ASH IN CONCRETE INDUSTRY, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS ICET 2017 Conference Secretariat, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
22. Uljarević M., Šupić S., Kasterlic Ž.: CONVERGENCE MEASUREMENTS AND DATA ANALYSIS IN THE ACCESS TUNNEL OF DERIVATION TUNNEL, 27. Simpozijum o istraživanjima i primeni savremenih dostignuća u našem građevinarstvu u oblasti materijala i konstrukcija, Vršac: Duštvo za ispitivanje i istraživanje materijala i konstrukcija Srbije, 18-20 Oktobar, 2017, pp. 233-242, ISBN 978-86-87615-08-3
23. Uljarević M., Šupić S.: RISK ASSESSEMENT FOR THE HYDROTECHNICAL TUNNEL PROJECT, 12. Risk and Safety Engineering, Kopaonik: Visoka tehnička škola strukovnih studija, 9-11 Januar, 2017, pp. 53-58, ISBN 978-86-6211-107-4
24. Uljarević M., Šupić S.: STATE ANALYSIS OF CONSTRUCTION OF DERIVATION TUNNEL IN HERZEGOVINA, 5. Savremena dostignuća u građevinarstvu, Subotica: UNIVERZITET U NOVOM SADU, GRAĐEVINSKI FAKULTET SUBOTICA, 21-22 April, 2015, pp. 517-526, ISBN 978-86-80297-68-2

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Laban M., Draganić (Vukoslavče S.: Fire Safety of High Rise Buildings in Serbia, 1. FACADES WORKSHOP Fire Safe Use of Bio-Based Building Products for Facades - Challenges and Limitations, Deetailing and Testing, Barcelona: Polytechnic University of Catalonia UPS, 9-10 Novembar, 2017, pp. 27-32, ISBN 978-84-9880-685-4
2. Laban M., Kočetov Mišulić T., Draganić (Vukoslavče S., Džolev I.: Fire safety in regulations, research and future challenges, 1. COST FP 1404 MC and WG meeting: "Dissemination, standardization and implementation of novel improvements", Prag: RISE Research institutes of Sweden, 2-3 Februar, 2017, pp. 52-56, ISBN 978-91-88349-91-0

Spisak rezultata M36 - Uređivanje zbornika saopštenja međunarodnog naučnog skupa

1. Laban M.: Book of Proceedings, 1. K-FORCE: Knowledge for resilient society, Novi Sad: Visoka tehnička škola strukovnih studija i Fakultet tehničkih nauka, 14 Septembar, 2017, ISBN 978-86-6211-109-8

Spisak rezultata M53 - Rad u naučnom časopisu

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2. Laban M., Kočetov Mišulić T., Draganić (Vukoslavče S.: Fire statistics and risk analysis in wooden building structures in Serbia, INTERNATIONAL WOOD PRODUCTS JOURNAL, 2017, Vol. 8, No 2, pp. 62-70, ISSN Print: 2042-6445 Onl

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

1. Krnjetin S., Šupić S.: ANALIZA POŽARA NA SAKRALNIM OBJEKTIMA, 4. Primenjena zaštita i njeni trendovi, Zlatibor: Međunarodni institut za primenjeno upravljanje znanjem, 20-22 Septembar, 2017, pp. 160-168, ISBN 978-86-80048-09-3
2. Krnjetin S., Šupić S.: ГРАЂЕЊЕ БАЛИРАНОМ СЛАМОМ – ПОЖАРНА БЕЗБЕДНОСТ, 4. Primenjena zaštita i njeni trendovi, Zlatibor: Međunarodni institut za primenjeno upravljanje znanjem, 20-22 Septembar, 2017, pp. 169-177, ISBN 978-86-80048-09-3

Spisak rezultata M71 - Odbranjena doktorska disertacija

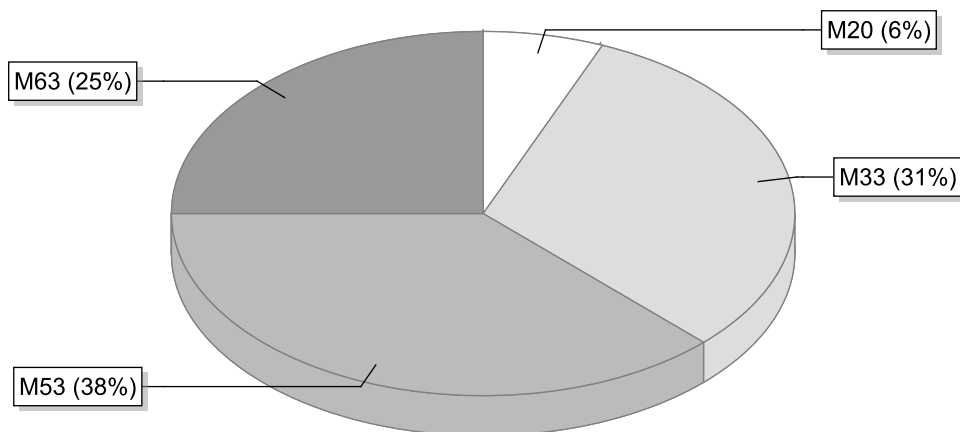
1. Bulatović V.: Sulfatna otpornost betona na bazi recikliranog agregata, Novi Sad, Fakultet tehničkih nauka, 2017, str. 1-449

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za organizaciju i tehnologiju građenja

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Rad u naučnom časopisu	M53	6
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	4





## PRODUKCIJA - REZULTATI

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

1. Peško I., Mučenski V., Šešlija M., Radović N., Vujkov A., Bibić (Đorđević) D., Krklješ M.: Estimation of Costs and Durations of Construction of Urban Roads Using ANN and SVM, Complexity, 2017, Vol. 2017, ISSN 1076-2787, UDK: <https://doi.org/10.1155/2017/2450370>

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

1. Bibić (Đorđević) D., Vujkov A., Peško I., Mučenski V., Čirović G.: Estimation of recycling capacity of multi-storey building structures using ANN, 5. Savremena dostignuća u građevinarstvu, Subotica: Univerzitet u Novom Sadu, Građevinski fakultet Subotica, 21-22 April, 2017, pp. 921-929, ISBN 978-86-80297-68-2, UDK: 004.8.032.26:502.174.1
2. Dražić J., Malešev M., Vujkov A.: Life Cycle Cost Analysis for Optimizing the Facade Cladding Selection, 27. International Symposium on researching and application of contemporary achievements in civil engineering in the field of materials and structures, Vršac: Society for materials and structures testing of Serbia, 18-20 Oktobar, 2017, pp. 355-362, ISBN 978-86-87615-08-3
3. Mučenski V., Kecman N., Peško I., Bibić (Đorđević) D., Vujkov A., Velkovski T.: RISK ASSESSMENT OF HEALTH AND SAFETY AT WORK FOR FACILITIES DEMOLITION, 17. International Symposium MASE, Ohrid: MASE - Macedonian Association of Structural Engineers, 4-7 Oktobar, 2017, pp. 340-348, ISBN 978-608-4510-32-1
4. Peško I., Marković G., Mučenski V., Vujkov A., Bibić (Đorđević) D.: MODELS FOR ESTIMATING CONSTRUCTION COSTS FOR RESIDENTIAL BUSINESS BUILDINGS, 1. Symposium on Operational Research, Zlatibor: Visoka građevinsko-geodetska škola, Beograd, 25-28 Septembar, 2017, pp. 562-567, ISBN 978-86-7488-135-4
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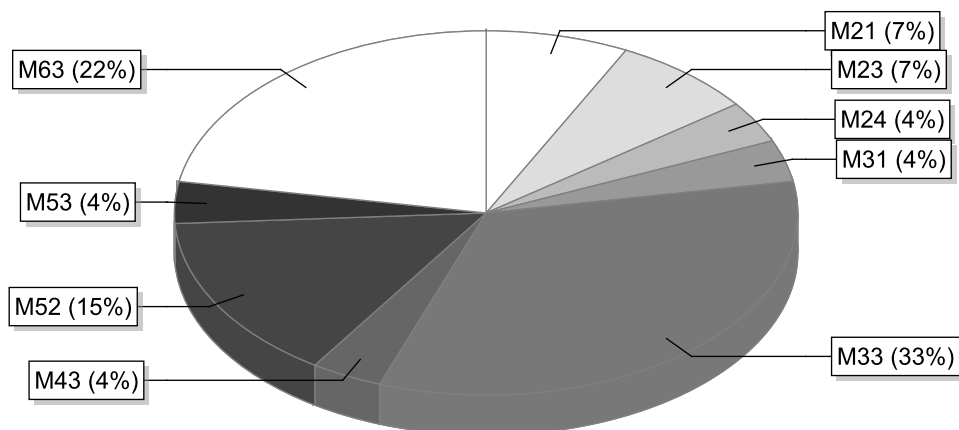
4. Velkovski T., Čaloska J., Dudeski Lj., Mučenski V., Matevska B.: Примена на Делфи методата во научни истражувања од областа на безбедност и здравје при работа, 14. *Zaštita na radu – Put uspešnog poslovanja*, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 323-333, ISBN 978-86-919221-2-2

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za hidrotehniku i geodeziju

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u međunarodnom časopisu	M23	2
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	9
Monografska bibliografska publikacija	M43	1
Rad u časopisu nacionalnog značaja	M52	4
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	6



## PRODUKCIJA - REZULTATI

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

1. Bajić J., Marković M., Joža A., Vasić D., Ninkov T.: Design calibration and characterization of a robust low-cost fiber-optic 2D deflection sensor, *Sensors and Actuators A: Physical*, 2017, Vol. 267, pp. 278-286, ISSN 0924-4247, UDK: <https://doi.org/10.1016/j.sna.2017.10.014>
2. Frank A., Armenski T., Gocić M., Popov S., Popović Lj., Trajković S.: Influence of mathematical and physical background of drought indices on their complementarity and drought recognition ability, *Atmospheric Research*, 2017, Vol. 194, pp. 268-280, ISSN 0169-8095

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Sušić Z., Batilović M., Ninkov T., Bulatović V., Aleksić I., Nikolić G.: Geometric deformation analysis in free geodetic networks: case study for Fruška Gora in Serbia, *Acta Geodynamica et Geomaterialia*, 2017, Vol. 14, No 3, pp. 341-355, ISSN 2336-4351
2. Vranešević M., Belić S., Kolaković S., Kadović R., Bezdán A.: Estimating Suitability of Localities for Biotechnical Measures on Drainage System Application in Vojvodina, *Irrigation and Drainage*, 2017, Vol. 66, No 1, pp. 129-140, ISSN 1531-0353

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

1. Marinković G., Lazić J., Ilić Z.: THE BASIS FOR THE ESTABLISHMENT OF A DATABASE OF UTILITY LINES CADASTRE - REALISTIC APPROACH, *Arhiv za tehničke nauke - Archives for Technical Sciences*, 2017, No 17(1), pp. 57-66, ISSN 1840-4855, UDK: 005.8:004.738.5 ;DOI: 10.7251/afts.2017.0917.057M ;COBISS.RS-ID 6819096

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

1. Kolaković S., Kolaković S.: Zaštita od poplava na velikim rekama ravničarskog karaktera, 10. Ocena stanja, održavanje i sanacija građevinskih objekata i naselja, Vršac: Savez građevinskih inženjera Srbije, 14-16 Jun, 2017, pp. 33-56, UDK: 556.166 : 004.94

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

1. Božić R., Trifković M., Nestorović Ž., Lazić J.: LAND CONSOLIDATION – A NECESSARY CONDITION AND IMPERATIVE FOR AGRICULTURE PRODUCTION DEVELOPMENT, 8. International Scientific Agriculture Symposium "Agrosym", Jahorina: University of East Sarajevo, Faculty of Agriculture, Republic of Srpska, Bosnia, 5-8 Oktobar, 2017, pp. 2479-2484, ISBN 978-99976-718-1-3
2. Jeftenić G., Kolaković S., Rašeta A., Kolaković S., Šešlija M.: MODELING INFLUENCE OF ICE ON WIND TURBINE STRUCTURE, 17. International Symposium MASE, Ohrid: MASE - Macedonian Association of Structural Engineers Faculty of Civil Engineering, 4-7 Oktobar, 2017, pp. 607-614, ISBN 978-608-4510-32-1
3. Jeftenić G., Kolaković S., Šešlija M., Kolaković S.: ASSESSMENT AND PROPOSAL OF REPARATION OF EARTH DAM MESIĆ NEAR VRŠAC, 1. Construction Materials for Sustainable Future, Zadar: Sveučilište u Zagrebu, Građevinski fakultet, Zagreb, 19-21 April, 2017, pp. 578-582, ISBN 978-953-8168-04-8
4. Kolaković S., Jeftenić G., Kolaković S., Šešlija M., Rašeta A.: ASSESSMENT AND REPAIR OF RC WALL FOR DEFENSE AGAINST SAVA FLOOD WATERS, 5. Savremena dostignuća u građevinarstvu, Subotica: Građevinski fakultet Subotica, 21-22 April, 2015, pp. 675-683, ISBN 978-86-80297-68-2, UDK: 627.418
5. Kolaković S., Jeftenić G., Stipić M., Kolaković S., Budinski Lj.: FLOOD MODEL AT RACINOVCI AND RAJEVO SELO USING THE 2D MODEL IN HEC-RAS, 15. International Symposium on Water Management and Hydraulic Engineering, Primošten: Faculty of Civil Engineering Zagreb, 6-8 Septembar, 2017, ISBN 978-953-8168-16-1
6. Lazić J., Trifković M., Marinković G., Nestorović Ž., Davidović M.: ANALYSIS OF THE DEVELOPMENT AND IMPLEMENTATION OF 3D CADASTRE IN THE WORLD, Zbornik radova međunarodne konferencije "Savremena dostignuća u građevinarstvu", 2017, pp. 879-892, 5. Savremena dostignuća u građevinarstvu, Subotica: Građevinski fakultet Subotica, 21-22 April, 2017, pp. 879-892, ISBN 978-86-80297-68-2, UDK: 528.4:004.7, DOI:10.14415/konferencijaGFS2017.092
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8. Petković M., Ninkov T., Bulatović V., Batilović M., Ninkov J.: Application of Mobile Laser Scanning Technology in Making the as Built Projects of Industrial Objects (8799), 7. FIG Working Week 2017, Helsinki: International Federation of Surveyors, 29-2 Maj, 2017, pp. 1-13, ISBN 2307-4086

9. Petković M., Ninkov T., Bulatović V., Sabadoš I.: PRIMENA MOBILNOG LASERSKOG SKENIRANJA U CILJU KONTROLE STANJA I POVEĆANJA BEZBEDNOSTI KORIŠĆENJA SAOBRAČAJNICA, 12. BSLZ-Bezbednost saobraćaja u loknoj zajednici, Tara: FAKULTET TEHNIČKIH NAUKA – Univerzitet u Novom Sadu, 19-22 April, 2017, pp. 301-310, ISBN 978-86-7892-924-3

Spisak rezultata M43 - Monografska bibliografska publikacija

1. Doroslovački R., Vilotić D., Katić V., Kovačević I., Šešlija D., Kolaković S., Budak I., Konjović Z.: Doktorske akademske studije na Fakultetu tehničkih nauka u Novom Sadu – nekad i sad, Novi Sad, FTN izdavaštvo, Edicija „Tehničke nauke – monografije“, 2017, ISBN 978-86-6022-009-9

Spisak rezultata M52 - Rad u časopisu nacionalnog značaja

1. Lazić J., Ninkov T., Trifković M., Marinković G., Kuburić M.: ПРИМЕНА TOPSIS METODE ZA RANGIŠANJE KATASTARSKIH ОПШТИНА У ПРОЦЕСУ КОМАСАЦИЈЕ, Zbornik radova Građevinskog fakulteta, 2017, No 32, pp. 21-44, ISSN 0352-6852, UDK: 332.262
2. Marinković G., Lazić J., Trifković M., Ilić Z.: Uloga i značaj katastra za prostorno planiranje u Republici Srbiji, Zbornik radova Građevinskog fakulteta, 2017, No 31, pp. 49-65, ISSN 0352-6852, UDK: 71:528.44
3. Marinković G., Lazić J., Trifković M., Nestorović Ž.: ФИНАНСИЈСКА АНАЛИЗА И ПРОЦЕНА КОМАСАЦИОНОГ ПРОЈЕКТА НАДАЉ 2, Zbornik radova Građevinskog fakulteta, 2017, No 32, pp. 57-70, ISSN 0352-6852, UDK: 332.262:657
4. Trifković M., Lazić J., Marinković G., Nestorović Ž.: Izgradnja poljozaštitnih šumskih pojaseva u postupku komasacije, Zbornik radova Građevinskog fakulteta, 2017, No 31, pp. 67-85, ISSN 0352-6852, UDK: 630\*266:332.262

Spisak rezultata M53 - Rad u naučnom časopisu

1. Milić V., Marinković G.: Uloga katastra u razvoju gradskih područja, Zbornik radova Fakulteta tehničkih nauka, 2017, Vol. 32, No 5/2017, pp. 940-943, ISSN 0350-428X, UDK: 528.44

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

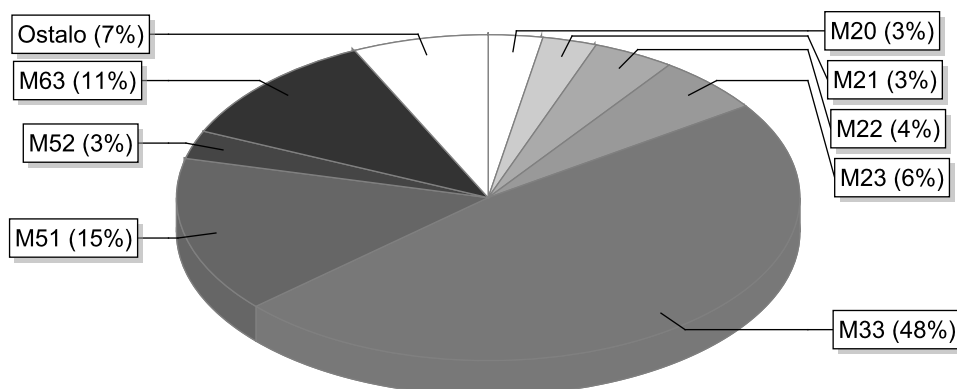
1. Doroslovački R., Šešlija D., Vilotić D., Kovačević I., Kolaković S., Katić V.: FTN i potrebe nastave IT sektora, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 104-108, ISBN 978-86-7892-904-5
2. Katić V., Doroslovački R., Vilotić D., Kovačević I., Šešlija D., Kolaković S.: Evaluacija nastave master studija na osnovu profesorskih ocena studenata i vice versa, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 66-69, ISBN 978-86-7892-904-5
3. Kolaković S., Doroslovački R., Katić V., Vilotić D., Kovačević I., Šešlija D., Mučenski V., Peško I.: Contribution of the Faculty of Technical Sciences to the economic benefits of New Science & Technology Park, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 315-318, ISBN 978-86-7892-904-5
4. Kovačević I., Doroslovački R., Katić V., Vilotić D., Kolaković S., Šešlija D., Zivlak V.: Unapređivanje vrsta i nivoa studija u visokom obrazovanju, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 256-260, ISBN 978-86-7892-904-5
5. Šešlija D., Doroslovački R., Katić V., Vilotić D., Kovačević I., Kolaković S.: Implementacija i evaluacija udaljenih eksperimenata na Fakultetu tehničkih nauka u Novom Sadu, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 118-125, ISBN 978-86-7892-904-5
6. Vilotić D., Doroslovački R., Kovačević I., Katić V., Šešlija D., Kolaković S., Konjović Z.: Analiza uspešnosti doktorskih akademskih studija na Fakultetu tehničkih nauka, 23. Trendovi razvoja TREND, Zlatibor, 22-24 Februar, 2017, pp. 77-83, ISBN 978-86-7892-904-5

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za saobraćaj

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	2
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	3
Rad u međunarodnom časopisu	M23	4
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	34
Rad u vodećem časopisu nacionalnog značaja	M51	11
Rad u časopisu nacionalnog značaja	M52	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	8
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1

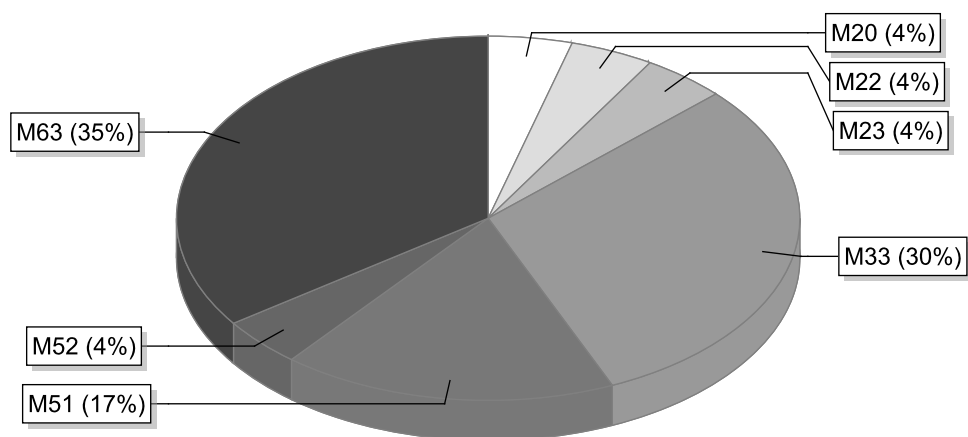


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za saobraćajne sisteme

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	7
Rad u vodećem časopisu nacionalnog značaja	M51	4
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	8



## PRODUKCIJA - REZULTATI

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

1. Jovanović D., Šraml M., Matović B., Mičić S.: An examination of the construct and predictive validity of the self-reported speeding behavior model, *Accident Analysis and Prevention*, 2017, Vol. 99, pp. 66-76, ISSN 0001-4575

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

1. Marić M., Gračanin D., Zogović N., Ruškić N., Ivanović B.: Parking search optimization in urban area, *International Journal of Simulation Modelling*, 2017, Vol. 16, No 2, pp. 195-206, ISSN 1726-4529

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Bogdanović V., Ruškić N., Basarić V., Tanackov I.: Capacity Analysis Procedure for Four-Leg Non-Standard Unsignalised Intersections, *Promet - Traffic and Transportation*, 2017, Vol. 29, No 5, pp. 543-550, ISSN 0353-5320

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

1. Kopic M., Sremac S.: Redefining the urban situation from the aspect of traffic in the area at the historic suburb of the Petrovaradin fortress, 6. Towards a humane city, Novi Sad, 26-27 Oktobar, 2017, ISBN 978-86-7892-962-5
2. Mitrović Simić J., Basarić V., Ivančević J., Garunović N.: The influence of in-vehicle technology on the visual attention, 6. Towards a humane city, Novi Sad: Fakultet tehničkih nauka, 26-27 Oktobar, 2017, pp. 371-377, ISBN 978-86-7892-962-5
3. Papić Z., Kopic M., Saulić N., Štetin G.: A shared space concept in Petrovaradin fortress suburb, 6. Towards a humane city, Novi Sad: Fakultet tehničkih nauka, Novi Sad, 26-27 Oktobar, 2017, pp. 197-203, ISBN 978-86-7892-962-5
4. Simeunović M., Pitka P., Basarić V., Simeunović M.: Model and software-based solution for implementing coordinated timed-transfer passenger transport system, 5. IEEE International Conference on Models and technologies for intelligent transportation systems, Napulj: IEEE, 26-28 Jun, 2017, pp. 304-309, ISBN 978-1-5090-6484-7
5. Simeunović M., Simeunović M., Pitka P.: Development of priority strategies for public transport vehicles, 6. Towards a humane city, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences, University of Novi Sad, 26-27 Oktobar, 2017, pp. 63-69, ISBN 978-86-7892-962-5
6. Sremac S., Tanackov I., Kopic M., Tadić Ž., Ziramov N.: Analysis of extraordinary events in the transport of dangerous goods by rail in the Republic of Serbia, 6. International Conference Transport and Logistics, Niš, 25-26 Maj, 2017, pp. 177-181, ISBN 978-86-6055-088-2
7. Vujičić A., Babić D., Basarić V., Mitrović Simić J.: Characteristics of cycling trips in Novi Sad, 6. Towards a humane city, Novi Sad: Fakultet tehničkih nauka, 26-27 Oktobar, 2017, pp. 299-308, ISBN 978-86-7892-962-5

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

1. Bačkalić S.: The time-space approach in the analysis of traffic safety on rural road, *Romanian Journal of Transport Infrastructure*, 2017, Vol. 6, No 1, pp. 66-76, ISSN 2286-2218
2. Kopic M.: Menadžment u isporuci pošiljaka sa opasnim materijama kurirskim službama, *Tehnika*, 2017, pp. 126-131, ISSN 0040-2176
3. Mitrović Simić J., Bogdanović V., Basarić V., Saulić N.: Istraživanje karakteristika ponašanja pešaka na nesignalisanim pešačkim prelazima, *Put i saobraćaj*, 2017, Vol. 63, No 1, pp. 13-18, ISSN 0478-9733
4. Simeunović M., Bogdanović V., Simeunović M.: Istorijski razvoj horizontalne i vertikalne signalizacije, *Put i saobraćaj*, 2017, No 2, pp. 35-41, ISSN 0478-9733, UDK: 625.77.8+651.1

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

1. Kopic M.: Uloga urbanih šinskih sistema i intermodalnog transporta u oblikovanju savremenih održivih gradova, *Ecologica*, 2017, ISSN 0354-3285

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

1. Bogdanović V., Papić Z., Ruškić N., Dragić D.: Empirijske vrednosti usporenja u zavisnosti od nagiba puta, 12. Savetovanje na temu saobraćajne nezgode, Zlatibor: Agencija Expert, 18-20 Maj, 2017, pp. 268-276, ISBN 978-85-86931-14-6



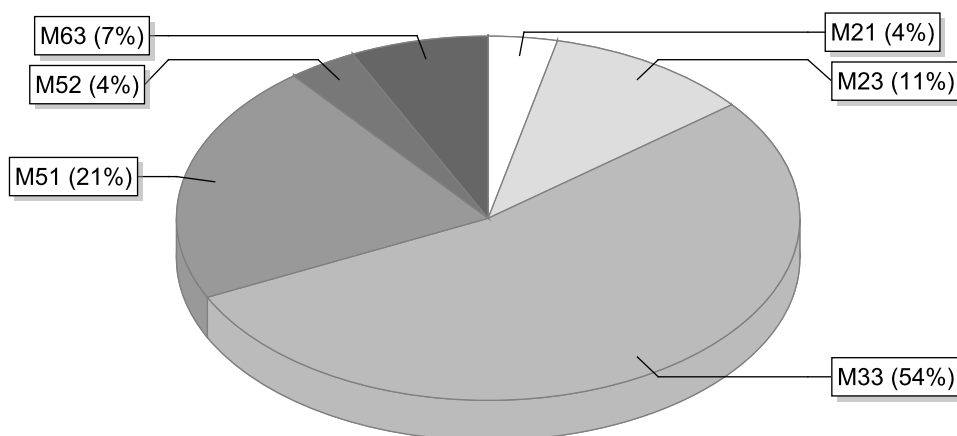
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3. Bulajić A., Jovanović D., Matović B.: Ponašanje vozača u saobraćaju , 3. Međunarodno naučno savetovanje: "Upravljanje znanjem i informatika", Kopaonik, 13-14 Januar, 2017, ISBN 978-86-6211-108-1
4. Bulajić A., Pljakić M., Matović B., Bačkalić T.: Proširena teorija planiranog ponašanja: Uloga personalnih normi u predviđanju ponašanja pešaka, 12. BSLZ- Bezbednost saobraćaja u loknoj zajednici, Tara: Fakultet tehničkih nauka - Univerzitet u Novom Sadu, 19-22 April, 2017, pp. 69-80, ISBN 978-86-7892-924-3
5. Matović B., Pljakić M., Jovanović D., Bačkalić S., Matović M.: Ljutnja u vožnji u Republici Srbiji, 6. Bezbednost saobraćaja u lokalnoj zajednici, Banja Luka: Agencija za bezbednost saobraćaja Republike Srpske, 26-27 Oktobar, 2017, pp. 91-97, ISBN 978-99976-618-9-0, UDK: 656.1:159.923.3 (497.11)
6. Papić Z., Saulić N., Mitrović Simić J., Štetin G.: Karakteristike kretanja biciklista u gradskim uslovima odvijanja saobraćaja , 12. Savetovanje na temu saobraćajne nezgode, Zlatibor, 18-20 Maj, 2017, pp. 349-356, ISBN 978-85-86931-14-6
7. Pljakić M., Matović B., Jovanović D., Bulajić A., Mičić S.: Primena GIS-a u prostorno-vremenskoj analizi saobraćajnih nezgoda sa pešacima, 6. Bezbednost saobraćaja u lokalnoj zajednici, Banja Luka: Agencija za bezbednost saobraćaja Republike Srpske, 26-27 Oktobar, 2017, pp. 109-118, ISBN 978-99976-618-9-0, UDK: 656.1.08:614.8
8. Simeunović M., Božić S., Pitka P., Simeunović M.: Ispitivanje pouzdanosti primene kočionog koeficijenta za utvrđivanje brzine kretanja kod vozila sa AB sistemom kočenja, 12. Savetovanje na temu saobraćajne nezgode, Zlatibor, 18-20 Maj, 2017, pp. 220-228, ISBN 978-85-86-931-14-6

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za tehnologije transportno logističkih sistema

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	15
Rad u vodećem časopisu nacionalnog značaja	M51	6
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	2



## PRODUKCIJA - REZULTATI

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

1. Stojić N., Pucarević M., Stojić G.: Railway transportation as a source of soil pollution, *Transportation Research Part D: Transport and Environment*, 2017, Vol. 57, pp. 124-129, ISSN 1361-9209, UDK: <https://doi.org/10.1016/j.trd.2017.09.024>

### Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Aleksić D., Marković M., Vasiljević M., Stojić G., Pavlović N., Tanackov I.: Analysis of impact of meteorological conditions on human factors in estimating the risk of railway accidents, *Transport*, 2017, pp. 1-14, ISSN 1648-4142
2. Bogdanović V., Ruškić N., Basarić V., Tanackov I.: Capacity Analysis Procedure for Four-Leg Non-Standard Unsignalised Intersections, *Promet - Traffic and Transportation*, 2017, Vol. 29, No 5, pp. 543-550, ISSN 0353-5320
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### Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Dupljanin Đ., Dumnić S., Savković T.: Innovation in the last mile delivery, 1. The 1st International Conference on Management, Engineering and Environment ICMNEE, Beograd: Regional Association for Security and crisis management-RABEK and European centre for operational research-ECOR, 28-29 Septembar, 2017, pp. 294-300, ISBN 978-86-80698-09-0
2. Gladović P., Deretić N.: Planning the Study of Public Passenger Transport by Microsoft Project 2010, 1. The 1st International Conference on Management, Engineering and Environment ICMNEE, Beograd: Regional Association for Security and Crisis Management - RABEK and European Centre for Operational Research - ECOR, 28-29 Septembar, 2017, pp. 137-148, ISBN 978-86-80698-09-0
3. Ilić S., Gladović P., Ilić B.: Professional Training of a Manager as Key Feature in Increasing Efficiency of Road Transport Companies, 1. The 1st International Conference on Management, Engineering and Environment ICMNEE, Beograd: Regional Association for Security and Crisis Management - RABEK and European Centre for Operational Research - ECOR, 28-29 Septembar, 2017, pp. 209-217, ISBN 978-86-80698-09-0
4. Kopic M., Sremac S.: Redefining the urban situation from the aspect of traffic in the area at the historic suburb of the Petrovaradin fortress, 6. Towards a humane city, Novi Sad, 26-27 Oktobar, 2017, ISBN 978-86-7892-962-5
5. Miličić M., Atanasković P., Savković T.: Dangerous goods safety advisor (DGSA)-Savetnik za bezbednost opasnog tereta, 8. International Conference Life Cycle Engineering and Management - ICDQM, Prijedor: Istraživački centar DQM-Prijedor, Čačak, 29-30 Jun, 2017, pp. 426-432, ISBN 978-86-86355-33-1
6. Miličić M., Savković T., Atanasković P.: MODERN METHODS APPLICATION FOR THE IMPROVING THE TECHNOLOGY WORK OF TRANSPORT ORGANIYATION, 1. The 1st International Conference on Management, Engineering and Environment ICMNEE, Beograd: Regional Association for Security and crisis management-RABEK, 28-29 Septembar, 2017, pp. 53-65, ISBN 978-86-80698-09-0
7. Mulalić E., Stević Ž., Božičković Z., Vasiljević M., Sremac S.: Decomposition and centralization of warehouse systems in order to rationalize material flows, 6. International Conference Transport and Logistics, Niš, 25-26 Maj, 2017, pp. 83-90, ISBN 978-86-6055-088-2
8. Savković T., Miličić M., Pitka P., Milenković I.: Static and Dynamic Eco-Driving, 6. Towards a humane city, Novi Sad: Fakultet tehničkih nauka, Novi Sad, 26-27 Oktobar, 2017, pp. 393-399, ISBN 978-86-7892-962-5
9. Simeunović M., Pitka P., Basarić V., Simeunović M.: Model and software-based solution for implementing coordinated timed-transfer passenger transport system, 5. IEEE International Conference on Models and technologies for intelligent transportation systems, Napulj: IEEE, 26-28 Jun, 2017, pp. 304-309, ISBN 978-1-5090-6484-7
10. Simeunović M., Pitka P., Radivojević D., Škiljaica I.: CONCEPT OF THE REGIONAL PUBLIC TRANSPORT SYSTEM DEVELOPMENT, 4. Places and Technologies, Sarajevo: Arhitektonski fakultet Univerziteta u Sarajevu, 8-9 Jun, 2017, pp. 470-475, ISBN 978-9958-691-56-0
11. Simeunović M., Simeunović M., Pitka P.: Development of priority strategies for public transport vehicles, 6. Towards a humane city, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences, University of Novi Sad, 26-27 Oktobar, 2017, pp. 63-69, ISBN 978-86-7892-962-5

12. Smiljanić N., Arsić T., Vukobratović B., Sremac S.: Medical waste - solutions and dilemmas, 10. International Scientific Conference Crisis Management Days, Terme Tuhelj, 24-26 Maj, 2017, pp. 772-779, UDK: 502.173:61(497.11)
13. Sremac S., Tanackov I., Kopic M., Tadić Ž., Ziramov N.: Analysis of extraordinary events in the transport of dangerous goods by rail in the Republic of Serbia, 6. International Conference Transport and Logistics, Niš, 25-26 Maj, 2017, pp. 177-181, ISBN 978-86-6055-088-2
14. Stević Ž., Tanackov I., Vasiljević M., Rikalović A.: Supplier Evaluation Criteria: AHP Rough Approach, 17. International Scientific Conference on Industrial Systems, Novi Sad: Univerzitet u Novom Sadu, Fakultet tehničkih nauka Novi Sad, 4-6 Oktobar, 2017, ISBN ISBN 978-86-7892-978
15. Tomović N., Pejičić-Tarle S., Gladović P.: RESEARCH OF CRITICAL FACTORS OF SUCCESS IN TRANSPORT ORGANIZATIONS, 6. VI International Symposium NEW HORIZONS of transport and communications, Dobož, 17-18 Novembar, 2017, pp. 87-96, ISBN 978-99955-36-66-4, UDK: 656.1/.2(082)(0.034.4)

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

1. Dupljanin Đ., Savković T., Dumnić S., Miličić M., Marčeta M.: Istraživanje emisije CO2 kod vozila poštanskog saobraćaja na teritoriji Vojvodine, Put i saobraćaj, 2017, Vol. 63, No 3, pp. 49-53, ISSN 0478-9733, UDK: 625.7/.8+651.1
2. Gladović P., Vasić N., Miličić M., Savković T.: Ekonomična vožnja u funkciji povećanja efektivnosti kompanija u drumskom saobraćaju, Tehnika, 2017, No 6, pp. 903-909, ISSN 0040-2176, UDK: 62(062.2)(497.1)
3. Milenković I., Pitka P., Savković T., Vujičić A.: Koncept regionalne integracije sistema javnog prevoza putnika u republici Srbiji, Put i saobraćaj, 2017, Vol. 63, No 4, pp. 55-59, ISSN 0478-9733, UDK: 625.7/.8+651.1
4. Miličić M., Milenković I., Savković T.: Analiza i komparacija troškova održavanja vozila u voznom parku, Put i saobraćaj, 2017, Vol. 63, No 4, pp. 61-64, ISSN 0478-9733, UDK: 625.7/.8+651.1
5. Simeunović M., Bogdanović V., Simeunović M.: Istorijski razvoj horizontalne i vertikalne signalizacije, Put i saobraćaj, 2017, No 2, pp. 35-41, ISSN 0478-9733, UDK: 625.7/.8+651.1
6. Sremac S., Tanackov I., Ožegović B., Ziramov N.: Analiza zakona o transportu opasne robe, Ecologica, 2017, Vol. 24, No 87, pp. 776-780, ISSN 0354-3285, UDK: 656.833.3.073.436

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

1. Sremac S., Kopic M., Matić B., Stojić G.: Menadžment u isporuci pošiljaka sa opasnim materijama kurirskim službama, Tehnika, 2017, pp. 126-131, ISSN 0040-2176

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

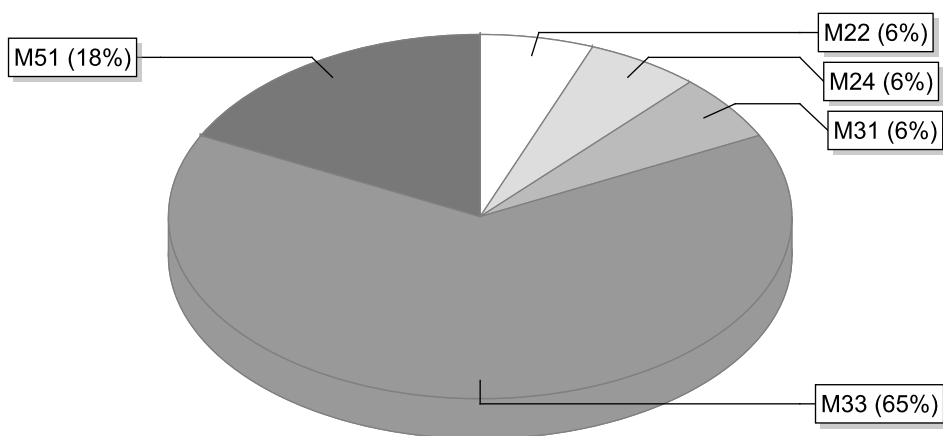
1. Bulajić A., Pljakić M., Matović B., Bačkalić T.: Proširena teorija planiranog ponašanja: Uloga personalnih normi u predviđanju ponašanja pešaka, 12. BSLZ- Bezbednost saobraćaja u loknoj zajednici, Tara: Fakultet tehničkih nauka - Univerzitet u Novom Sadu, 19-22 April, 2017, pp. 69-80, ISBN 978-86-7892-924-3
2. Simeunović M., Božić S., Pitka P., Simeunović M.: Ispitivanje pouzdanosti primene kočionog koeficijenta za utvrđivanje brzine kretanja kod vozila sa AB sistemom kočenja, 12. Savetovanje na temu saobraćajne nezgode, Zlatibor, 18-20 Maj, 2017, pp. 220-228, ISBN 978-85-86-931-14-6

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za poštanski saobraćaj i komunikacije

Zbirni pregled naučno istraživačkih rezultata u 2017. 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
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	11
Rad u vodećem časopisu nacionalnog značaja	M51	3



## PRODUKCIJA - REZULTATI

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

1. Šarac D., Unterberger M., Jovanović B., Kujačić M., Trubint N., Ožegović S.: Postal network access and service quality: Expectation and experience in Serbia, Utilities Policy, 2017, ISSN 0957-1787, UDK: <https://doi.org/10.1016/j.jup.2017.09.004>

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

1. Kranjac M., Vapa Tankosić J., Knežević M.: Profile of organic food consumers, Ekonomika poljoprivrede, 2017, Vol. 64, No 2, pp. 497-514, ISSN 0352-3462, UDK: 338.43:63.

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

1. Kranjac M.: How to ensure sustainable development of Serbia: supporting innovation and entrepreneurship?, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo, 5-8 Jun, 2017

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

1. Čačić N., Maksimović N., Dupljanin Đ.: The urban freight transport/experiences and perspectives of postal companies, 6. Towards a humane city, Novi Sad: DEPARTMENT OF TRAFFIC ENGINEERING FACULTY OF TECHNICAL SCIENCES UNIVERSITY OF NOVI SAD, 26-27 Oktobar, 2017, pp. 123-129, ISBN 978-86-7892-962-5
2. Dumnić S., Dupljanin Đ., Čulibrk D., Božović V.: Brz razvoj prototipa mobilne aplikacije u funkciji unapređenja poslovanja kurirskih sistema, 16. Infoteh-Jahorina, Jahorina: Elektrotehnički fakultet Vuka Karadžića 30 71123 Istočno Sarajevo, 22-24 Mart, 2017, pp. 377-380, ISBN 978-99976-710-0-4
3. Dupljanin Đ., Dumnić S., Savković T.: Innovation in the last mile delivery, 1. The 1st International Conference on Management, Engineering and Environment ICMNEE, Beograd: Regional Association for Security and crisis management-RABEK and European centre for operational research-ECOR, 28-29 Septembar, 2017, pp. 294-300, ISBN 978-86-80698-09-0
4. Dupljanin Đ., Marčeta M., Dumnić S.: Advantages and disadvantages of autonomous vehicles in postal companies, 6. Towards a humane city, Novi Sad: DEPARTMENT OF TRAFFIC ENGINEERING FACULTY OF TECHNICAL SCIENCES UNIVERSITY OF NOVI SAD, 26-27 Oktobar, 2017, pp. 117-122, ISBN 978-86-7892-962-5
5. Jovanović B., Šarac D., Trubint N.: Directions of postal sector development, 6. Towards a humane city, Novi Sad, 26-27 Oktobar, 2017, pp. 111-116, ISBN 978-86-7892-962-5
6. Kranjac M.: How to ensure sustainable development of Serbia: supporting innovation and entrepreneurship?, 4. International Conference on Electrical, Electronic and Computing Engineering IcETRAN, Kladovo: ETRAN, 5-8 Jun, 2017
7. Kranjac M.: Spatial Analysis of the Clustering Process, 40. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o mikroracionalima u telekomunikacijama, Opatija: Croatian Society for Information and Communication Technology, Electronics and Microelectronics - MIPRO, 22-26 Maj, 2017, ISBN 978-953-233-093-9
8. Kranjac M.: Spatial Analysis of the Clustering Process, 40. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o mikroracionalima u telekomunikacijama, Opatija: Croatian Society for Information and Communication Technology, Electronics and Microelectronics - MIPRO, 22-26 Maj, 2017, pp. 255-261, ISBN 978-953-233-093-9
9. Kranjac M.: Structuring of goods flow database in transport supply chain, 7. International Conference on Information Science and Technology (ICIST), Kopaonik: Informatičko društvo Srbije, 12-15 Mart, 2017
10. Miličić M., Atanasković P., Savković T.: Dangerous goods safety advisor (DGSA)-Savetnik za bezbednost opasnog tereta, 8. International Conference Life Cycle Engineering and Management - ICDQM, Prijedor: Istraživački centar DQM-Prijedor, Čačak, 29-30 Jun, 2017, pp. 426-432, ISBN 978-86-86355-33-1
11. Miličić M., Savković T., Atanasković P.: MODERN METHODS APPLICATION FOR THE IMPROVING THE TECHNOLOGY WORK OF TRANSPORT ORGANIZATION, 1. The 1st International Conference on Management, Engineering and Environment ICMNEE, Beograd: Regional Association for Security and crisis management-RABEK, 28-29 Septembar, 2017, pp. 53-65, ISBN 978-86-80698-09-0

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

1. Blagojević M., Marković D., Šarac D.: Obračun troškova poštanske mreže i univerzalne poštanske usluge baziran na pojmu standardnih i prosečnih troškova, Tehnika, 2017, Vol. 72, No 2, pp. 267-272, ISSN 0040-2176

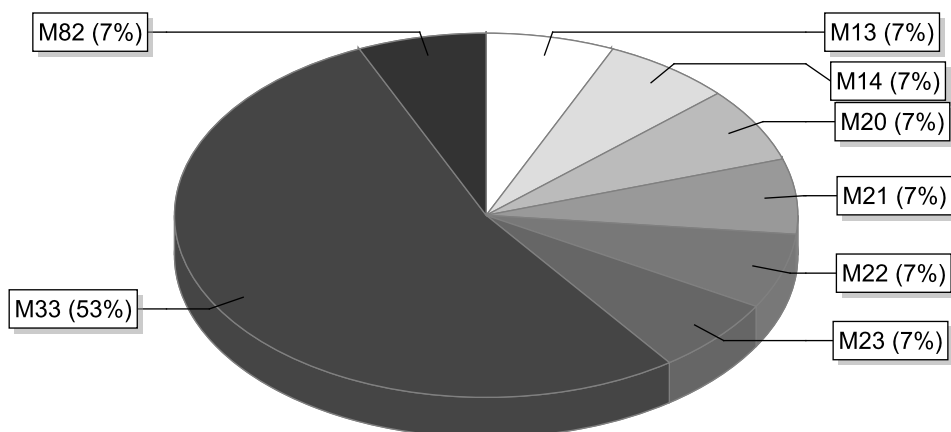
2. Dupljanin Đ., Savković T., Dumnić S., Miličić M., Marčeta M.: Istraživanje emisije CO<sub>2</sub> kod vozila poštanskog saobraćaja na teritoriji Vojvodine, Put i saobraćaj, 2017, Vol. 63, No 3, pp. 49-53, ISSN 0478-9733, UDK: 625.7/.8+651.1
3. Unterberger M., Šarac D., Blagojević M., Vešović P.: Model pristupa u funkciji kontinuiranog procesa upravljanja poštanskom mrežom , Tehnika, 2017, Vol. 72, No 5, pp. 735-742, ISSN 0040-2176

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za logistiku i intermodalni transport

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	8
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1





## PRODUKCIJA - REZULTATI

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

1. Simić S., Simić D., Milutinović D., Đorđević J., Simić S.: A Hybrid Approach to Detecting the Best Solution in Nurse Scheduling Problem, Berlin, Springer-Verlag Berlin Heidelberg, Lecture Notes in Computer Science, 2017, str. 710-721, ISBN 978-3-319-59649-5, UDK: ISSN: 0302-9743, Vol. 10334 Hybrid Artificial Intelligent Systems

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

1. Simić S., Simić D., Milutinović D., Đorđević J., Simić S.: A Fuzzy Ordered Weighted Averaging Approach to Rerostring in Nurse Scheduling Problem, Berlin, Springer-Verlag Berlin Heidelberg, Advances in Intelligent Systems and Computing, 2017, str. 79-88, ISBN 978-3-319-67179-6, UDK: ISSN: 2194-5357

Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Ilin V., Ivetić J., Simić D.: Understanding the determinants of e-business adoption in ERP-enabled firms and non-ERP-enabled firms: A case study of the Western Balkan Peninsula, Technological Forecasting and Social Change, 2017, Vol. 125, pp. 206-223, ISSN 0040-1625

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Simić D., Kovačević I., Svirčević V., Simić S.: 50 years of fuzzy set theory and models for supplier assessment and selection: A literature review, Journal of Applied Logic, 2017, Vol. 24, No Part A, pp. 85-96, ISSN 1570-8683

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Simić D., Ilin V., Svirčević V., Simić S.: A hybrid clustering and ranking method for best positioned logistics distribution centre in Balkan Peninsula, Logic Journal of the IGPL / Interest Group in Pure and Applied Logics, 2017, Vol. 25, No 6, pp. 991-1005, ISSN 1367-0751

Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Veličković M., Stojanović Đ., Nikoličić S., Maslarić M.: Different urban consolidation centre scenarios: impact on external costs of last-mile deliveries, Transport, 2017, No 0, ISSN 1648-4142

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Dončić D., Stojanović Đ., Veličković M.: Complex Relationships in Logistics Multiads: An Automotive Industry Insight, 3. Logistics International Conference, Beograd: 25-27 May, Book of Proceedings, University of Belgrade, Faculty of Transport and Traffic, 25-27 Maj, 2017, pp. 86-91, ISBN 978-86-7395-373-1
2. Ilin V., Simić D.: Internet of things solutions for building a smart city, 6. Towards a humane city, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences, University of Novi Sad, 26-27 Oktobar, 2017, pp. 361-367, ISBN 978-86-7892-962-5
3. Mirčetić D., Nikoličić S., Bojić S., Maslarić M.: Identifying the Barriers for Development of Inland Waterway Transport: a Case Study; 18th International Scientific Conference - LOGI 2017, MATEC Web of Conferences, 2017, Vol. 134, ISSN 2261-236X, 18. International scientific conference LOGI, Češke Budejovice, 19 Oktobar, 2017, UDK: DOI: 10.1051/mateconf/201713400039
4. Mirčetić D., Nikoličić S., Stojanović Đ., Maslarić M.: Modified top down approach for hierarchical forecasting in a beverage supply chain, Transportation Research Procedia, 2017, Vol. 22, pp. 193-202, ISSN 2352-1465, 19. Meeting of the EURO Working Group on Transportation EWGT, Istanbul: Elsevier, 5-7 Septembar, 2016, pp. 193-202, ISBN 2214-241X, UDK: <https://doi.org/10.1016/j.trpro.2017.03.026>
5. Nikoličić S., Maslarić M., Strohmandl J., Mirčetić D.: Logistics performance and transport infrastructure, 3. Logistics International Conference, Beograd, 25-27 Maj, 2017
6. Simić D., Ilin V.: Utilizing big data for safety and sustainable mobility, 6. Towards a humane city, Novi Sad: Department of Traffic Engineering, Faculty of Technical Sciences, University of Novi Sad, 26-27 Oktobar, 2017, pp. 317-323, ISBN 978-86-7892-962-5
7. Stojanović Đ.: Road freight transport outsourcing trend in Europe – what do we really know about it?, Transportation Research Procedia, 2017, No 25C, pp. 772-793, ISSN 2352-1465, 14. 14th World Conference on Transport Research - WCTR 2016, Šangaj: Special issue: World Conference on Transport Research - WCTR 2016 Shanghai. 10-15 July 2016, Elsevier, 10-15 Jul, 2016, pp. 772-793
8. Veličković M., Dell'Orco M., Marinelli M., Stojanović Đ., Mirčetić D.: Step-by-step model for decision making in city logistics under uncertainty, 6. Towards a humane city, Novi Sad: Department of traffic engineering, Faculty of technical sciences, University of Novi Sad, 26-27 Oktobar, 2017, pp. 159-165, ISBN 978-86-7892-

962-5

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

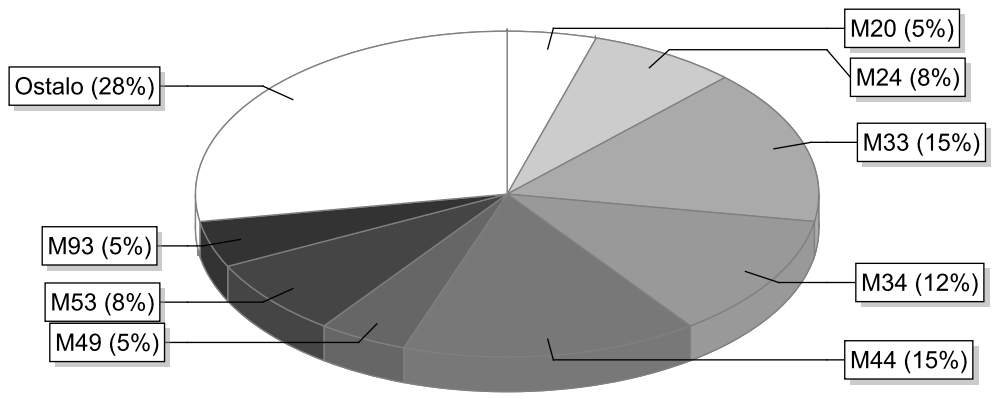
1. Stojanović Đ., Nikoličić S., Maslarić M., Veličković M., Mirčetić D., Ilin V., Bjeljac P.: КАЛКУЛАТОР ЕКСТЕРНИХ ТРОШКОВА У ДРУМСКОМ РОБНОМ ТРАНСПОРТУ (КЕТ1.0) , 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za arhitekturu i urbanizam

Zbirni pregled naučno istraživačkih rezultata u 2017. 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
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije međunarodnog značaja	M18	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	5
Saopštenje sa međunarodnog skupa štampano u celini	M33	10
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	8
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Monografska bibliografska publikacija	M43	2
Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja	M44	10
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	1
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije nacionalnog značaja	M49	3
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	5
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Uređivanje zbornika saopštenja skupa nacionalnog značaja	M66	1
Odbranjena doktorska disertacija	M71	2
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	2
Autorska izložba sa katalogom uz naučnu recenziju	M93	3

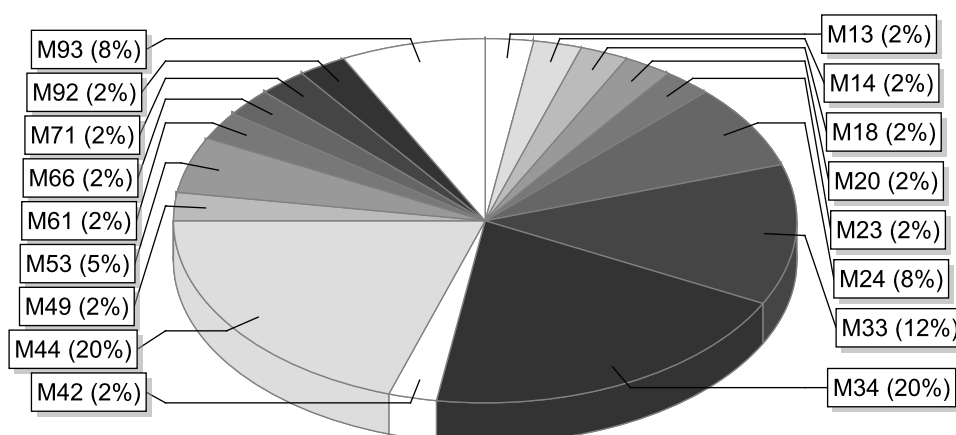


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za arhitekturu i urbanizam

Zbirni pregled naučno istraživačkih rezultata u 2017. 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
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije međunarodnog značaja	M18	1
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u međunarodnom časopisu	M23	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	8
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja	M44	8
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije nacionalnog značaja	M49	1
Rad u naučnom časopisu	M53	2
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Uređivanje zbornika saopštenja skupa nacionalnog značaja	M66	1
Odbranjena doktorska disertacija	M71	1
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	1
Autorska izložba sa katalogom uz naučnu recenziju	M93	3



## PRODUKCIJA - REZULTATI

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

1. Reba D., Kostreš M.: Planning the Allocation of Cultural Resources in Novi Sad', London, Routledge, London, 2017., 2017, str. 17-24, ISBN 978-1-138-21901-4

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

1. Silađi M., Nemet F.: Destine bănăene în Primul Război Mondial: Moternireau lui Fábián Ernő i Bayer Irén / Bánáti sorsok az első világháborúban: Fábián Ernő és Bayer Irén hagyatéka nyomán / Banater Schicksale im Ersten Weltkrieg: Aus dem Nachlass von Fábián Ernő und Bayer Irén, Timisoara, ART Press, 2017, str. 1-192, ISBN 978-973-108-760-3

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

1. Atanacković-Jeličić J., Dadić Dinulović T.: Uređivanje kataloga međunarodne izložbe "Laboratorija prostora - Laboratory of Space", Muzej savremene umetnosti Vojvodine, Novi Sad, 22.12.2015-20.1.2016. Katalog izložbe na engleskom i srpskom jeziku, "Laboratorija prostora- Laboratory of Space- Exhibition catalogue", Novi Sad, Fakultet tehničkih nauka, Departman za arhitekturu i urbanizam, 2017, ISBN 978-86-7892-814-7, UDK: COBISS.SR-ID 312152327

Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Peško I., Mučenski V., Šešlija M., Radović N., Vujkov A., Bibić (Đorđević) D., Krklješ M.: Estimation of Costs and Durations of Construction of Urban Roads Using ANN and SVM, Complexity, 2017, Vol. 2017, ISSN 1076-2787, UDK: <https://doi.org/10.1155/2017/2450370>

Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Shahrán A., Reba D., Krklješ M.: Thermal comfort, Adaptability and Sustainability of Vernacular Single Family Houses in Libya, Tehnički vjesnik/Technical Gazette Vol. 24/No. 6, ISSN 1330-3651, Online: ISSN 1848-6339, accepted for publication , Tehnički vjesnik - Technical Gazette, 2017, Vol. 24, No 6, ISSN 1330-3651

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

1. Reba D.: Street system as determinant of urban and social structure of central areas of Novi Sad and Sombor, Facta Universitatis, 2017, pp. 117-130
2. Sekulić M.: Recreation function of forest complexes as an element of urban planning in Republic of Srpska , Facta Universitatis, Series: Architecture and Civil Engineering, 2017, Vol. 15, No 1, pp. 103-115, ISSN 0354-4605, UDK: 712.256 (497.6)
3. Vukajlov Lj., Milinković A., Brkljač D., Dobrivojević O.: Evaluation model of the quality of theater locations: case study – Novi Sad, Serbia, Facta Universitatis, Series: Architecture and Civil Engineering, 2017, Vol. 15, No 2, pp. 225-238, ISSN 0354-4605, UDK: 725.822(497.113)

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Brkljač D., Vukajlov Lj., Milinković A.: URBAN ANALYSIS AND QUALITY EVALUATION OF SOCIALIZATION SITES WITHIN CITY BLOCKS CASE STUDY: CITY BLOCKS IN LIMAN I AND II IN NOVI SAD, 5. Contemporary Achievements in Civil Engineering, Subotica: GRAĐEVINSKI FAKULTET SUBOTICA , 21 April, 2017, pp. 767-774, ISBN 978-86-80297-68-2
2. Mičkei K.: ARCHITECTURAL APPROACH FOR DEFINING IMMERSIVE AND EVOCATIVE SPACE IN VIDEOGAMES, 5. Strand conference, Beograd: STRAND - Sustainable Urban Society Association Belgrade, Serbia, 7-9 Decembar, 2011, ISBN 978-86-89111-16-3
3. Milinković A., Škorić S., Krklješ M., Brkljač D.: Residential Towers as Benchmarks of Liman District in Novi Sad, 5. Contemporary Achievements in Civil Engineering, Subotica: Faculty of Civil Engineering Subotica, University of Novi Sad, 21 April, 2017, pp. 775-782, ISBN 978-86-80297-68-2, UDK: UDK: 711.4(497.113Novi Sad)
4. Sladić M.: Using Photogrammetry and Laser Scanning for Monitoring of Architectural Heritage, 8. ITRO - International Conference on Information Tecnology and Development of Education, Zrenjanin: University of Novi Sad, Technical faculty „Mihajlo Pupin”, Zrenjanin, Republic of Serbia, 22 Jun, 2017, pp. 264-268, ISBN 978-86-7672-302-7
5. Škorić S., Krklješ M., Milinković A., Brkljač D.: Valorisation of the Urban Blocks' Interior Spaces as Sites for Social Activities in the 'Old Town' of Novi Sad, 5. Contemporary Achievements in Civil Engineering, Subotica: Faculty of Civil Engineering Subotica, University of Novi Sad, 21 April, 2017, pp. 783-791, ISBN 978-86-80297-68-2, UDK: UDK: 711.63(497.113Novi Sad)

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Carević M., Medenica R.: Functional Diversification of Post-War Neighbourhoods - Novi Sad Case Study , 1. Facing Post-War Urban Heritage in Central and Eastern Europe, Budimpešta: Department of Urban Planning and Design, Faculty of Architecture, Budapest University of Technology and Economics, 6-7 Oktobar, 2017, pp. 16-17, ISBN 978-963-313-271-5
2. Carević M.: Contribution to Optimisation of Land Use Planning in Cities, 1. RSA Annual Conference, Dublin: Regional Studies Association, 4-7 Jun, 2017, pp. 32-32, ISBN 978-1-897721-60-5
3. Maraš I.: Reclaiming the Square: the Right to Public Space, 1. Facing Post-War Urban Heritage in Central and Eastern Europe, Budimpešta: BME Department of Urban Planning and Design, 6-7 Oktobar, 2017, pp. 42-43, ISBN 978-963-313-271-5
4. Pešterac A.: Levels of Space Influence, 5. Strand conference, Beograd: Strand - Sustainable Urban Society Association, 7-9 Decembar, 2011, pp. 30-30, ISBN 978-86-89111-15-6
5. Sekulić M.: APLICATION OF RAIN GARDENS IN ORDER TO IMPROVE WATER QUALITY IN NOVI SAD, 7. International Scientific and Professional Conference "WATER FOR ALL", Osijek: Sveučilište Josip Juraja Strossmayera University of Osijek, 9-10 Mart, 2017, pp. 53-53, ISBN 978-953-7005-47-4
6. Silađi M., Draganić A.: The Emergence of Railway Traffic in Banat – Significance and Architecture, 1. The Transport and Transfer of Goods as Cultural Heritage, Beograd: Ethnographic Museum, Society of Conservators of Serbia, 23-24 Novembar, 2017, pp. 28-29, ISBN 978-86-7891-107-1
7. Škorić S., Milinković A., Brkljač D.: Reconnection Possibilities of Socialist Neighbourhoods to the Adjacent Danube River in Novi Sad, 1. Facing Post-War Urban Heritage in Central and Eastern Europe, Budimpešta: Department of Urban Planning and Design, Faculty of Architecture, Budapest University of Technology and Economics (BME), 6-7 Oktobar, 2017, pp. 56-57, ISBN 978-963-313-271-5
8. Šunjević M., Zeković M., Vojinović-Miloradov M., Reba D., Sremački M.: EPS - Environmental Protection Strategy for rapid population growth of Novi Sad, Serbia, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Slovak University of Technology, 20-22 Septembar, 2017, pp. 75-75

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

1. Nemet F., Silađi M.: „Ilyenek a háború vizsontagságai”: Fábrián Ernő és Bayer Irén a Nagy Háborúban, Székesfehérvár, Magyar Nemzeti Levéltár Fejér Megyei Levéltára, 2017, str. 1-278, ISBN 978-963-7233-46-3

Spisak rezultata M44 - Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja

1. Atanacković-Jeličić J., Maraš I., Despotović J., Ecet D., Medić S., Rapačić M.: URBAN DESIGN IN WWW. ENVIROMENT: CASE OF INFORMAL SETTLEMENT, Zbornik radova: "Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije", urednici: prof. dr Nađa Kurtović Folić, prof. dr Milena Krklješ, u štampi, Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, 2017, ISBN 9-788678-928420
2. Krklješ M., Brkljač D.: OPTIMIZACIJA OBLIKOVANJA JAVNIH PROSTORA U GRADU SA ASPEKTA PERCEPCIJE KORISNIKA, u: Kurtović-Folić N., Krklješ M., ur.: Zbornik radova: Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije, Novi Sad, Fakultet tehničkih nauka, 2017, str. 205-222, ISBN 978-86-7892-842-0
3. Miškeljin I., Todorov M.: dr Ivana Miškeljin, dr Marko Todorov: „Vele-Enterijer“ kao zaštitino ostrvo, programska raznovrsnost kao polazište za optimizaciju arhitektonskog projektovanja u funkciji održivog razvoja, Tematski zbornik radova: Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije, 2017, str. 153-168. Izdavač: Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, Novi Sad. Izdanje pomaže: Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije. ISBN: 978-86-7892-842-0., Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, 2017, str. 153-168, ISBN 978-86-7892-842-0, UDK: COBISS.SR-ID 319212039
4. Reba D., Carević M.: Kriterijumi i elementi za modelovanje otvorenih prostora urbanih blokova kao determinante morfologije i strukture grada, u tematskom zborniku Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije, urednika prof. dr Nađa Kurtović Folić i prof. dr. Milena Krklješ, Novi Sad, Fakultet tehničkih nauka, Departman za arhitekturu i urbanizam, 2017, str. 223-228, ISBN 978-86-7892-842-0
5. Silađi M.: Optimizacija korišćenja seoskih javnih prostora na primerima srednjobanatskih sela, Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, 2017, str. 289-306, ISBN 978-86-7892-842-0

6. Sladić M., Kurtović-Folić N., Krklješ M.: Slojevitost problema optimizacije arhitektonskog projektovanja, Novi Sad, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 2017, str. 3-28, ISBN 978-86-7892-842-0
7. Škorić S., Krklješ M.: Optimizacija dinamičnih parametara javnih prostora grada na primeru analize različitih grupa korisnika trgova centralne zone Novog Sada, u Kurtović Folić N., Krklješ M., ur.: Tematski zbornik radova: Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije, Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, 2017, str. 269-288, ISBN 978-86-7892-842-0
8. Vukajlov Lj., Milinković A.: OPTIMIZACIJA I ODRŽIVOST STVORENIH I PRIRODNIH VIDIKOVACA U NASELJU STUDIJA SLUČAJA – VIDIKOVCI NOVOG SADA, u: Kurtović Folić N., Krklješ M., ur.: Zbornik radova: Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije, Novi Sad, Fakultet tehničkih nauka, 2017, str. 239-254, ISBN 978-86-7892-842-0

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

1. Kostreš M., Nožinić R., Medenica R.: Urbanistička studija prostorne kulturno-istorijske celine „Stari centar Vranjeva“, Novi Sad, Fakultet tehničkih nauka Univerziteta u Novom Sadu, 2017, ISBN 978-86-7892-991-5

Spisak rezultata M53 - Rad u naučnom časopisu

1. Šunjević M., Vojinović-Miloradov M., Reba D., Zeković M., Obrovski B., Živančev (Šenk) N.: Sustainable building design and environment, DOI: 10.17973/MMSJ.2017\_02\_2016138, MM (Modern Machinery) Science Journal, 2017, pp. 1683-1686, ISSN 1803-1269
2. Vukajlov Lj.: Peta decenija gradića Pejton, DaNS - Zapisi iz arhitekture, urbanizma i dizajna, 2017, No 082, pp. 68-70, ISSN 0351-9775

Spisak rezultata M61 - Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini

1. Silađi M.: Új jelenségek Bánát falusi építészetiében, 1. I. Regionális Népi Építészeti Konferencia – Új jelenségek a vidék népi építészetiében, Miskolc: Miskolc ART, 21-23 April, 2017, pp. 37-43, ISBN 978-963-06-4076-3

Spisak rezultata M66 - Uređivanje zbornika saopštenja skupa nacionalnog značaja

1. Kerner G., Silađi M.: I. Regionális Népi Építészeti Konferencia – Új jelenségek a vidék népi építészetiében, 1. I. Regionális Népi Építészeti Konferencia – Új jelenségek a vidék népi építészetiében, Miskolc: Miskolc ART, 21-23 April, 2017, pp. 1-56, ISBN 978-963-06-4076-3

Spisak rezultata M71 - Odbranjena doktorska disertacija

1. Pešterac A.: Transformacija prostora u mesto: stalnosti i promene poetičkog dejstva mesta, Novi Sad, FTN, 2017

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

1. Nedeljković D.: Scenografija za predstavu „Ljubav Ljubav Ljubav“, Majkl Bartlet, Atelje 212, Beograd, 2017

Spisak rezultata M93 - Autorska izložba sa katalogom uz naučnu recenziju

1. Ivanić R., Bede A., Tamaš Dačić A., Jović S., Konstantinović D., Momirov M.: Fokus na modernizam: Arhitektura Novog Sada 1950-1970 Muzej savremene umetnosti Vojvodine, 23.03.-09.04. naučna recenzija: doc dr Mirjana Sladić, Novi Sad, Društvo arhitekata Novog Sada, 2017
2. Pilipović D.: SUOČAVANJE : sintezni umetnički rad studenata druge godine doktorskih studija scenskog dizajna na Fakultetu tehničkih nauka u Novom Sadu / [Marija Lipkovski Barna, Sofija Mitrović, Darinka Mihajlović, Dragana Pilipović, Vladimir Savić i Dejan Todorović] ; kustosi izložbe Tatjana Dadić Dinulović, Jelena Atanacković Jeličić ; urednik Dejan Todorović, Novi Sad : Fakultet tehničkih nauka, Departman za arhitekturu i urbanizam, 2018, (Novi Sad : Fakultet tehničkih nauka, Grafički centar GRID), 2017, ISBN 978-86-6022-018-1
3. Pilipović D.: Зграда пословног инкубатора Новог Сада, Каталог међународне изложбе "Лабораторија простора" ('Space Laboratory'), Fakultet tehničkih nauka u Novom Sadu, 2017, ISBN 978-86-7892-814-7

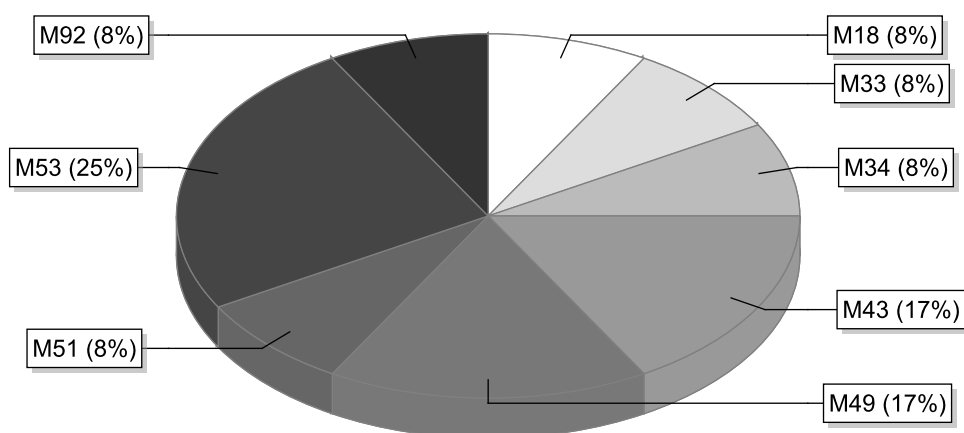


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za umetnost primenjenu na arhitekturu, tehniku i dizajn

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije međunarodnog značaja	M18	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	1
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	1
Monografska bibliografska publikacija	M43	2
Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije nacionalnog značaja	M49	2
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	3
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	1



## PRODUKCIJA - REZULTATI

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

1. Atanacković-Jeličić J., Dadić Dinulović T.: Uređivanje kataloga međunarodne izložbe "Laboratorija prostora - Laboratory of Space", Muzej savremene umetnosti Vojvodine, Novi Sad, 22.12.2015-20.1.2016. Katalog izložbe na engleskom i srpskom jeziku, "Laboratorija prostora- Laboratory of Space- Exhibition catalogue", Novi Sad, Fakultet tehničkih nauka, Departman za arhitekturu i urbanizam, 2017, ISBN 978-86-7892-814-7, UDK: COBISS.SR-ID 312152327

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Bošković R., Mijić M., Šumarac Pavlović D.: Acoustical Aspects of New RTV building design, 16. Međunarodna konferencija iz oblasti akustike i audio-tehnike Taktons, Novi Sad: 978-86-7892-994-6, 22-25 Novembar, 2017

Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Šunjević M., Zeković M., Vojinović-Miloradov M., Reba D., Sremački M.: EPS - Environmental Protection Strategy for rapid population growth of Novi Sad, Serbia, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Slovak University of Technology, 20-22 Septembar, 2017, pp. 75-75

Spisak rezultata M43 - Monografska bibliografska publikacija

1. Dadić Dinulović T.: Scenski dizajn kao umetnost, Beograd, Clio i Fakultet tehničkih nauka, 2017, ISBN 978-86-7102-551-5
2. Dinulović R.: Arhitektura, tehnika i nemađžment pozornice, Novi Sad, Fakultet tehničkih nauka, 2017, ISBN 978-86-7892-903-8

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

1. Dinulović R.: Prostor u scenskoj umetnosti 1, Novi Sad, Fakultet tehničkih nauka, 2017, ISBN 978-86-7892-879-6
2. Dinulović R.: Prostor u scenskoj umetnosti 2, Novi Sad, Fakultet tehničkih nauka, 2017, ISBN 978-86-7892-880-2

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Dadić Dinulović T.: Arhitektura kao scenski tekst: studija slučaja Sedamsto hiljada stubova, Arhitektura i urbanizam, 2017, No 44/2017, pp. 14-20, ISSN 0354-6055, UDK: 725.945(497.6)

Spisak rezultata M53 - Rad u naučnom časopisu

1. Stojšić M.: Stojšić, Milica and Dragana Vilotić, Granične teritorije: scenski dizajn na Bitefu 2016. godine, Scena, 2017, Vol. 2017, No 1, pp. 209-221, ISSN 0036-5734
2. Šunjević M., Vojinović-Miloradov M., Reba D., Zeković M., Obrovski B., Živančev (Šenk) N.: Sustainable building design and environment, DOI: 10.17973/MMSJ.2017\_02\_2016138, MM (Modern Machinery) Science Journal, 2017, pp. 1683-1686, ISSN 1803-1269
3. Vilotić D., Stojšić M.: Tekst za rubriku "Scenski dizajn" pod nazivom: "Granične teritorije: Scenski dizajn na Bitefu 2016.", Сцена, 2017, Vol. 1, No 1, pp. 209-221, ISSN 0036-5734

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

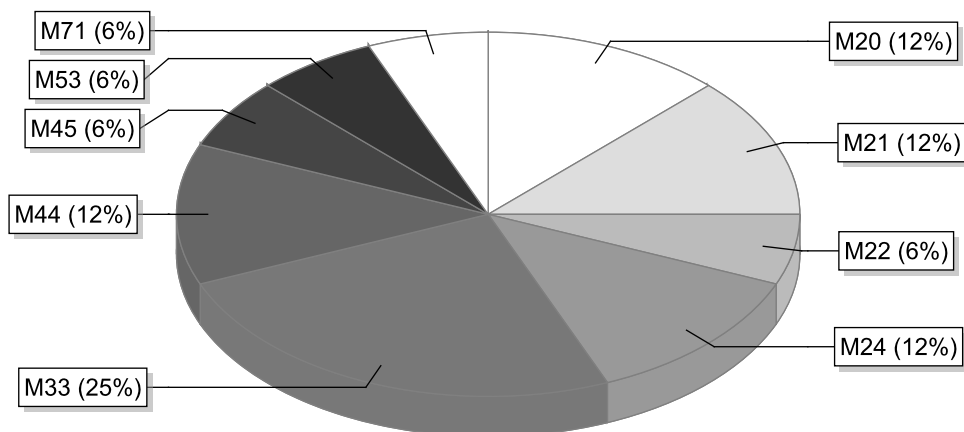
1. Dimitrovska D.: Scenograf pozorišne predstave „Osećaj brade, K. Dragunska, rediteljka Mia Knežević, Atelje 212, Beograd, 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za teorije i interpretacije prostora u arhitekturi i urbanizmu

Zbirni pregled naučno istraživačkih rezultata u 2017. 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 časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	4
Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja	M44	2
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	1
Rad u naučnom časopisu	M53	1
Obranjena doktorska disertacija	M71	1



## PRODUKCIJA - REZULTATI

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

1. Jovanović M., Raković M., Tepavčević B., Borovac B., Nikolić M.: Robotic fabrication of freeform foam structures with quadrilateral and puzzle shaped panels, *Automation in Construction*, 2017, Vol. 74, pp. 28-38, ISSN 0926-5805
2. Tepavčević B., Stojaković V., Mitov D., Bajšanski I., Jovanović M.: Design to fabrication method of thin shell structures based on a friction-fit connection system, *Automation in Construction*, 2017, No 84c, pp. 207-213, ISSN 0926-5805

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

1. Bajšanski I., Stojaković V., Tepavčević B., Jovanović M., Mitov D.: An Application of the Shark Skin Denticle Geometry for Windbreak Fence Design and Fabrication, *Journal of Bionic Engineering*, 2017, Vol. 14, No 3, pp. 579-587, ISSN 1672-6529
2. Milošević D., Bajšanski I., Savić S.: Influence of changing trees locations on thermal comfort on street parking lot and footways, *Urban Forestry & Urban Greening*, 2017, Vol. 23, pp. 113-124, ISSN 1618-8667

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

1. Nikolić D.: Thrust line analysis and the minimum thickness of pointed masonry arches, *Acta Mechanica*, 2017, Vol. 228, No 6, pp. 2219-2236, ISSN 0001-5970

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

1. Nikolić D., Štulić R.: Equilibrium Analysis of Frictionless Triangular Arches: Geometrical Formulation, *FME Transactions*, 2017, Vol. 45, No 2, pp. 307-313, ISSN 1451-2092
2. Šiđanin P., Lazić M., Obradović R.: Immersive Virtual Reality Course at the Digital Production Studies, *FME Transactions*, 2017, Vol. 45, No 2, pp. 205-208, ISSN 1451-2092, UDK: 621

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

1. Jovanović M., Vučić M., Mitov D., Tepavčević B., Stojaković V., Bajšanski I.: Case Specific Robotic Fabrication of Foam Shell Structures, 35. eCAADe - Educational and research in Computer Aided Architectural Design in Europe, Rim: eCAADe (Education and Research in Computer Aided Architectural Design in Europe) and Dep. of Civil, Building and Environmental Engineering, Faculty of Civil and Industrial Engineering, Sapienza University of Rome, 20-22 Septembar, 2017, pp. 135-142, ISBN 978-94-91207-13-6
2. Milošević D., Savić S., Bajšanski I.: Applications of Automatic Algorithms for Improvement of Outdoor Thermal Comfort in Cities, *Procedia Engineering*, 2017, Vol. 198, pp. 187-192, ISSN 1877-7058, 1. Urban Transitions Global Summit, Shanghai, 5-9 Septembar, 2016, pp. 187-192
3. Nikolić D.: A NOTE ON THE EQUILIBRIUM ANALYSIS OF INCLINED PLATE-BANDE, 5. Contemporary Achievements in Civil Engineering, Subotica: Faculty of Civil Engineering Subotica, 21 April, 2017, pp. 383-392, ISBN 978-86-80297-68-2, UDK: 624,04
4. Stojaković V., Budak I., Obradović R., Korolija Crkvenjakov D., Santoši Ž.: Parametric modeling applied to the virtual reconstruction of the damaged sculpture of St John Nepomuk in Petrovaradin, 35. eCAADe - Educational and research in Computer Aided Architectural Design in Europe, Rim: eCAADe and Sapienza University of Rome., 20-22 Septembar, 2017, pp. 389-399, ISBN 978-94-91207-13-6

### Spisak rezultata M44 - Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja

1. Bajšanski I.: Poboljšanje termalnog komfora u urbanoj sredini primenom parametarskog modelovanja, Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, Novi Sad, 2017, str. 29-45, ISBN 978-86-7892-842-0
2. Nikolić D.: On the Optimal Shape of Gothic Masonry Arches According to Thrust Line Theory, u: Kurtović-Folić N., Krklješ M. ur.: Zbornik radova: Optimizacija arhitektonskog i urbanističkog planiranja i projektovanja u funkciji održivog razvoja Srbije, Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, Novi Sad, 2017, str. 81-98, ISBN 978-86-7892-842-0

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

1. Jovanović M., Tepavčević B., Raković M.: Optimizing Robotic Utilisation in Architectural Fabrication, Novi Sad, Departman za arhitekturu i urbanizam, Fakultet tehničkih nauka, Novi Sad, 2017, str. 45-65, ISBN 978-86-7892-842-0

### Spisak rezultata M53 - Rad u naučnom časopisu

1. Tepavčević B.: Design thinking models for architectural education, *The Journal of Public Space*, 2017, Vol.

2, No 3, pp. 67-72, ISSN 2206-9658

Spisak rezultata M71 - Odbranjena doktorska disertacija

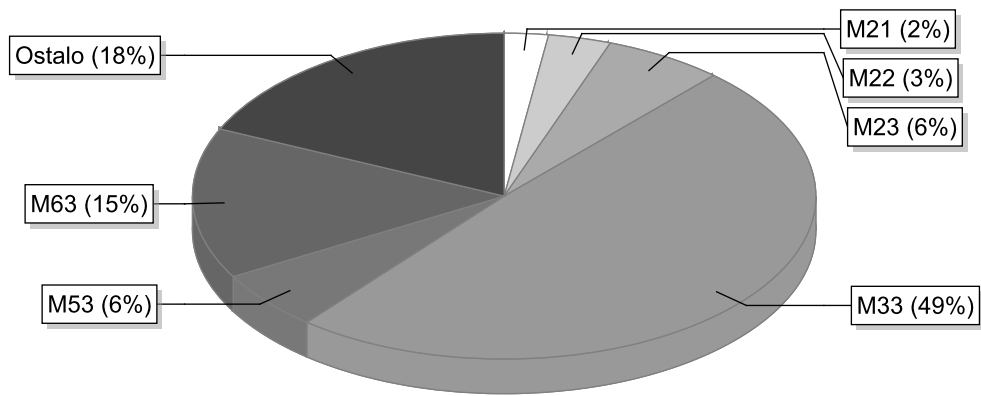
1. Lazić M.: Model za arhitektonsku analizu objekata zasnovan na BIM tehnologiji i upotrebi virtuelne realnosti, Novi Sad, Fakultet tehničkih nauka, 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za industrijsko inženjerstvo i menadžment

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografija međunarodnog značaja	M12	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	3
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	4
Rad u vrhunskom međunarodnom časopisu	M21	7
Rad u istaknutom međunarodnom časopisu	M22	10
Rad u međunarodnom časopisu	M23	19
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	6
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	5
Saopštenje sa međunarodnog skupa štampano u celini	M33	151
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	5
Istaknuta monografija nacionalnog značaja	M41	1
Monografska bibliografska publikacija	M43	4
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	4
Leksikografska jedinica u naučnoj publikaciji vodećeg nacionalnog značaja	M46	1
Rad u vodećem časopisu nacionalnog značaja	M51	5
Rad u časopisu nacionalnog značaja	M52	2
Rad u naučnom časopisu	M53	18
Uređivanje naučnog časopisa nacionalnog značaja (na godišnjem nivou)	M55	2
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	46
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
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
Bitno poboljšan postojeći proizvod ili tehnologija	M84	3
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	1

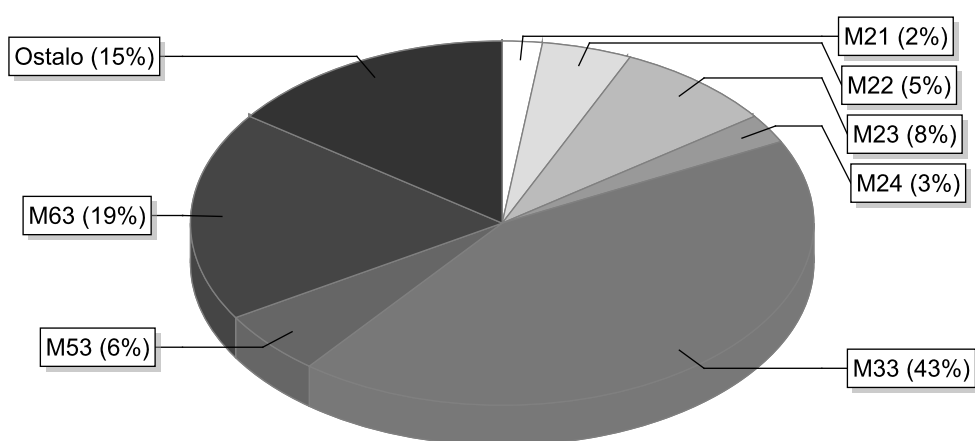


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za proizvodne sisteme, organizaciju i menadžment

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Monografija međunarodnog značaja	M12	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	3
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	3
Rad u vrhunskom međunarodnom časopisu	M21	4
Rad u istaknutom međunarodnom časopisu	M22	9
Rad u međunarodnom časopisu	M23	16
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	5
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	2
Saopštenje sa međunarodnog skupa štampano u celini	M33	83
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Monografska bibliografska publikacija	M43	2
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	3
Leksikografska jedinica u naučnoj publikaciji vodećeg nacionalnog značaja	M46	1
Rad u vodećem časopisu nacionalnog značaja	M51	3
Rad u časopisu nacionalnog značaja	M52	2
Rad u naučnom časopisu	M53	11
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	36
Odbranjena doktorska disertacija	M71	3
Bitno poboljšan postojeći proizvod ili tehnologija	M84	1





## PRODUKCIJA - REZULTATI

### Spisak rezultata M12 - Monografija međunarodnog značaja

1. Njegomir V., Marović B., Pejanović R., Kuzmanović B.: Klimatske promene i osiguranje poljoprivrede, Beograd, Princip Pres, 2017, ISBN ISBN 978-86-6189-10, UDK: 631:368 551.583:631 005.334:631

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

1. Gajić D., Dragan D., Petrović V., Mihić S., Anišić Z., Vezilić B., Vladimir P.: "Binary Classification of Images for Applications in Intelligent 3D Scanning", in Intelligent Distributed Computing XI, Chapter 18, [https://link.springer.com/chapter/10.1007/978-3-319-66379-1\\_18](https://link.springer.com/chapter/10.1007/978-3-319-66379-1_18), New York, Springer, 2017, str. 199-209, ISBN 978-3-319-66378-4

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

1. Lalić D., Krstić N., Vujičić D.: Digital marketing in Serbia: a sectoral view. Digitalni prostori: izazovi i očekivanja / Digital spaces: challenges and expectations., Beograd, Fakultet za medije i komunikacije, Centar za medije i komunikacije, 2017, ISBN 978-86-87107-84-7
2. Melović B., Mitrović Veljković S., Rondović B., Alpackaya I.: Green (Ecological) Marketing in Terms of Sustainable Development and Building a Healthy Environment, Springer, Cham, 2017, str. 1265-1281, ISBN 978-3-319-70987-1, UDK: 10.1007/978-3-319-70987-1\_135
3. Melović B., Rondović B., Mitrović Veljković S., Shoshionov V.: Quality as a Determinant of the Customer's Satisfaction on the Mobile Communication Market, Springer, Cham, 2017, str. 1282-1295, ISBN 978-3-319-70987-1, UDK: 10.1007/978-3-319-70987-1\_136

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

1. Rikalović A., Čosić I., Donida Labati R., Piuri V.: A Comprehensive Method for Industrial Site Selection: The Macro-Location Analysis, IEEE Systems Journal, 2017, Vol. 11, No 4, pp. 2971-2980, ISSN 1932-8184, UDK: 10.1109/JSYST.2015.2444471
2. Rikalović A., Čosić I., Donida Labati R., Piuri V.: Intelligent Decision Support System for Industrial Site Classification: a GIS-based Hierarchical Neuro-Fuzzy Approach, IEEE Systems Journal, 2017, No 99, pp. 1-12, ISSN 1932-8184
3. Vučetić (Petrović) S., Ranogajec J., Markov S., Vidaković A., Hiršenberger H., Bera O.: Development and modeling of the effective bioactive poultices for reducing the nitrate content in building materials, Construction and Building Materials, 2017, Vol. 142, pp. 506-513, ISSN 0950-0618(02)00045-4

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

1. Frank A., Armenski T., Gocić M., Popov S., Popović Lj., Trajković S.: Influence of mathematical and physical background of drought indices on their complementarity and drought recognition ability, Atmospheric Research, 2017, Vol. 194, pp. 268-280, ISSN 0169-8095
2. Jokanović B., Lalić B., Milovančević M., Simeunović N., Marković D.: Economic development evaluation based on science and patents, Physica A: Statistical Mechanics and Its Applications, 2017, Vol. 481, pp. 141-145, ISSN 0378-4371
3. Kiurski J., Marić B., Oros I., Kecić V.: The ecodesign practice in Serbian printing industry, Journal of Cleaner Production, 2017, Vol. 149, pp. 1200-1209, ISSN 0959-6526, UDK: DOI: 10.1016/j.jclepro.2017.02.193
4. Milošević M., Lukić D., Antić A., Lalić B., Ficko M., Šimunović G.: e-CAPP: A distributed collaborative system for internet-based process planning, Journal of Manufacturing Systems, 2017, Vol. 42, pp. 210-223, ISSN 0278-6125

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

1. Kupusinac A., Stokić E., Sukić E., Rankov O., Katić A.: What kind of Relationship is Between Body Mass Index and Body Fat Percentage?, Journal of Medical Systems, 2017, Vol. 41, No 1, ISSN 0148-5598, UDK: DOI: 10.1007/s10916-016-0636-9
2. Marić M., Gračanin D., Zogović N., Ruškić N., Ivanović B.: Parking search optimization in urban area, International Journal of Simulation Modelling, 2017, Vol. 16, No 2, pp. 195-206, ISSN 1726-4529
3. Morača S., Zhang H., Lui S., Ojstersek R.: An effective use of hybrid metaheuristics algorithm for job shop scheduling problem, International Journal of Simulation Modelling, 2017, Vol. 16, No 4, pp. 644-657, ISSN 1726-4529
4. Nikolić S., Gradojević N., Đaković V., Mladenović V., Stanković J.: The marketing-entrepreneurship paradox:

A frequency-domain analysis, *E and M Ekonomije a Management*, 2017, Vol. 20, No 3, pp. 207-218, ISSN 1212-3609, UDK: DOI: 10.15240/tul/001/2017-3-014

5. Radišić M., Dobromirov D.: Statistical Analysis of Price Returns of Regional Stock Market Indices, *Transformations in Business & Economics*, 2017, Vol. 16, No 3(42), pp. 175-186, ISSN 1648-4460
6. Tkalac Verčić A., Lalić D., Vujičić D.: Journalists and public relations practitioners: Comparing two countries, *Public Relations Review*, 2017, ISSN 0363-8111
7. Todić V., Ćosić I., Maksimović R., Tasić N., Radaković N.: Model for simulation of life cycle costs at the stage of product development, *International Journal of Simulation Modelling*, 2017, Vol. 16, No 1, pp. 108-120, ISSN 1726-4529, UDK: 10.2507/IJSIMM16(1)9.373
8. Vidaković A., Ranogajec J., Markov S., Lončar E., Hiršenberger H., Sever Škapin A.: Synergistic effect of the consolidant and the photocatalytic coating on antifungal activity of porous mineral substrates, *Journal of Cultural Heritage*, 2017, ISSN 1296-2074
9. Zubanov V., Katić (Drezgić) I., Grubić-Nešić L., Berber N.: The Role of Management Teams in Business Success: Evidence from Serbia, *Engineering Economics*, 2017, Vol. 28, No 1, pp. 68-78, ISSN 1392-2785

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

1. Beker I., Kesić I., Radlovački V., Delić M., Šević D., Morača S.: Improvement of the Maintenance Management of Complex Technical Systems Which Demand High Reliability, *Tehnicki vjesnik - Technical Gazette*, 2017, Vol. 24, No 5, pp. 1543-1550, ISSN 1330-3651, UDK: 163.42
2. Bojić Ž., Radošević M., Ćosić I., Morača S., Avramović N., Antić A.: The analysis of the impact on the safety of traffic participants and causing the accidents of working machines - tractors, *Tehnicki vjesnik - Technical Gazette*, 2017, Vol. 24, No 5, pp. 1591-1596, ISSN 1330-3651
3. Đaković V., Anđelić G.: The Possibilities of Application of the Parametric and Nonparametric VaR Daily Returns Estimation - Regional Perspective, *Engineering Economics*, 2017, Vol. 28, No 2, pp. 127-134, ISSN 1392-2785
4. Kabok J., Radišić S., Kuzmanović B.: Cluster analysis of higher-education competitiveness in selected European countries, *Ekonomika istraživanja - Economic Research*, 2017, Vol. 30, No 1, pp. 845-857, ISSN 1331-677X
5. Lazarević M., Vukelić Đ., Stankovski S., Sremčev N., Ostojić G.: Enhancing Student Competence through Novel Student Enterprise Concept, *International Journal of Engineering Education*, 2017, Vol. 33, No 6(A), pp. 1824-1833, ISSN 0949-149X
6. Milić B., Grubić-Nešić L., Kuzmanović B., Delić M.: The influence of authentic leadership on the learning organization at the organizational level: The mediating role of employees' affective commitment, *Journal for East European Management Studies*, 2017, Vol. 22, No 1, ISSN 0949-6181
7. Pečujlija M., Jakšić K., Drobnjak S., Ćosić I., Kesetović Ž., Šešlija D.: Serbian Companies reactivity and flexibility and their crisis management efficiency and effectiveness, *Journal for East European Management Studies*, 2017, Vol. 22, No 2, pp. 257-270, ISSN 0949-6181
8. Perović V., Bojanić R., Nerandžić B.: Measuring Efficiency of Teaching Process and Faculty in Transition States Using DEA Analysis, *Tehnicki vjesnik - Technical Gazette*, 2017, Vol. 24, No 5(2017), pp. 1509-1517, ISSN 1330-3651
9. Ratković Njegovan B., Vukadinović M., Duđak Lj.: Contribution to the Research of Organizational Socialization: The Importance of Interviews in Anticipatory Stage, *Journal for East European Management Studies*, 2017, Vol. 22, No 2, pp. 169-198, ISSN 0949-6181
10. Simeunović N., Kamenko I., Bugarski V., Jovanović M., Lalić B.: Improving workforce scheduling using artificial neural networks model, *Advances in Production Engineering and Management*, 2017, Vol. 12, No 4, pp. 337-352, ISSN 1854-6250
11. Sladojević S., Anderla A., Čulibrk D., Stefanović D., Lalić B.: Integer Arithmetic Approximation of the HoG Algorithm used for Pedestrian Detection, *Computer Science and Information Systems*, 2017, Vol. 14, No 2, pp. 329-346, ISSN 1820-0214
12. Stevanov B., Stefanović D., Anderla A., Sladojević S., Tasić N.: New Approach to Information Systems Engineering Study Program to Meet Industry Expectations, *International Journal of Engineering Education*, 2017, Vol. 33, No 4, pp. 1369-1379, ISSN 0949-149X
13. Tomašević M., Ralević N., Stević Ž., Marković V., Tešić Z.: ADAPTIVE FUZZY MODEL FOR DETERMINATION OF QUALITY ASSESSMENT SERVICES IN SUPPLY CHAIN, *Tehnicki vjesnik -*

Technical Gazette, 2017, Vol. 25, No 6, pp. 709-717, ISSN 1330-3651

14. Vrgović P., Jošanov Vrgović I.: Crowdsourcing user solutions: which questions should companies ask to elicit the most ideas from its users?, *Innovation - Organization & Management*, 2017, Vol. 19, No 4, pp. 452-462, ISSN 2204-0226
15. Vukadinović M., Ratković Njegovan B., Duđak Lj.: Contribution to the Research of Organizational Socialization: The Importance of Interviews in Anticipatory Stage., *Journal for East European Management Studies*, 2017, Vol. 22, No 2, pp. 169-198, ISSN 0949-6181
16. Zivlak N., Ljubičić M., Xu M., Demko-Rihter J., Lalić B.: Learning by internationalization: Positive effects of innovation in Chinese companies, *Tehnicki vjesnik - Technical Gazette*, 2017, Vol. 24, No 3, pp. 753-759, ISSN 1330-3651, UDK: 62(05)=163.42=111

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

1. Krstić N., Lalić D., Vujičić D.: Awareness and usage of digital marketing through the lens of leading advertisers in Serbia, *Ekonomika preduzeća*, 2017, Vol. 65, No 3-4, pp. 306-320, ISSN 0353-443X
2. Melović B., Mitrović Veljković S., Đokaj A.: CITY-BRAND BUILDING – FROM CITY MARKETING TO CITY BRANDING, *Proceedings of the Faculty of Economics in East Sarajevo*, 2017, Vol. 14, pp. 51-59, ISSN 1840-3557
3. Nešić A., Lalić D.: The Impact of Trust on Job Performance in Organisations, *Management br. 23-24*, 2017, No 38, pp. 27-34, ISSN 1820-0222
4. Ralević N., Glišović N., Đaković V., Anđelić G.: Hybrid System Prediction for the Stock Market: The Case of Transitional Markets, *Industrija*, 2017, Vol. 45, No 1, pp. 45-60, ISSN 0350-0373
5. Vujičić D.: The Impact of Trust on Job Performance in Organisations, *Management br. 23-24*, 2017, No 81, pp. 27-34, ISSN 1820-0222

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

1. Lalić B., Marjanović U.: Success of Social Networking Sites: Evidence from the University of Novi Sad, 15. International Conference on Emerging eLearning Technologies and Applications – ICETA, High Tatras: IEEE, 26-27 Oktobar, 2017, pp. 233-238, ISBN 978-1-5386-3294-9
2. Rikalović A.: ANALYSIS OF LOGISTICS CENTER LOCATION: A GIS – BASED APPROACH, 6. VI International Symposium NEW HORIZONS of transport and communications, Doboj: University of East Sarajevo, 17-18 Novembar, 2017, pp. 19-28, ISBN 978-99955-36-66-4, UDK: UDK 656.1/.2(082)(0.034.4)

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Arsenović M., Sladojević S., Anderla A., Stefanović D., Lalić B.: Deep learning powered automated tool for generating image based datasets, 14. IEEE International Scientific Conference on Informatics (informatics), Poprad: IEEE, 13-17 Novembar, 2017
2. Bajčić B., Reljić V., Milenković I., Šulc J., Vidicki P.: Using a Remotely Controlled Automated Device for Measuring Linear Dimensions in Teaching Activities in Secondary Vocational Schools, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: Faculty of Technical Sciences, 4-6 Oktobar, 2017, pp. 142-147, ISBN 978-86-7892-978-6
3. Beleslin (Šiđanin) I., Ratković Njegovan B., Vukadinović M.: Clickbait Titles: Risky formula for Attracting Readers and Advertisers, 17. International Scientific Conference on Industrial Systems, Novi Sad: Faculty of Technical Sciences, University of Novi Sad, 4-6 Oktobar, 2017, pp. 364-369, ISBN 978-86-7892-978-6
4. Beleslin (Šiđanin) I., Ratković Njegovan B., Vukadinović S. M.: Clickbait titles: risky formula for attracting readers and advertisers., 17. International Scientific Conference on Industrial Systems, Novi Sad: Fakultet tehničkih nauka, 4-6 Oktobar, 2017, ISBN 978-86-7892-978-6
5. Blažić D., Delić M., Cvetković N., Vrhovac V., Peković T.: The impact of lean tools on cost-based efficiency: Evidence from the transitional economy, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department of Industrial Engineering and Engineering Management, 4-6 Oktobar, 2017, pp. 66-71, ISBN 978-86-7892-978-6
6. Borocki J., Cvijić M., Vekić A.: Evaluation of Innovative Activities of SMEs in Emerging Markets Example From Republic of Serbia, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: UNIVERSITY OF NOVI SAD - FACULTY OF TECHNICAL SCIENCES DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT 21000, Novi Sad, Dositej Obradovic Square 6, Serbia, 4-6 Oktobar, 2017, pp. 400-406, ISBN 978-86-7892-978
7. Bunčić S.: Mikrofinansijske institucije -nastanak i opstanak u novim Ekonomskim i pravnim okvirima, 13.

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2. Mitrović Veljković S., Melović B.: Principi savremenog menadžmenta (drugo dopunjeno izdanje), Novi Sad, Fakultet tehničkih nauka, 2017, ISBN 978-86-7892-951-9

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2. Ralević N., Đaković V., Anđelić G., Kiurski J.: Efficient Portfolio Selection and Its Applications to Decision Making, International Journal of System Modeling and Simulation, 2017, Vol. 2, No 1, pp. 27-29, ISSN 2518-0959
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14. Lalić B., Delić M., Branislav B., Tasić N., Katić (Drezgić) I., Katić A.: Analiza zadovoljstva studenata primenom MOODLE ELLAB platforme za učenje na daljinu u procesu realizacije stručne studentske prakse na FTN-DIIM, 23. Trendovi razvoja TREND, Zlatibor: Fakultet tehničkih nauka Univerziteta u Novom Sadu, 22-24 Februar, 2017, pp. 134-139, ISBN 978-86-7892-904-5
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16. Lalić B., Simeunović N., Tasić N., Bogojević B., Šević D., Stefanović D.: Sistematski prilaz definisanja kompetencija studenata kao osnova u postupku razvoja i akreditacije studijskih programa, 23. Trendovi razvoja TREND, Zlatibor: Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 22-24 Februar, 2017, pp. 154-157, ISBN 978-86-7892-904-5
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25. Sanja T., Radišić M., Borocki J.: Područja inženjerskog menadžmenta kao podrška unapređenju poslovnih

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  34. Tešić Z.: Procena troškova novog proizvoda u fazi njegovog razvoja, Infoteh, Jahorina, 2017, Vol. 16, pp. 442-447, ISSN konferencija, 16. Naučno-stručni simpozijum INFOTEH-JAHORINA, Jahorina: Elektrotehnički fakultet Istočno Sarajevo, 22-24 Mart, 2017, pp. 442-447
  35. Vrhovac V., Orošnjak M., Cvetković N., Žizakov M., Nikolić D.: Nove tehnologije učenja u visokom obrazovanju, 23. Trendovi razvoja TREND, Zlatibor: Fakultet tehničkih nauka Univerziteta u Novom Sadu, 22-24 Februar, 2017, pp. 73-76, ISBN 978-86-7892-904-5
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#### Spisak rezultata M71 - Odbranjena doktorska disertacija

1. Jokanović B.: Model razvoja organizacione klime zasnovan na upravljanju znanjem, Novi Sad, Fakultet tehničkih nauka, 2017, str. 1-234
2. Suzić N.: Developing Mass Customization Implementation Guidelines for SMEs, Department of Management and Engineering, Vicenza, University of Padova, Italy, 2017
3. Tasić N.: Model ključnih indikatora performansi institucija visokog obrazovanja, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2017

#### Spisak rezultata M84 - Bitno poboljšani postojeći proizvod ili tehnologija

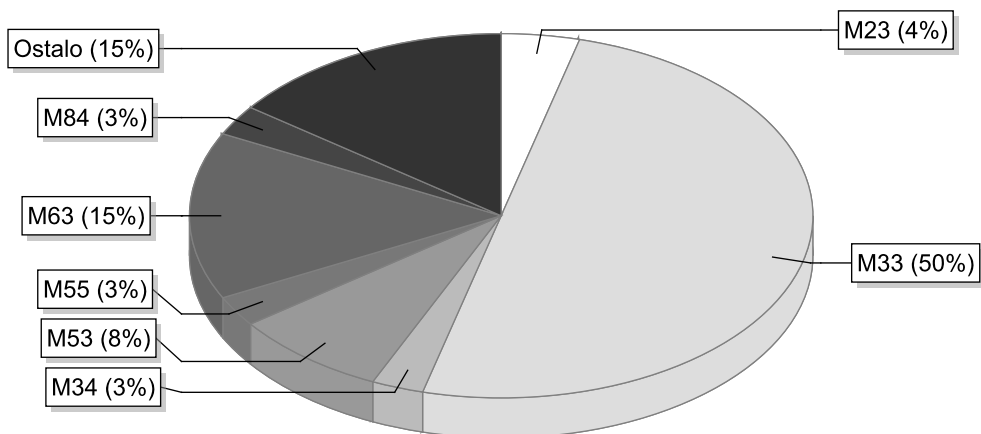
1. Sladojević S., Anderla A., Arsenović M., Sladojević M., Stefanović D., Lolić T., Lalić B.: Mobilni sistem za merenje koncentracije ugljen-monoksida u vazduhu, 2017

# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za mehatroniku, robotiku i automatizaciju

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u međunarodnom časopisu	M23	3
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	37
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Monografska bibliografska publikacija	M43	1
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	6
Uređivanje naučnog časopisa nacionalnog značaja (na godišnjem nivou)	M55	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	11
Saopštenje sa skupa nacionalnog značaja štampano u izvodu	M64	1
Novi proizvod ili tehnologija uvedeni u proizvodnju - međunarodni nivo	M81	1
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1
Bitno poboljšan postojeći proizvod ili tehnologija	M84	2
Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo	M92	1



## PRODUKCIJA - REZULTATI

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

1. Jovanović M., Raković M., Tepavčević B., Borovac B., Nikolić M.: Robotic fabrication of freeform foam structures with quadrilateral and puzzle shaped panels, *Automation in Construction*, 2017, Vol. 74, pp. 28-38, ISSN 0926-5805

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

1. Nikolić M., Borovac B., Raković M.: Dynamic balance preservation and prevention of sliding for humanoid robots in the presence of multiple spatial contacts, *Multibody System Dynamics*, 2017, pp. 1-22, ISSN 1384-5640, UDK: 10.1007/s11044-017-9572-9

### Spisak rezultata M23 - Rad u međunarodnom časopisu

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

1. Oros D., Baranovski I., Stankovski S., Ostojić G., Šiposki A.: Automat za nagradne igre kupaca sa fiskalnim računima, 2017

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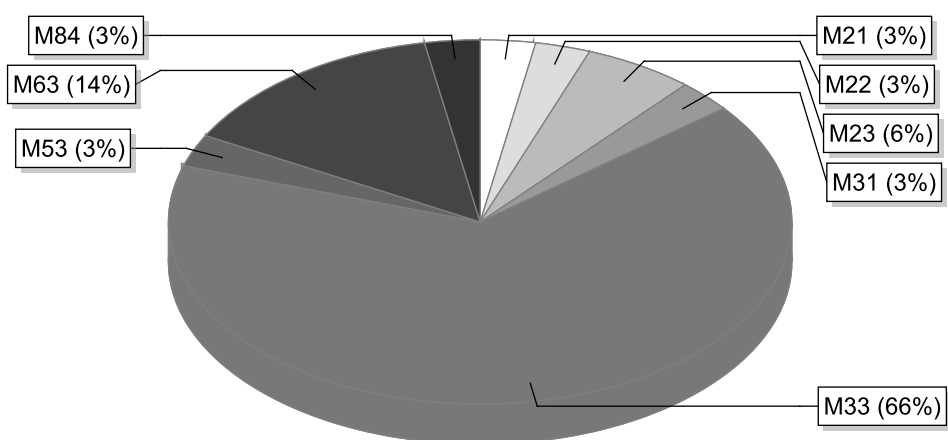
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# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za informaciono-komunikacione sisteme

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	2
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	23
Rad u naučnom časopisu	M53	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5
Bitno poboljššan postojeći proizvod ili tehnologija	M84	1



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

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3. Arsenović M., Sladojević S., Anderla A., Stefanović D.: FaceTime—Deep learning based face recognition attendance system, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: IEEE, 4-6 Oktobar, 2017, pp. 53-58, ISBN 978-1-5386-3855-2
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16. Radišić M., Todorović S., Mirković M.: Compensations and their impact within SMEs, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department for Industrial Engineering and Management, 4-6 Oktobar, 2017, pp. 370-375, ISBN 978-86-7892-978-6
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18. Ramač R., Mandić V.: The Challenges of Developing a Multi-Domain Microservices Platform: The Case of REQSTER, 1. International Conference on Microservices, Odense, 25-26 Oktobar, 2017
19. Sekulić D., Anderla A., Dakić D.: The Role of CAD systems in field of Medicine, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department of Industrial Engineering and Management, 4-6 Oktobar, 2017, pp. 228-231, ISBN 978-86-7892-978-6
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2. Lalić B., Simeunović N., Tasić N., Bogojević B., Šević D., Stefanović D.: Sistematski prilaz definisanja

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3. Novković M., Arsenović M., Sladojević S., Anderla A., Stefanović D.: Data science applied to extract insights from data - weather data influence on traffic accidents, 16. Infoteh-Jahorina, Jahorina, 22-24 Mart, 2017, pp. 387-392
4. Subotić M., Mitrović Veljković S., Grubić-Nešić L., Stefanović D.: Uloga univerziteta u razvoju preduzetništva, 23. Trendovi razvoja TREND, Zlatibor: Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 22-24 Februar, 2017, pp. 348-351, ISBN 978-86-7892-904-5
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Spisak rezultata M84 - Bitno poboljšan postojeći proizvod ili tehnologija

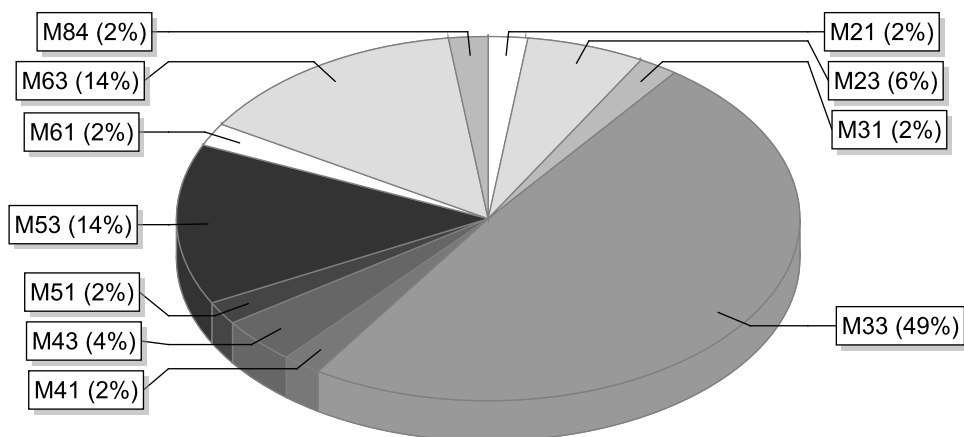
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# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za kvalitet, efektivnost i logistiku

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u međunarodnom časopisu	M23	3
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	24
Istaknuta monografija nacionalnog značaja	M41	1
Monografska bibliografska publikacija	M43	2
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	7
Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini	M61	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	7
Bitno poboljšan postojeći proizvod ili tehnologija	M84	1



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6. Cvetković N., Morača S., Vrhovac V., Milisavljević S.: Measuring the quality and progress of software projects with project metrics, 13. International Conference on Accomplishments in Mechanical and Industrial Engineering - DEMI, Banja Luka: Faculty of Mechanical Engineering, University of Banja Luka, 26-27 Maj, 2017, ISBN 978-99938-39-72-9
7. Delić M., Blažić D., Peković T.: The impact of Lean Six Sigma tools on organisational performance: A literature review, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, Department of Industrial Engineering and Engineering Management, 4-6 Oktobar, 2017, pp. 60-65, ISBN 978-86-7892-978-6
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  19. Orošnjak M., Karanović V., Horvatić Novak A., Peković T., Jocanović M.: Maintenance of a hydraulic system through oil monitoring and contamination control, 16. International Scientific Conference on Production Engineering - CIM, Zadar: Croatian Association of Production Engineering, 8-10 Jun, 2017, pp. 195-202, ISBN 2584-3214
  20. Orošnjak M., Peković T., Jocanović M., Karanović V., Novak Horvatić A.: Using contamination control in condition based maintenance of a hydraulic system, 42. Scientific Conference Maintenance of Machinery and Equipment - OMO, Budva, 24-27 Maj, 2017, pp. 102-111
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  24. Vulcanović S., Delić M., Kamberović B., Beker I., Čerepnalkovska S.: INFLUENCE OF INTEGRATED MANAGEMENT SYSTEM ON RISK MANAGEMENT SYSTEM, 14. International Convention on Quality -

ICQ, Beograd: UASQ-United Association of Serbia for Quality, Belgrade, Serbia., 5-7 Jun, 2017, pp. 63-66, ISBN 978-86-89157-09-3, UDK: 005;006.8

Spisak rezultata M41 - Istaknuta monografija nacionalnog značaja

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2. Jocanović M., Karanović V.: Procesi i sredstva rada, Novi Sad, University of Novi Sad, Faculty of Technical Sciences, 2017, str. 1-285, ISBN 978-86-7892-943-4, UDK: 66.02/09:66.017/.018(075.8)

Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

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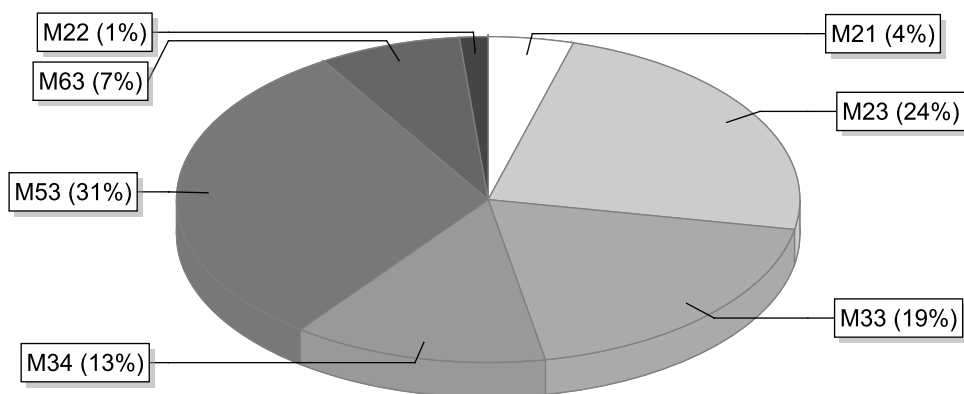
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## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za grafičko inženjerstvo i dizajn

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	3
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	16
Saopštenje sa međunarodnog skupa štampano u celini	M33	13
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	9
Rad u naučnom časopisu	M53	21
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5

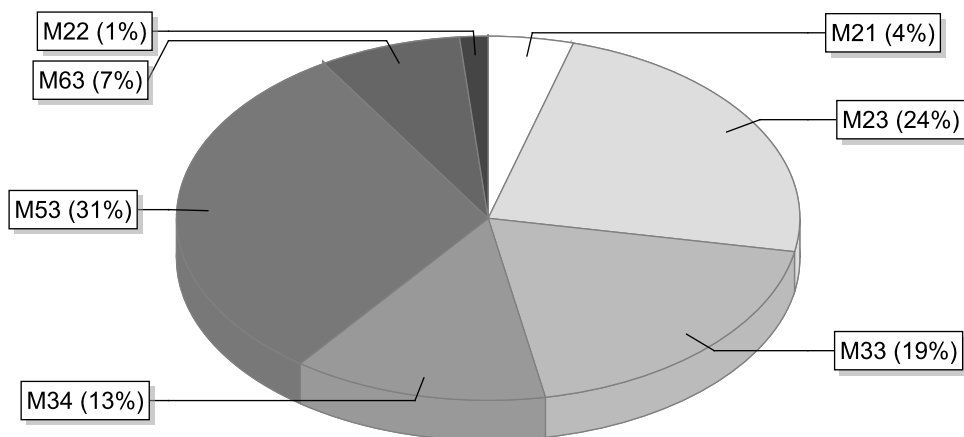


## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za grafičko inženjerstvo i dizajn

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

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Rad u vrhunskom međunarodnom časopisu	M21	3
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Rad u naučnom časopisu	M53	21
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	5



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

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

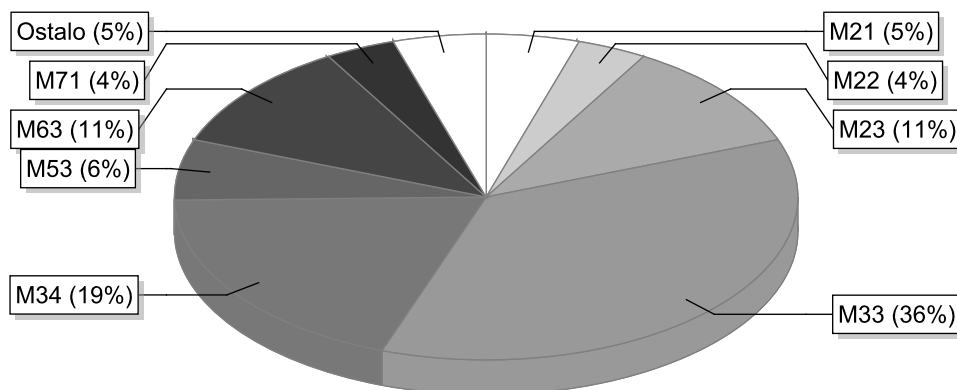
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2. Adamović (Majkić) S., Prica M., Szilágyi A., Kašiković N., Milošević R., Banjanin B.: FIZIČKO-MEHANIČKA I OPTIČKA KARAKTERIZACIJA TETRA PAK AMBALAŽE, 11. ETIKUM, Novi Sad, 6-8 Decembar, 2017, pp. 189-192, ISBN 978-86-6022-00-68
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# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za inženjerstvo zaštite životne sredine

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
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	9
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	30
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	16
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	9
Odbranjena doktorska disertacija	M71	3
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1

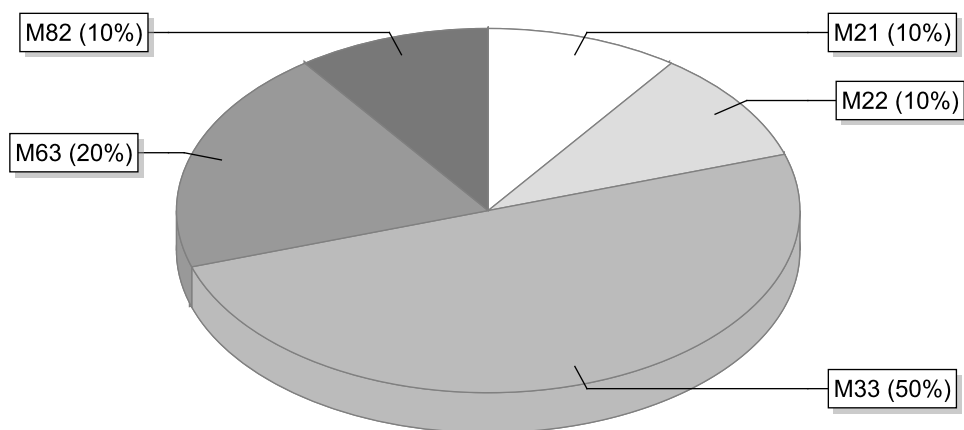


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za inženjerstvo biosistema

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u vrhunskom međunarodnom časopisu	M21	1
Rad u istaknutom međunarodnom časopisu	M22	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	2
Nova proizvodna linija, novi materijal, industrijski prototip,	M82	1



## PRODUKCIJA - REZULTATI

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Jevtić R., Župunski V., Lalošević (Telečki) M., Župunski Lj.: Predicting potential winter wheat yield losses caused by multiple disease systems and climatic conditions, *Crop Protection*, 2017, Vol. 99, pp. 17-25, ISSN 0261-2194

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Župunski V., Jevtić R., Spasić Jokić V., Župunski Lj., Lalošević (Telečki) M., Ćirić M., Ćurčić Ž.: Sampling Error in Relation to Cyst Nematode Population Density Estimation in Small Field Plots, *Journal of Nematology*, 2017, Vol. 49, No 2, pp. 150-155, ISSN 0022-300X

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

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2. Hijazi O., Đatkov Đ., Effenberger M.: Calculating greenhouse gas mitigation from the utilization of biogas for combined heat-and-power production., 45. Actual Tasks on Agricultural Engineering, Opatija: Sveučilište u Zagrebu, Agronomski fakultet, Zavod za mehanizaciju poljoprivrede, 21-24 Februar, 2017, pp. 427-435, ISBN 1848-4425, UDK: 631
3. Knežević I., Čavić M., Bojić S., Rackov M., Penčić M., Surčinski J., Zlokolica M.: Optimal Design of the Mechanism for Configuration Change of the Seedbed Cultivator, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: Faculty of Technical Sciences in Novi Sad, 8-10 Jun, 2017, pp. 1-5, ISBN 978-86-7892-934-2
4. Višković M., Martinov M., Đatkov Đ.: Sustainability of biogas production and utilisation – case studies., 45. Actual Tasks on Agricultural Engineering, Opatija: Sveučilište u Zagrebu, Agronomski fakultet, Zavod za mehanizaciju poljoprivrede, 21-24 Februar, 2017, pp. 407-415, ISBN 1848-4425, UDK: 631
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Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini

1. Zoraja B., Beronja M.: Neophodna tehnička dokumentacija za stavljanje opreme pod pritiskom u upotrebu i davanje na korišćenje, 4. Primenjena zaštita i njeni trendovi, Zlatibor: Međunarodni inst. za primenjeno upravljanje znanjem, 20-22 Septembar, 2017, pp. 79-86, ISBN 978-86-80048-09-3
2. Zoraja B., Ubavin D., Hadžistević M., Živančev M.: Razvoj metodologije za aproksimaciju količina azbestnog otpada u Srbiji, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 167-174, ISBN 978-86-919221-2-2

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

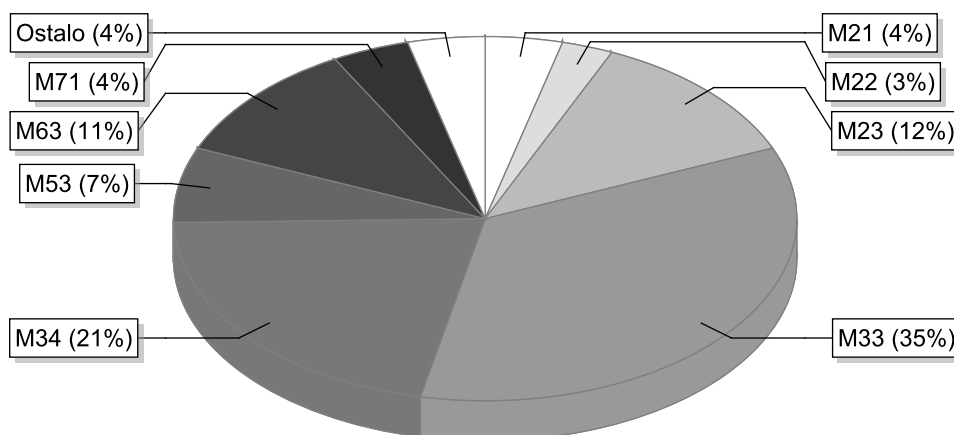
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# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za inženjerstvo zaštite životne sredine

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
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	9
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	26
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	16
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u naučnom časopisu	M53	5
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	8
Odbranjena doktorska disertacija	M71	3



## PRODUKCIJA - REZULTATI

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

1. Pap S., Šolević Knudsen T., Radonić (Jakšić) J., Maletić S., Igić S., Turk Sekulić M.: Utilization of fruit processing industry waste as green activated carbon for the treatment of heavy metals and chlorophenols contaminated water, *Journal of Cleaner Production*, 2017, Vol. 162, pp. 958-972, ISSN 0959-6526

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

1. Kovačević S., Radišić M., Laušević M., Dimkić M.: Occurrence and behavior of selected pharmaceuticals during riverbank filtration in The Republic of Serbia, *Environmental Science and Pollution Research*, 2017, Vol. 24, No 2, pp. 2075-2088, ISSN 0944-1344
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3. Stanisavljević N., Levis J., Barlaz M.: Application of a Life Cycle Model for European Union Policy-Driven Waste Management Decision Making in Emerging Economies, *Journal of Industrial Ecology*, 2017, ISSN 1088-1980

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

1. Štrbac G., Štrbac D., Lukić-Petrović S., Šiljegović M.: Thermal characterization of glasses from Fe-Sb-S-I system, *Journal of Thermal Analysis and Calorimetry*, 2017, Vol. 127, No 1, pp. 247-254, ISSN 1388-6150
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2. Kovačević S., Radišić M., Mitrinović D., Vojt P., Živančev (Šenk) N.: Tracer Test and Behavior of Selected Pharmaceuticals, *Water Science and Technology: Water Supply*, 2017, ISSN 1606-9749
3. Marković M., Vojinović-Miloradov M., Ignjatović Lj., Obrovski B., Čavić A., Mihajlović I.: Ecological status of artificial accumulation lake Vrutci, case study, Serbia, *Fresenius Environmental Bulletin*, 2017, Vol. 26, No 8/2917, pp. 5184-5189, ISSN 1018-4619
4. Perović M., Obradović V., Kovačević S., Mitrinović D., Živančev (Šenk) N., Nenin T.: Indicators of Groundwater Potential for Nitrate Transformation in a Reductive Environment, *Water Environment Research*, 2017, Vol. 89, No 1, pp. 4-16, ISSN 1061-4303
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### Spisak rezultata M24 - Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom

1. Dimkić M., Kovačević S., Pušić M., Dotlić M.: Modeling of Sorption and Degradation of selected Pharmaceuticals: case study of Belgrade Groundwater Source, *Geološki anali Balkanskoga poluostrva*,

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Adamović (Majkić) S., Prica M., Adamović D., Mihailović A., Dalmacija B., Maletić S., Beljin J.: The influence of electrode combinations on the kinetics removal of organic substances from the printing effluent, 23. International Symposium on Analytical and Environmental Problems (ISAEP), Szeged: University of Szeged, Department of Inorganic and Analytical Chemistry, H-6720 Szeged, Dóm tér 7, Hungary, 9-10 Oktobar, 2017, pp. 82-86, ISBN 978-963-306-563-1
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3. Batinić B., Vaccari M., Savvilotidou V., Kousaiti A., Gidaracos E., Marinković T.: Applied WEEE pre-treatment methods: Opportunities to maximizing the recovery of critical metals, 15. International Conference on Environmental Science and Technology, Rhodes, 31-2 Avgust, 2017
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7. Čepić Z., Nakomčić-Smaragdakis B., Dragutinović N.: Description of Straw Combustion in Fixed Bed, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS 2017 Conference Secretariat University of Novi Sad Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-3, ISBN 978-86-7892-933-5
8. Diedler S., Hobohm J., Kuchta K., Batinić B., Burger C.: Availability of data regarding WEEE facilities – Comparison between Germany and Serbia, 15. International Conference on Environmental Science and Technology, Rhodes, 31-2 Avgust, 2017
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16. Obrovski B., Bajić J., Mihajlović I., Vojinović-Miloradov M., Batinić B., Živančev (Šenk) N., Rajs V.: Monitoring of orthophosphate in river Danube, 8. PSU-UNS International Conference on Engineering and Technology - ICET, Novi Sad: PSU-UNS ICET 2017, University of Novi Sad, Faculty of Technical Sciences, 8-10 Jun, 2017, pp. 1-3, ISBN 978-86-7892-934-2
17. Obrovski B., Bajić J., Mihajlović I., Vojinović-Miloradov M., Šunjević M., Bežanović V., Adamović D., Rajs V.: MONITORING OF INORGANIC CHEMICAL PARAMETERS IN RIVER DANUBE, NOVI SAD, SERBIA, 23. International Symposium on Analytical and Environmental Problems (ISAEP), Szeged: University of Szeged, Department of Inorganic and Analytical Chemistry, 9-10 Oktobar, 2017, pp. 265-268, ISBN 978-963-306-563-1
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20. Sremački M., Milanović M., Mihajlović I., Španik I., Turk Sekulić M., Radonić (Jakšić) J., Vojinović-Miloradov M.: Risk assessment of DDT and metabolites in waste and surface water of Novi Sad, 14. Ecological Truth (Eco Ist), Vrnjačka Banja: Univerzitet u Beogradu, Tehnički fakultet u Boru, 12-15 Jun, 2016, pp. 549-554
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Spisak rezultata M34 - Saopštenje sa međunarodnog skupa štampano u izvodu

1. Adamović D., Vojinović-Miloradov M., Dorić J., Adamović (Majkić) S., Obrovski B., Radonić (Jakšić) J., Turk Sekulić M.: Benzene concentration levels in exhaust gas of experimental engine, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Slovak University of Technology, 20-22 Septembar, 2017, pp. 1-1, ISBN 978-80-227-4731-8
2. Bošković N., Kištof R., Kožar Logar J., Radonić (Jakšić) J., Pap S., Turk Sekulić M.: Alternative activated carbon and the removal of radioactive micropollutants from environmental water, 9. Jožef Stefan International Postgraduate School Students' Conference and Young researchers Day, Ljubljana: Narodna in univerzitetna knjižnica, 19-20 April, 2017, pp. 67-67, UDK: 5/6(082)(0.034.2) 378.046-021.68:001.891(497.4)(082)(0.034.2)
3. Čelić N., Lukić-Petrović S., Ivetić T., Novaković M., Petrović D.: ZnO/SnO<sub>2</sub> PMMA Nanocomposites for

Photocatalytic Applications, 4. International Conference on Nanotechnology, Nanomaterials & Thin Films for Energy Applications, Helsinki: Aalto University, Finland, 26-28 Jul, 2017, pp. 7-7

4. Krtolica I., Vojinović-Miloradov M., Radulović S., Cvijanović (Laketić) D., Sremački M., Obrovski B., Obradović Đ.: Macrophyte presence as indicator of Danube river ecological status- artificial intelligence modeling approach, 23. International Scientific Conference "Engineering for Environment Protection" – TOP, Šamorin-Čilistov: Slovak University of Technology, 20-22 Septembar, 2017, pp. 32-32, ISBN 978-80-227-4731-8
5. Novaković M., Bežanović V., Štrbac D., Ivetić T., Petrović (Đogo) M., Štrbac G., Mihajlović I.: Degradation of Non-Steroidal Anti-Inflammatory Drug-Naproxen from Aqueous Solution by Photocatalysis with Nanopowder Mixtures, 9. Eastern European Young Water Professionals Conference, Budimpešta: Budapest University of Technology and Economics, 24-27 Maj, 2017, pp. 391-392, ISBN 978-963-313-256-2
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11. Radonić (Jakšić) J., Rakarić Z., Turk Sekulić M., Vojinović-Miloradov M.: Development of a model for prediction of gas-particle partitioning of polycyclic aromatic hydrocarbons at urban and industrial locations, 19. International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Rim, 4-6 Oktobar, 2017, pp. 187-187
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15. Turk Sekulić M., Pap S., Bošković N., Milanović M., Radonić (Jakšić) J., Obrovski B., Grujić-Letić N.: Low-cost pharmaceutical removal from water using activated carbon prepared from cherry/sweet cherry kernels, 27. SETAC Europe Annual Meeting, Brisel, 7-11 Maj, 2017, pp. 310-310
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#### Spisak rezultata M51 - Rad u vodećem časopisu nacionalnog značaja

1. Sremački M., Obrovski B., Mihajlović I., Petrović (Đogo) M., Vojinović-Miloradov M., Ubavin D.: Detekcija i procena rizika na životnu sredinu ftalata u deponijskom filtratu, površinskoj i otpadnoj vodi, Voda i sanitarna

Spisak rezultata M53 - Rad u naučnom časopisu

1. Colaković M., Sremački M., Bežanović V., Mihajlović I.: Identifikacija specifičnih organskih polutanata komunalnih nesanitarnih deponija u Vojvodini skrining analizom, Zbornik radova Fakulteta tehničkih nauka, 2017, Vol. 32, No 5, pp. 174-177, ISSN 0350-428X
2. Đorđić D., Đurić S., Hadžistević M.: Analysis of transformer, motor and other types of oil flow in electric power distribution system in developing countries, Annals of Faculty Engineering Hunedoara - International Journal of Engineering, 2017, Vol. 15, No 1, pp. 53-58, ISSN 1584-2665
3. Đorđić D., Đurić S., Hadžistević M.: Transformer oil and potential risks for environment, Acta Technica Corviniensis, 2017, Vol. 10, No 1, pp. 101-105, ISSN 2067-3809
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Spisak rezultata M63 - Saopštenje sa skupa nacionalnog značaja štampano u celini

1. Adamović D., Vojinović-Miloradov M., Adamović (Majkić) S., Radonić (Jakšić) J., Turk Sekulić M., Obrovski B., Pap S.: Benzen u radnoj i životnoj sredini, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 175-181, ISBN 978-86-919221-2-2
2. Ilić Mićunović M., Agarski B., Kosec B., Nagode A., Miroslavljević Z.: Personalna izloženost pešaka zagađivačima vazduha na prometnoj saobraćajnici Grada Novog Sada, 11. International Scientific Conference ETIKUM, Novi Sad: Fakultet tehničkih nauka, 6-8 Decembar, 2017, pp. 209-212, ISBN 978-86-6022-00-68
3. Krnjetin S., Šupić S.: ANALIZA POŽARA NA SAKRALNIM OBJEKTIMA, 4. Primenjena zaštita i njeni trendovi, Zlatibor: Međunarodni institut za primenjeno upravljanje znanjem, 20-22 Septembar, 2017, pp. 160-168, ISBN 978-86-80048-09-3
4. Krnjetin S., Šupić S.: ГРАЂЕЊЕ БАЛИРАНОМ СЛАМОМ – ПОЖАРНА БЕЗБЕДНОСТ, 4. Primenjena zaštita i njeni trendovi, Zlatibor: Međunarodni institut za primenjeno upravljanje znanjem, 20-22 Septembar, 2017, pp. 169-177, ISBN 978-86-80048-09-3
5. Marinković T., Batinić B., Stanisavljević N.: ANALIZA TRENUTNOG SISTEMA UPRAVLJANJA OTPADOM OD ELEKTRIČNIH I ELEKTRONSKIH PROIZVODA U REPUBLICI SRBIJI, 47. Otpadne vode, komunalni čvrst otpad i opasan otpad, Pirot, 5-7 April, 2017
6. Obrovski B., Mihajlović I., Bajić J., Vojinović-Miloradov M., Bežanović V., Rajs V.: Procena kontaminacije reke Dunav na ispuštima otpadne vode u Novom Sadu, 11. ETIKUM, Novi Sad: Fakultet Tehničkih Nauka, Departman za proizvodno mašinstvo, 6-8 Decembar, 2017, pp. 197-201, ISBN 978-86-6022-00-68
7. Šunjević M., Vojinović-Miloradov M., Obrovski B., Kustudić M.: New emerging materials between architecture and environmental protection, 11. ETIKUM, Novi Sad: Fakultet Tehničkih Nauka, Departman za proizvodno mašinstvo, 6-8 Decembar, 2017, pp. 201-205, ISBN 978-86-6022-00-68
8. Zoraja B., Ubavin D., Hadžistević M., Živančev M.: Razvoj metodologije za aproksimaciju količina azbestnog otpada u Srbiji, 14. Zaštita na radu – Put uspešnog poslovanja, Divčibare: Savez zaštite na radu Srbije, 4-7 Oktobar, 2017, pp. 167-174, ISBN 978-86-919221-2-2

Spisak rezultata M71 - Odbranjena doktorska disertacija

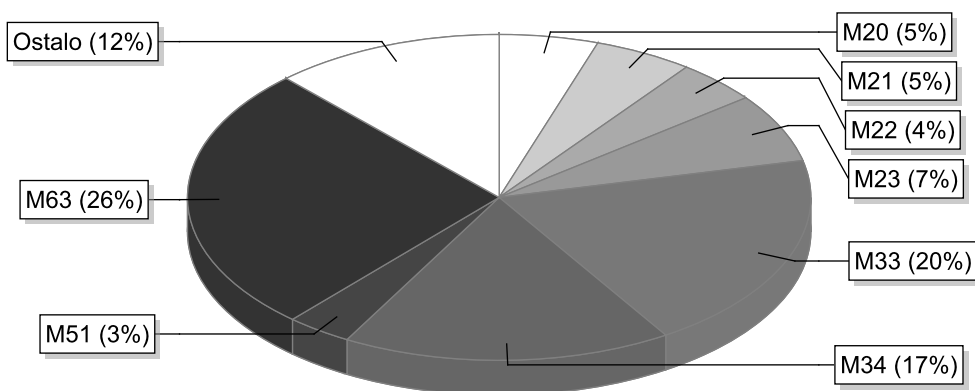
1. Kovačević S.: Analiza samoprečišćavajućeg potencijala podzemnih voda za uklanjanje farmaceutika primenom metode rečne obalske filtracije, Novi Sad, Fakultet tehničkih nauka, 2017
2. Pap S.: Novi adsorpcioni medijumi za separaciju neorganskih polutanata otpadnih voda bazirani na termohemijskoj konverziji biomase, Novi Sad, Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 2017
3. Sremački M.: Moduli određivanja emergentnih ksenobiotika u mešovitim otpadnim vodama, Novi Sad, Fakultet tehničkih nauka, 2017

## GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Departman za opšte discipline u tehnici

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	6
Rad u vrhunskom međunarodnom časopisu	M21	6
Rad u istaknutom međunarodnom časopisu	M22	5
Rad u međunarodnom časopisu	M23	8
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	3
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	23
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	20
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Monografska bibliografska publikacija	M43	1
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	3
Rad u vodećem časopisu nacionalnog značaja	M51	4
Rad u časopisu nacionalnog značaja	M52	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	31
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	1

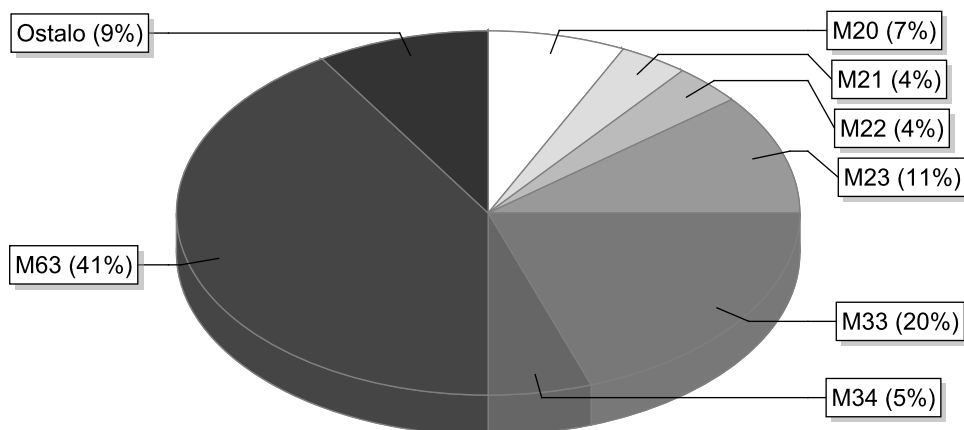


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za matematiku

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	4
Rad u vrhunskom međunarodnom časopisu	M21	2
Rad u istaknutom međunarodnom časopisu	M22	2
Rad u međunarodnom časopisu	M23	6
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	11
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	3
Monografska bibliografska publikacija	M43	1
Rad u vodećem časopisu nacionalnog značaja	M51	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	23
Prototip, nova metoda, softver, standardizovan ili atestiran instrument,	M85	1



## PRODUKCIJA - REZULTATI

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

1. Tomić F., Teofanov N.: Ultradifferentiable functions of class  $M_p(\tau, \sigma)$  and microlocal regularity, *Advances in Partial Differential Equations, Generalized functions and Fourier analysis*, Birkhaeuser, (2017)., Basel, Birkhaeuser, 2017, str. 193-213

Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Ilin V., Ivetić J., Simić D.: Understanding the determinants of e-business adoption in ERP-enabled firms and non-ERP-enabled firms: A case study of the Western Balkan Peninsula, *Technological Forecasting and Social Change*, 2017, Vol. 125, pp. 206-223, ISSN 0040-1625
2. Lozanov-Crvenković Z., Štajner-Papuga I., Grujić G.: General fuzzy integral as a base for estimation of fuzzy quantities, *Fuzzy Sets and Systems*, 2017, Vol. 326, pp. 69-80, ISSN 0165-0114
3. Mihailović B., Miler Jerković V., Malešević B.: Solving fuzzy linear systems using a block representation of generalized inverses: The group inverse, doi.org/10.1016/j.fss.2018.04.015, *Fuzzy Sets and Systems*, 2017, ISSN 0165-0114
4. Mihailović B., Miler Jerković V., Malešević B.: Solving fuzzy linear systems using a block representation of generalized inverses: The Moore–Penrose inverse, doi.org/10.1016/j.fss.2017.11.007, *Fuzzy Sets and Systems*, 2017, ISSN 0165-0114

Spisak rezultata M21 - Rad u vrhunskom međunarodnom časopisu

1. Satarić M., Sekulić D., Zdravković S., Ralević N.: A biophysical model of how  $\alpha$ -tubulin carboxy-terminal tails tune kinesin-1 processivity along microtubule, *Journal of Theoretical Biology*, 2017, Vol. 420, pp. 152-157, ISSN 0022-5193
2. Simić D., Kovačević I., Svirčević V., Simić S.: 50 years of fuzzy set theory and models for supplier assessment and selection: A literature review, *Journal of Applied Logic*, 2017, Vol. 24, No Part A, pp. 85-96, ISSN 1570-8683

Spisak rezultata M22 - Rad u istaknutom međunarodnom časopisu

1. Gajić Lj., Stojaković M.: Sehgal-Thomas Type Fixed Point Theorems in Generalized Metric Spaces, *FILOMAT*, 2017, Vol. 31, No 11, pp. 3347-3356, ISSN 0354-5180
2. Nedović Lj., Ralević N., Pavkov I.: Aggregated distance functions and their application in image processing, *Soft Computing*, 2017, ISSN 1432-7643

Spisak rezultata M23 - Rad u međunarodnom časopisu

1. Bodroža Pantić O., Harris K., Doroslovački R., Pantić M.: A LIMIT CONJECTURE ON THE NUMBER OF HAMILTONIAN CYCLES ON THIN TRIANGULAR GRID CYLINDER GRAPHS, *Discussiones Mathematicae Graph Theory*, 2017, ISSN 1234-3099
2. Grbić T., Medić S., Perović A., Mihailović B., Novković N., Duraković N.: A Premium Principle Based on the g-integral, *Stochastic Analysis and Applications*, 2017, Vol. 35, No 3, pp. 465-477, ISSN 0736-2994
3. Jakšić S., Pantović J., Gilezan S.: Linked data privacy, *Mathematical Structures in Computer Science*, 2017, Vol. 27, pp. 33-53, ISSN 0960-1295
4. Tomašević M., Ralević N., Stević Ž., Marković V., Tešić Z.: ADAPTIVE FUZZY MODEL FOR DETERMINATION OF QUALITY ASSESSMENT SERVICES IN SUPPLY CHAIN, *Tehnicki vjesnik - Technical Gazette*, 2017, Vol. 25, No 6, pp. 709-717, ISSN 1330-3651
5. Tomić F., Teofanov N.: Inverse closedness and localization in extended Gevrey regularity, *Journal of Pseudo-Differential Operators and Applications*, 2017, ISSN 1662-9981
6. Zlokolica V., Krstanović L., Velicki L., Popović B., Janev M., Ralević N., Obradović R., Jovanov Lj., Babin D.: Semiautomatic Epicardial Fat Segmentation Based on Fuzzy c-Means Clustering and Geometric Ellipse Fitting, *Journal of Healthcare Engineering*, 2017, Vol. 2017, pp. 1-12, ISSN 2040 2295

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

1. Ralević N., Glišović N., Đaković V., Anđelić G.: Hybrid System Prediction for the Stock Market: The Case of Transitional Markets, *Industrija*, 2017, Vol. 45, No 1, pp. 45-60, ISSN 0350-0373

Spisak rezultata M33 - Saopštenje sa međunarodnog skupa štampano u celini

1. Đaković V., Ralević N., Glišović N.: Dynamic Optimization of the Investment Portfolio in the Contemporary Business Conditions, 17. International Scientific Conference on INDUSTRIAL SYSTEMS - IS, Novi Sad:

University of Novi Sad, Faculty of Technical Sciences, Department for Industrial Engineering and Management, 4-6 Oktobar, 2017, pp. 392-395, ISBN 978-86-7892-978-6, UDK: 658.5 (082)

- Đurić I., Obradović R., Ralević N.: A REVIEW OF AUGMENTED REALITY FOR ARCHITECTURE VISUALIZATION, 4. Geometrias, Coimbra: APROGED (Associação dos Professores de Geometria e de Desenho), 16-18 Jun, 2017, pp. 88-92, ISBN 978-989-98926-4-4
- Kordić B., Popović M., Gilezan S., Bašičević I.: An Approach to Formal Verification of Python Software Transactional Memory, 5. European Conference on the Engineering of Computer Based Systems ECBS, Larnaka, 31-1 Avgust, 2017, pp. 1-10, ISBN 978-1-4503-4843-0
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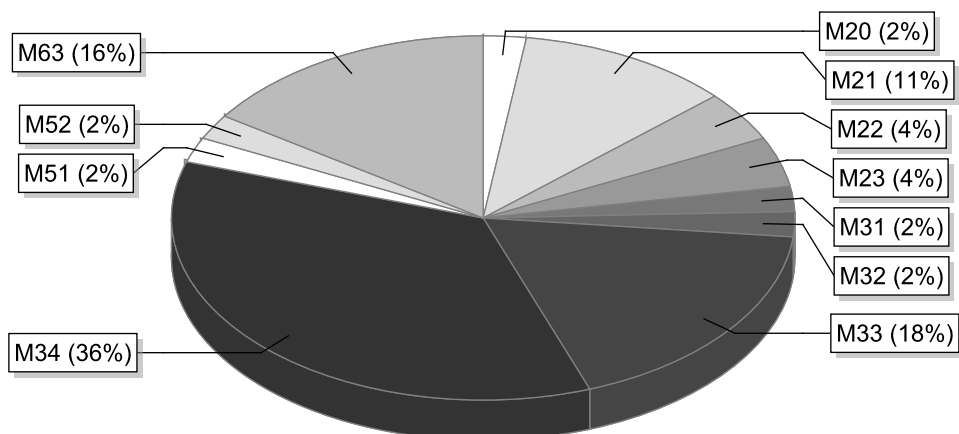
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# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za fiziku

Zbirni pregled naučno istraživačkih rezultata u 2017. 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	2
Rad u međunarodnom časopisu	M23	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	8
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	16
Rad u vodećem časopisu nacionalnog značaja	M51	1
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	7



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

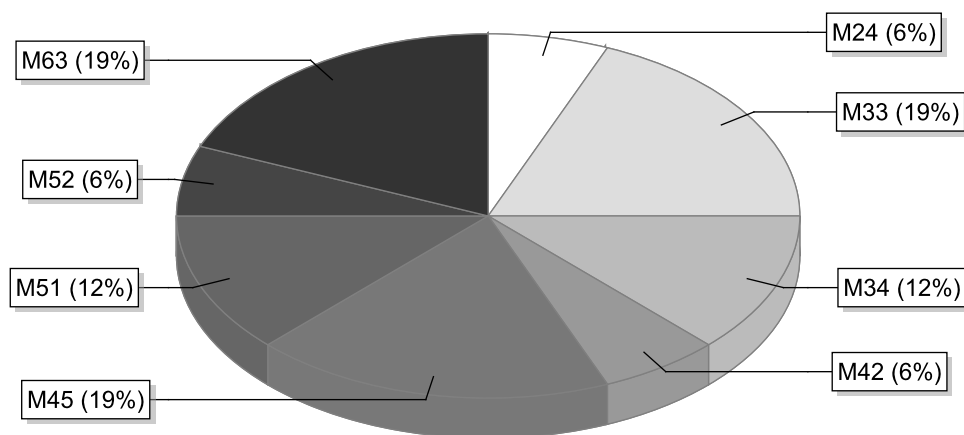
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5. Stojković (Jakonić) I., Todorović (Žikić) N., Nikolov J., Tenjović B.: Rapid LSC method for direct alpha/beta measurements in waters, 29. XXIX SIMPOZIJUM DRUŠTVA ZA ZAŠTITU OD ZRAČENJA SRBIJE I CRNE GORE, Srebrno jezero, 27-29 Septembar, 2017, pp. 537-543, ISBN 978-86-7306-144-3
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# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za društvene nauke

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	3
Saopštenje sa međunarodnog skupa štampano u izvodu	M34	2
Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta	M42	1
Poglavlje u knjizi M42 ili rad u tematskom zborniku nacionalnog značaja	M45	3
Rad u vodećem časopisu nacionalnog značaja	M51	2
Rad u časopisu nacionalnog značaja	M52	1
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	3



## PRODUKCIJA - REZULTATI

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

1. Nešić A., Lazar Ž.: Procena političke kulture pripadnika stranaka u gradovima AP Vojvodine. , Sociologija, 2017, Vol. 59, No 1, pp. 81-101, ISSN 0038-0318

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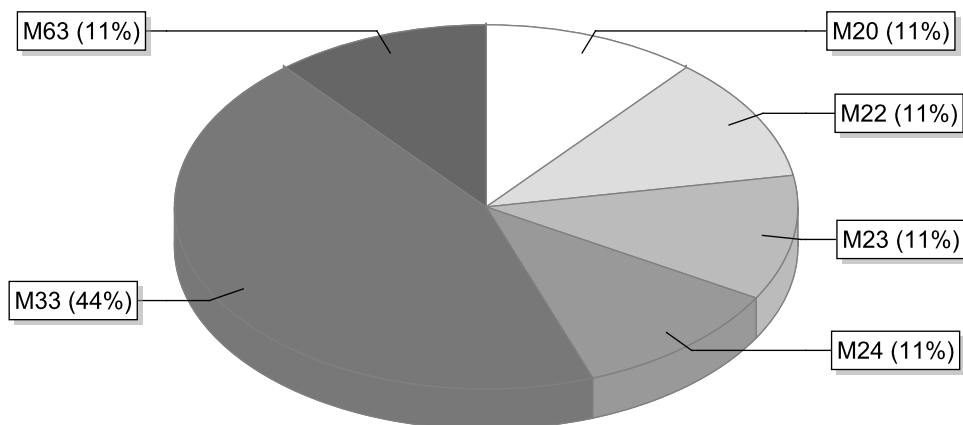


# GODIŠNJI IZVEŠTAJ O NAUČNOISTRAŽIVAČKOJ DELATNOSTI

Katedra za animaciju u inženjerstvu

Zbirni pregled naučno istraživačkih rezultata u 2017. godini.

Rezultat	Oznaka, prema oznakama resornog Ministarstva za nauku	Broj
Rad u međunarodnom časopisu izuzetnih vrednosti	M21a	1
Rad u istaknutom međunarodnom časopisu	M22	1
Rad u međunarodnom časopisu	M23	1
Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom	M24	1
Saopštenje sa međunarodnog skupa štampano u celini	M33	4
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	1



## PRODUKCIJA - REZULTATI

Spisak rezultata M21a - Rad u međunarodnom časopisu izuzetnih vrednosti

1. Antić A., Popović B., Krstanović L., Obradović R., Milošević M.: Novel Texture-Based Descriptors for Tool Wear Condition Monitoring, Mechanical Systems and Signal Processing, 2017, Vol. 98, pp. 1-15, ISSN 0888-3270

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1. Đurić I., Obradović R., Ralević N.: A REVIEW OF AUGMENTED REALITY FOR ARCHITECTURE VISUALIZATION, 4. Geometrias, Coimbra: APROGED (Associação dos Professores de Geometria e de Desenho), 16-18 Jun, 2017, pp. 88-92, ISBN 978-989-98926-4-4
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1. Vasiljević I., Dragan D., Obradović R.: Poređenje tehnika za kompresiju stereoskopskih slika, 11. DOGS, Digitalna obrada govora i slike, Novi Sad: Fakultet tehničkih nauka, Univerzitet u Novom Sadu, 22-25 Novembar, 2017, pp. 73-76, ISBN 978-86-7892-993-9

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Radovi objavljeni u časopisima međunarodnog  
značaja ranga M21, M22, M23, tj. časopisima sa  
ISI liste (sa impakt faktorom)  
u periodu 2007/2017***

# Departman za proizvodno mašinstvo

**Vanr. prof. dr Antić, Aco**

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### **Docent dr Agarski, Boris**

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### **Vanr. prof. dr Baloš, Sebastian**

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