

NAUČNO-ISTRAŽIVAČKI REZULTATI (2013) – MAŠINSKI FAKULTET NIŠ
[Istaknuta monografija međunarodnog značaja \(M11\)](#)

1. Petković, M.S., Neta, B., Petković, Lj.D., Džunić, J.: **MULTIPOINT METHODS FOR SOLVING NONLINEAR EQUATIONS**, Elsevier, Amsterdam 2013.

[Monografija međunarodnog značaja \(M12\)](#)

[Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja \(M13\)](#)

1. Džunić, J., Petković, M. S., Petković, Lj. D., **ON AN EFFICIENT FAMILY OF SIMULTANEOUS METHODS FOR FINDING POLYNOMIAL ZEROS**, in : Numerical Mathematics and Advanced Applications, (eds. A. Cangiani, R. L. Davidchack, E. H. Georgoulis, A. Gorban, J. Levesley, M. V. Tretyakov), Springer, Heidelberg-New York, 2013, pp. 149-156, ISBN: 978-3-642-33133-6

[Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja \(M14\)](#)

1. Đorđević, D. B., **PREFACE: ENCOUNTERING OTHERS – ACADEMICIAN IVAN CVITKOVIĆ, SOCIOLOGIST OF RELIGION AND HUMANIST**, in : Encountering Others: religious and confessional identities in Bosnia and Herzegovina, Yugoslav Society for the Scientific Study of Religion, Niš, pp. VII-XIX, ISBN: 978-86-86957-14-6
2. Miltenović, A., Mitrović, R., Banić, M., **CROSSED HELICAL GEARS WITH WHEELS FROM SINTERED STEEL WITH PYROHYDROLYSIS**, Advanced Materials Research, vol. 633, pp. 197 - 208. Trans Tech Publications, ISSN 1662-8985, 2013.
3. Miltenović V., Banić M., Miltenović A.: **LOAD CAPACITY OF WORM GEARS**; Power Transmissions - Series: Mechanisms and Machine Science (ISBN 978-94-007-6557-3), Springer Netherlands, 13/XVI (2013), pp. 141 - 153.
4. Miltenović V., Banić M., Miltenović A.: **THE NEW ENGINEERING EDUCATION MODEL ON UNIVERSITY OF NIŠ**; Power Transmissions - Series: Mechanisms and Machine Science (ISBN 978-94-007-6557-3), Springer Netherlands, 13/XVI (2013), pp. 729 - 741.
5. Slavnić S., Leu A., Ristić –Durrant D., Gräser A., **MODELING AND SIMULATION OF WALKING WITH A MOBILE GAIT REHABILITATION SYSTEM USING MARKERLESS MOTION DATA**, Modeling, Simulation and Optimization of bipedal Walking, Cognitive Systems Monographs, Volume 18, pp 223-232, Springer Berlin Heidelberg, 2013.
6. Tasić, Miloš and Dušan Stamenković. (2013). **TRANSLATING SERBIAN REGIONAL VERBS INTO ENGLISH: THE SOUTHERN DIALECT AND PHONAESTHETIC PROPERTIES**. In H. Pârlog and L. Frențiu (Eds), *Translating Across Cultures* (pp. 111–119). Cambridge: Cambridge Scholars Publishing. ISBN 978-1-4438-4235-8.

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Leksikografska jedinica ili karta u naučnoj publikaciji vodećeg međunarodnog značaja
(M15)

Leksikografska jedinica ili karta u publikaciji međunarodnog značaja (M16)

Uređivanje naučne monografije ili tematskog zbornika vodećeg međunarodnog značaja
(M17)

Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske
publikacije međunarodnog značaja (M18)

1. Đorđević, D. B., ed. **ON RELIGION IN THE BALKANS**, Yugoslav Society for the Scientific Study of Religion, „Ivan Hadjyiski“, Niš, Sofia, 2013, ISBN 978-86-86957-15-3 (YSSSR), ISBN 978-954-91428-6-0 („Ivan Hadjyiski“)

Rad u vrhunskom međunarodnom časopisu (M21)

1. Čojbašić Ž., Brkić D. (2013), **VERY ACCURATE EXPLICIT APPROXIMATIONS FOR CALCULATION OF THE COLEBROOK FRICTION FACTOR**, International Journal of Mechanical Sciences, Volume 67, February 2013, Pages 10–13, DOI:10.1016/j.ijmecsci.2012.11.017 (M21 IF2011=1.231)
2. Gräser A., Heyer T., Fotoohi L., Lange U., Kampe H., Enjarini B., Heyer S., Fragkopoulos C., Ristić-Durrant D., **A SUPPORTIVE FRIEND AT WORK: ROBOTIC WORKPLACE ASSISTANCE FOR THE DISABLED**, Robotics & Automation Magazine, IEEE, vol.20, no.4, pp.148-59, Dec. 2013
3. Henrich Allison Hoberg Rebecca Jablan Slavik Johnson Lee Minten Elizabeth Radovic Ljiljana M, **THE THEORY OF PSEUDOKNOTS**, Journal of knot theory and ramifications, 2013, 22(7) DOI : [10.1142/S0218216513500326](https://doi.org/10.1142/S0218216513500326)
4. Kauffman Louis H, Jablan Slavik V, Radovic Ljiljana M, Sazdanovic Radmila, **REDUCED RELATIVE TUTTE, KAUFFMAN BRACKET AND JONES POLYNOMIALS OF VIRTUAL LINK FAMILIES**, Journal of knot theory and ramifications, 2013, 22 (4) DOI: [10.1142/S0218216513400038](https://doi.org/10.1142/S0218216513400038)
5. Kovačević, M., Madić, M., Radovanović, M., **SOFTWARE PROTOTYPE FOR VALIDATION OF MACHINING OPTIMIZATION SOLUTIONS OBTAINED WITH META-HEURISTIC ALGORITHMS**, Expert Systems with Applications, Vol. 40, No. 17, pp. 6985-6996, 2013
6. Majstorovic, V., Trajanovic, M., Vitkovic, N., Stojkovic, M., **REVERSE ENGINEERING OF HUMAN BONES BY USING METHOD OF ANATOMICAL FEATURES**, CIRP Annals - Manufacturing Technology 62 (2013) 167–170.
7. Pavlović, I., Čirić, I., Djekić, P., Nikolić, V., Pavlović, R., Čojbašić, Ž., Radenković, G., **RHEOLOGICAL MODEL OPTIMIZATION USING ADVANCED EVOLUTIONARY COMPUTATION FOR THE ANALYSIS OF THE INFLUENCE OF RECYCLED RUBBER ON RUBBER BLEND DYNAMICAL BEHAVIOUR**, Meccanica, 2013, DOI 10.1007/s11012-013-9761-4.
8. Petković, D., Pavlović, N.D., Čojbašić, Ž., Pavlović, N.T., **ADAPTIVE NEURO FUZZY ESTIMATION OF UNDERACTUATED ROBOTIC GRIPPER CONTACT FORCES**, Expert Systems With Applications, Vol. 40 (2013), pp. 281-286, 2013.

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- Petković, D., Issa, M., Pavlović, N.D., Zentner, L., **INTELLIGENT ROTATIONAL DIRECTION CONTROL OF PASSIVE ROBOTIC JOINT WITH EMBEDDED SENSORS**, Expert Systems With Applications, Vol. 40 (2013), pp. 1265-1273, 2013.
- Petković, D., Čojbašić, Ž., Lukić, S. (2013), **ADAPTIVE NEURO FUZZY SELECTION OF HEART RATE VARIABILITY PARAMETERS AFFECTED BY AUTONOMIC NERVOUS SYSTEM**, Expert Systems With Applications, ISSN 0957-4174, Volume 40, Issue 11, (2013), 4490-4495.
- Petković, D., Čojbašić, Ž., Nikolić, V., **ADAPTIVE NEURO-FUZZY APPROACH FOR WIND TURBINE POWER COEFFICIENT ESTIMATION**, Renewable and Sustainable Energy Reviews, Volume 28, December 2013, Pages 191–195, DOI: 10.1016/j.rser.2013.07.049
- Stojanović, V., P. Kozić, G. Janevski : **EXACT CLOSED-FORM SOLUTIONS FOR THE NATURAL FREQUENCIES AND STABILITY OF ELASTICALLY CONNECTED MULTIPLE BEAM SYSTEM USING TIMOSHENKO AND HIGH-ORDER SHEAR DEFORMATION THEORY**. Journal of Sound and Vibration, 2013, Vol. 332(3), pp. 563-576.
- Vucicevic, B., Stojiljkovic, M., Afgan, N., Turanjanin, V., Jovanovic, M., Bakic, V., **SUSTAINABILITY ASSESSMENT OF RESIDENTIAL BUILDINGS BY NON-LINEAR NORMALIZATION PROCEDURE**, Energy and Buildings, (2013), vol. 58 br. , str. 348-354.

Rad u istaknutom međunarodnom časopisu (M22)

- Petković, D., Issa, M., Pavlović, N.D., Zentner, L., **APPLICATION OF THE TRIZ CREATIVITY ENHANCEMENT APPROACH TO DESIGN OF PASSIVELY COMPLIANT ROBOTIC JOINT**, The International Journal of Advanced Manufacturing Technology, (2013), ISSN 0268-3768, <http://link.springer.com/article/10.1007%2Fs00170-012-4530-4>, DOI: 10.1007/s00170-012-4530-4
- Rabasović M., Markushev D., Čojbašić Ž., Lukić M., Todorović D. (2013), **SPATIAL LASER BEAM DETERMINATION BY PULSED PHOTOACOUSTICS: DETECTION RADIUS/SIGNAL WAVELENGTH APPROXIMATION**, Physica Scripta, Phys. Scr. T 157 (2013) 014058, DOI:10.1088/0031-8949/2013/T157/014058. (M22 IF2011=1.204)
- Stojanović, V., Kozić, P., **STOCHASTIC STABILITY OF A THICK BEAMS USING CONTACT TRANSFORMATION METHOD**. Probabilistic Engineering Mechanics, (2013), Vol. 34, pp. 110-113
- Issa, M., Petković, D., Pavlović, N.D., Zentner, L., **SENSOR ELEMENTS MADE OF CONDUCTIVE SILICONE RUBBER FOR PASSIVELY COMPLIANT GRIPPER**, The International Journal of Advanced Manufacturing Technology, (2013), Springer, DOI 10.1007/s00170-013-5085-8.

Rad u međunarodnom časopisu (M23)

- Blagojević V., Šešlija D., Stojiljković M., Dudić S., **EFFICIENT CONTROL OF SERVO PNEUMATIC ACTUATOR SYSTEM UTILIZING BY-PASS VALVE AND DIGITAL SLIDING MODE**, Sadhana, Indian Academy of Sciences, Vol 38, N^o2 (April 2013), pp. 187-197, ISSN: 0256-2499 (Print) 0973-7677 (Online)
- Cvetkovic, V.J., Najman, S.J., Rajkovic, J.S., Zabar, A.Lj., Vasiljevic, P.J., Djordjevic, Lj.B., Trajanovic, M.D., **A COMPARISON OF THE MICROARCHITECTURE OF LOWER LIMB LONG BONES BETWEEN SOME ANIMAL MODELS AND HUMANS: A REVIEW**, Veterinarni Medicina, 58, 2013 (7): 339–351

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4. Janković P., M. Radovanović, J. Baralić, B. Nedić, **PREDICTION MODEL OF SURFACE ROUGHNESS IN ABRASIVE WATER JET CUTTING OF ALUMINIUM ALLOY**, J BALK TRIBOL ASSOC, Vol. 19, No 4, 2013, pp. 585-595
5. Pešić V., R. Dorđević, N. Shaban, P. Janković, D. Mišić, **INFLUENCE OF THE AFILA GENE ON GRAIN YIELD IN PEA (*PISUM SATIVUM* L)**, Bulg. J. Agric. Sci., Agricultural Academy, Sofia, Bularia, 19: 186-193
6. Jovanovic G., Zivkovic D., Mancic M., Stankovic V., Stankovic D, Stefanović V., Mitkovic P., **A MODEL OF A SERBIAN ENERGY EFFICIENT HOUSE FOR DECENTRALIZED ELECTRICITY PRODUCTION**, Journal of Renewable and Sustainable Energy (Vol.5, Issue 4), 041810, 1-14, American Institute of Physics, Article Number: 007394RSE, 2013, Manuscript ID: RESEE-130100R1, Vol.5, Issue 4, DOI: 10.1063/1.4812997.
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12. Marković D., Petrović G., Čojbašić Ž., Marinković D.: **A COMPARATIVE ANALYSIS OF METAHEURISTIC MAINTENANCE OPTIMIZATION OF REFUSE COLLECTION VEHICLES USING THE TAGUCHI EXPERIMENTAL DESIGN**, *Transactions of Famena*, Vol. 36, No. 4, 2013, pp. 25-38, ISSN 1333-1124
13. Milčić, D., Miladinović, S., Mijajlović, M., Marković, B., **DETERMINATION OF THE BUCKET WHEEL EXCAVATOR SRS 1300 LOAD SPECTRUM IN THE COAL STRIP MINE DRMNO**, *Transactions of Famena, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia*, XXXVII-1/2013, April 2013, pp 77 - 88, ISSN 1333-1124, UDC 621.791.1
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15. Miltenović A., Nikolić V., Milovancević M., Banić M., **EXPERIMENTAL AND FEM ANALYSIS OF SINTERED STEEL WORM GEAR WEAR**, Transactions Of Famena, Vol. 36, N° 4 (2012), pp. 85-96, ISSN: 1333-1124.
16. Micić, A., Đorđević, B., Lekić, P., Anđelković, B., **AUTOMATIC DETERMINATION OF FILTER COEFFICIENTS FOR LOCAL CONTRAST ENHANCEMENT**, Transaction of FAMENA, ISSN 1333-1124, UDC 004.932, Issue 1, Vol. 37, 2013.
17. Nikolić R., Radovanović M., Živković M., Nikolić A., Rakić D., Blagojević M., **MODELING OF THERMOELECTRIC MODULE OPERATION IN INHOMOGENEOUS TRANSIENT TEMPERATURE FIELD USING FINITE ELEMENT METHOD**, Thermal Science, 2013, Vol. 17, Suppl. 1, pp. S239-S250
18. Pavlović I., Pavlović R., Kozić P., Janevski G. (2013), **ALMOST SURE STOCHASTIC STABILITY OF A VISCOELASTIC DOUBLE-BEAM SYSTEM**, Archive of Applied Mechanics, DOI 10.1007/s00419-013-0767-0
19. Petković, D., Issa, M., Pavlović, N.D., Zentner, L., **ELECTRICAL PROPERTIES ESTIMATION OF CONDUCTIVE SILICONE RUBBER FOR TACTILE SENSING STRUCTURE**, Sensor Review, Vol. 33 (2013), No. 2, 114-124.
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21. Petković, D., Issa, M., Pavlović, N.D., Zentner, L., **APPLICATION OF THE TRIZ CREATIVITY ENHANCEMENT APPROACH TO THE DESIGN OF A PASSIVELY COMPLIANT ROBOTIC GRIPPER**, Assembly Automation, Vol. 33 (2013), No. 3, 231-239.
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24. Petković, D., Pavlović, N.D.: **APPLICATIONS AND ADAPTIVE NEURO-FUZZY ESTIMATION OF CONDUCTIVE SILICONE RUBBER PROPERTIES**, Strojarstvo: časopis za teoriju i praksu u strojarstvu, Volume 54, Number 3, (2013), 197-203.
25. Petrović, E., Leu, A., Ristić-Durrant, D., Nikolić, V., **STEREO VISION-BASED HUMAN TRACKING FOR ROBOTIC FOLLOWER**, International Journal of Advanced Robotic Systems, (2013), Vol. 10.
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28. Rakić D. S., Djordjević D. S., **SPACE PRE-ORDER AND MINUS PARTIAL ORDER FOR OPERATORS ON BANACH SPACES**, Aequationes Mathematicae, Vol. 85, (2013), 429-448
29. Shao Z., Crvenković S., Mitrović M., **THE YELEYNIKOW PROBLEM ON A CLASS OF ADDITIVELY IDEMPOTENT SEMIRINGS**, Journal of the Australian Mathematical Society, DOI: <http://dx.doi.org.proxy.kobson.nb.rs:2048/10.1017/S1446788713000359>
30. Todorović M., Živković D., Mancić M., Ilić G., **APPLICATION OF ENERGY AND EXERGY ANALYSIS TO INCREASE EFFICIENCY OF A HOT WATER GAS FIRED BOILER**, Chemical Industry & Chemical Engineering Quarterly, CI&CEQ, ISSN 1451-9372 (Print) ISSN 2217-7434 (Online), DOI: 10.2298/CICEQ130716033T, 2013.

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32. Vitković, N., Milovanović, J., Korunović, N., Trajanović, M., Stojković, M., Mišić, D., Arsić, S.: **SOFTWARE SYSTEM FOR CREATION OF HUMAN FEMUR CUSTOMIZED POLYGONAL MODELS**. Computer Science and Information Systems, Vol. 10, No. 3, 1473-1497. (2013)

Rad u časopisu međunarodnog značaja verifikovanog posebnom odlukom (M24)

1. Banić M., Stamenković D., Milošević M., Miltenović A., **TRIBOLOGY ASPECT OF RUBBER SHOCK ABSORBERS DEVELOPMENT**, Tribology in Industry, Vol. 35, N° 3 (2013), pp. 225-231, ISSN: 0354-8996 (print version); 2217-7965 (electronic version)
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4. Madić, M., Marinković, V., Radovanović, M., **OPTIMIZATION OF THE KERF QUALITY CHARACTERISTICS IN CO₂ LASER CUTTING OF AISI 304 STAINLESS STEEL BASED ON TAGUCHI METHOD**, Mechanika, Vol. 19, No. 5. pp. 580-587, 2013.
5. Madić, M., Radovanović, M., Slatineanu, L., **SURFACE ROUGHNESS OPTIMIZATION IN CO₂ LASER CUTTING BY USING TAGUCHI METHOD**, UPB Scientific Bulletin, Series D: Mechanical Engineering, Vol. 75, No. 1. pp. 97-106, 2013.
6. Madić, M., Brabie, G., Radovanović, M., **AN ARTIFICIAL NEURAL NETWORK APPROACH FOR ANALYSIS AND MINIMIZATION OF HAZ IN CO₂ LASER CUTTING OF STAINLESS STEEL**, UPB Scientific Bulletin, Series D: Mechanical Engineering, Vol. 75, No. 2. pp. 85-96, 2013.
7. Madić, M., Radovanović, M., Nedić, B., **MODELING AND SIMULATION ANNEALING OPTIMIZATION OF SURFACE ROUGHNESS IN CO₂ LASER NITROGEN CUTTING OF STAINLESS STEEL**, Tribology in Industry, Vol. 35, No. 3. pp. 167-176, 2013.
8. Madić, M., Radovanović, M., **IDENTIFICATION OF THE ROBUST CONDITIONS FOR MINIMIZATION OF THE HAZ AND BURR IN CO₂ LASER CUTTING**, FME Transactions, Vol. 41, No. 2. pp. 130-137, 2013.
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10. Manojlović, J., **DYNAMICS OF SAMS IN BOUNDARY LUBRICATION**, Tribology in Industry Vol. 35, No. 3. pp. 200-207, 2013.
11. Vuković, M., Đorđević, D. B.: **GLOBAL ENVIRONMENTAL ISSUES AND IR THEORIES: A PLURALIST THEORETICAL APPROACH**. Serbian Political Thought, Vol. V, No. 1 (2013), pp. 59-79. ISSN 1450-5460

Naučna kritika i polemika u istaknutom međunarodnom časopisu (M25)

Naučna kritika i polemika u međunarodnom časopisu (M26)

Uređivanje istaknutog međunarodnog časopisa na godišnjem nivou (gost urednik) (M27)

Uređivanje međunarodnog časopisa (M28)

Predavanje po pozivu sa međunarodnog skupa štampano u celini (neophodno pozivno pismo) (M31)

1. Jovanović Dragan B., **ISODYNE STRESS ANALYSIS OF STRESS STATE IN CONTACT REGIONS**, Fourth International (29th Yu) Congress on Theoretical and Applied Mechanics of Serbian Society of Mechanics, (Plenary lecture), Vrnjačka Banja, Serbia, 4-7 June 2013, pp. 59-69
2. Zehn M., Marinković D.: **HIGHER, FARTHER, FASTER – CONSEQUENCES FOR STRUCTURES OF TRUCK-MOUNTED CONCRETE BOOM**, Proceedings of The Second International Conference Mechanical Engineering in XXI Century, MASING, Niš, Serbia, 2013, pp. 9-14

Predavanje po pozivu sa međunarodnog skupa štampano u izvodu (M32)

Saopštenje sa međunarodnog skupa štampano u celini (M33)

1. Arsić,S., Dragana Ilić, Milorad Mitković, Milica Tufegdžić, Sonja Janković, Miroslav Trajanović, **THE STUDY OF MORPHOLOGICAL PARAMETERS OF HUMAN ACETABULUM SIGNIFICANT FOR HIP ARTHROPLASTY**, Proceedings of the 2nd International Conference Mechanical Engineering in XXI Century, 20-21Jun 2013, Nis, Serbia, pp 115-120
2. Banić, M., Stamenković, D., Milošević, M., Miletenović, A., **TRIBOLOGICAL ASPECT OF RUBBER SHOCK ABSORBERS DEVELOPMENT**, Proceedings of 13th International Conference on Tribology – SERBIATRIB '13, ISBN 978-86-86663-98-6, Kragujevac, 2013, pp. 286-291
3. Banić, M., Stamenković, D., Miltenović, V., Milošević, M., Miletenović, A., **IMPLEMENTATION OF VIRTUAL PRODUCT DEVELOPMENT PROCESS ON RUBBER-METAL SPRINGS**, Proceedings of International Conference „Mechanical Engineering in XXI Century“, ISBN 978-86-6055-039-4, Niš, 2013, pp. 227-232
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5. Baralić J., B. Nedić, P. Janković, **EFFECT OF TRAVERSE SPEED AND OPERATING PRESSURE ON SURFACE ROUGHNESS IN AWJ MACHINING**, 35th International conference on production engineering, University of Kragujevac, Faculty of Mechanical and Civil Engineering, Kraljevo, 2013, pp. 137-140

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Autorizovana diskusija sa međunarodnog skupa (M35)

Uređivanje zbornika saopštenja međunarodnog naučnog skupa (M36)

Istaknuta monografija nacionalnog značaja (M41)

Monografija nacionalnog značaja, monografsko izdanje građe, prevod izvornog teksta u obliku monografije (samo za stare jezike) (M42)

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2. Đorđević, D. B. **SKINHEDI: MOMCI IZ NAŠEG KRAJA**, Prometej, Novi Sad, 2013 (četvrto dopunjeno izdanje), ISBN 978-86-515-0861-8

Monografska bibliografska publikacija (M43)

Poglavlje u knjizi M41 ili rad u istaknutom tematskom zborniku vodećeg nacionalnog značaja, prevod izvornog teksta u obliku studije, poglavlja ili članka, prevod ili stručna redakcija prevoda naučne monografske knjige (samo za stare jezike) (M44)

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2. Petrović, V., Marković, J.: **ULOGA I REKREACIJE U INŽENJERSTVU**. U D. B. Đorđević i B. Đurović (Ur.), Profesija inženjer: neka pitanja (str. 93-102). Niš, Srbija, (2013): Mašinski fakultet. ISBN 978-86-6055-041-7; COBISS.SR-ID 201089292
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Leksikografska jedinica u naučnoj publikaciji nacionalnog značaja (M47)

Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije vodećeg nacionalnog značaja (M48)

Uređivanje naučne monografije, tematskog zbornika, leksikografske ili kartografske publikacije nacionalnog značaja (M49)

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Uređivanje naučnog časopisa nacionalnog značaja (na godišnjem nivou) (M56)

Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini (M61)

Predavanje po pozivu sa skupa nacionalnog značaja štampano u izvodu (M62)

Saopštenje sa skupa nacionalnog značaja štampano u celini (M63)

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Saopštenje sa skupa nacionalnog značaja štampano u izvodu (M64)

1. Radenković G, Petković D., **PLASMA ELECTROLYTIC OXIDATION OF AL ALLOY**, The Serbian Ceramic Society Conference »Advanced Ceramics and Application II«Sep 30-Oct 1, 2013, Serbian Academy of Sciences and Arts, Knez Mihailova 35, Belgrade, Serbia, Book of abstracts p. 58.
2. Petković D., Kostić M., Manić M., Krunic N., **EFFECTS OF POST-POLYMERIZATION TREATMENTS ON THE MECHANICAL PROPERTIES OF A DENTURE BASE RESIN**, Twelfth Young Researchers Conference – Materials Science and Engineering, Belgrade, December 11-13, 2013, Book of abstracts, p. 6.
3. Petković D., Radenković G., **EFFECT OF NITRIC ACID PASSIVATION ON THE AISI 316L STAINLESS STEEL CORROSION PROPERTIES**, Sixth international scientific conference Contemporary materials 2013, Banja Luka, July 4 to 6, 2013, Book of abstracts p. 103-104
4. Spasić Ž., Janjić A., **ENERGETSKA EFIKASNOST MALIH HIDROELEKTRANA**, predavanje po pozivu, 6. Savetovanje o obnovljivim izvorima energije "Male hidroelektrane – Energetska budućnost Srbije", Vlasotince, Srbija, 25. oktobar 2013

Autorizovana diskusija sa nacionalnog skupa (M65)

Uređivanje zbornika saopštenja skupa nacionalnog značaja (M66)

Odbranjena doktorska disertacija (M71)

1. Madić, M., **MATEMATIČKO MODELIRANJE I OPTIMIZACIJA PROCESA LASERSKOG SEČENJA PRIMENOM METODA VEŠTAČKE INTELIGENCIJE**, Doktorska disertacija, Mašinski fakultet Univerziteta u Nišu, Niš, 2013.
2. Vučković, G., **ISTRAŽIVANJE ENERGETSKE EFIKASNOSTI SLOŽENOG TERMOPROCESNOG POSTROJENJA PRIMENOM METODE EKSERGOEKONOMIJE**, Doktorska disertacija, Mašinski fakultet Univerziteta u Nišu, Niš, 2013.
3. Petković, D., **ISTRAŽIVANJE I RAZVOJ ADAPTIVNIH PASIVNIH GIPKIH SISTEMA SA INTEGRISANIM SENZORIMA I AKTUATORIMA**, Doktorska disertacija, Mašinski fakultet Univerziteta u Nišu, Niš, 2013.
4. Petrović, G., **VIŠEKRITERIJUMSKA OPTIMIZACIJA PROCESA ODRŽAVANJA TEHNIČKIH SISTEMA PRIMENOM VEROVATNOSNIH METODA I VEŠTAČKE INTELIGENCIJE**, Doktorska disertacija, Mašinski fakultet Univerziteta u Nišu, Niš, 2013.

Odbranjen magistarski rad (M72)

Novi proizvod ili tehnologija uvedeni u proizvodnju, priznat programski sistem, priznate nove genetske probe na međunarodnom nivou (uz dokaz), novo prihvaćeno rešenje problema u oblasti makroekonomskog, socijalnog i problema održivog prostornog razvoja recenzovano i prihvaćeno na međunarodnom nivou (M81)

Nova proizvodna linija, nov materijal, industrijski prototip, novo prihvaćeno rešenje problema u oblasti makroekonomskog, socijalnog i problema održivog prostornog razvoja uvedeni u proizvodnju (M82)

1. Arsić Miodrag, Miomir Jovanović, Goran Radoičić, Danijel Marković, Vojislav Tomić, **INDUSTRIJSKI UREĐAJ ZA KONTROLU KINEMATIKE RUDARSKIH IZVOZNIH MAŠINA**, tehničko rešenje, Projekat tehnološkog razvoja Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije TR-35049, Mašinski fakultet Niš, 2013.
2. Vlastimir Nikolić, Dragan Antić, Žarko Čojbašić, Zoran Jovanović, Ivan Ćirić, Saša Nikolić, Staniša Perić, Marko Milojković, **HIBRIDNO UPRAVLJANJE VETRO TURBINAMA NOVE GENERACIJE BAZIRANO NA FAZI LOGICI, GENETSKIM ALGORITMIMA I ORTOGONALNIM POLINOMIMA**, tehničko rešenje
3. Dragan Antić, Zoran Ičić, Zoran Jovanović, Vlastimir Nikolić, Žarko Čojbašić, Saša Nikolić, Staniša Perić, Miroslav Milovanović, Dejan Mitić, Ivan Ćirić, **TROFAZNI PRETVARAČ NAPONA**, Elektronski fakultet u Nišu, Odluka broj: 07/10-025/13-001, 21.03.2013.

Novo laboratorijsko postrojenje, novo eksperimentalno postrojenje, novi tehnološki postupak (uz dokaz) (M83)

1. Lazarević Dragoljub, **HIDRAULIČNI OBLIKUJUĆI TRN ZA ROTACIONO SUŽAVANJE**, Br.612-113-2-8/2013, 28. 01.2013. Mašinski fakultet

Bitno poboljšani postojeći proizvod ili tehnologija (uz dokaz), novo rešenje problema u oblasti mikroekonomskog, socijalnog i problema održivog prostornog razvoja recenzovano i prihvaćeno na nacionalnom nivou (M84)

1. Bogdanović Božidar, Spasić Živan, Milenković Dragica, Bogdanović-Jovanović Jasmina, **NISKOPRITISNI AKSIJALNI REVERZIBILNI VENTILATOR SA PRAVIM PROFILIMA LOPATICA**, razvijeno u okviru projekta tehnološkog razvoja, br. TR18012, rukovodilac prof. dr Božidar Bogdanović i doktorske disertacije Živana Spasića. Tehničko rešenje usvojeno od strane Mašinskog fakulteta u Nišu, januar 2013, br. odluke 612-113-2-12/2013.

Prototip, nova metoda, softver, standardizovan ili atestiran instrument, nova genska proba, mikroorganizmi (uz dokaz) (M85)

1. Janošević, D., Jovanović, V., Janković, P., Milić, P., Pavlović, J.: **METODA ZA EKSPERIMENTALNO ODREĐIVANJE OTPORA KOPANJA HIDRAULIČKIH BAGERA, TEHNIČKO REŠENJE**, Razvijeno: u okviru projekta tehnološkog razvoja Teorijsko-eksperimentalna istraživanja transportnih mašinskih sistema, evidencioni broj 035049, godina realizacije: 2013., primena: Mašinski fakultet Univerziteta u Nišu
2. Nikolić V., Čojbašić Ž., Čirić I., Tomić M., Petrović E., Milojević A., **INTELLIGENT CONTROL OF MOBILE ROBOTIC PLATFORM BASED ON A ROBOTIC VISION AND OBJECT RECOGNITION**, Technical Solution M85
3. Milošević, M., Pavlović, V., Tomić, M., Pavlović, M., Milojević, A., Đorđević, G., **NOVO REŠENJE MEHANIZMA ZA POZICIONIRANJE PLATFORMI KOD UREĐAJA ZA FILTRIRANJE KRVI**, Realizator Mašinski fakultet u Nišu, Korisnik Mašinski fakultet u Nišu, LMB Soft, Niš, http://www.masfak.ni.ac.rs/uploads/articles/www2_novo_resenje_mehanizma_za_pozicioniranje_platforni_kod_uredjaja_za_filtriranje_krvi.pdf, Niš, 2013

Kritička evaluacija podataka, baza podataka, prikazani detaljno kao deo međunarodnih projekata, publikovani kao interne publikacije ili prikazani na internetu (M86)

Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo na međunarodnom nivou (M91)

Realizovani patent, soj, sorta ili rasa, arhitektonsko, građevinsko ili urbanističko autorsko delo (M92)

Autorska izložba sa katalogom uz naučnu recenziju (M93)