

Curriculum Vitae

NADA DAMLJANOVIĆ

1. Name, Middle Name and Surname:
Nada, Života, Damljanović
2. Possition:
Associate Professor
3. Affiliation:
Faculty of Technical Sciences Čačak, University of Kragujevac, Serbia
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5. BSc:
2002 - Faculty of Mathematics, University of Belgrade, Belgrade, Serbia - Study Programme: Theoretical mathematics and applications - Diploma: Graduate mathematician
6. MSc:
2007 - Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia - Study Programme: Algebra and combinatorial mathematics - Title of MSc thesis: Idempotent semirings - Diploma: Master of mathematical sciences
7. PhD:
2012 - Faculty of Sciences and Mathematics, University of Niš, Niš, Serbia - Study Programme: Mathematics - Title of PhD thesis: Multivalued relations over lattices and semirings: Theory and applications - Diploma and Scientific Degree: Doctor of Philosophy of Mathematics
8. Knowledge of foreign languages:
English
9. Professional Experience:
2017-now, Associate Professor, Faculty of Technical Sciences in Čačak, University of Kragujevac 2012-2017, Assistant Professor, Faculty of Technical Sciences in Čačak, University of Kragujevac 2007-2012, Teaching Assistant, Technical Faculty in Čačak, University of Kragujevac 2003-2007, Junior Teaching Assistant, Technical Faculty in Čačak, University of Kragujevac
10. Current Courses:
<i>BSc studies:</i> Mathematics 1, Mathematics 2, Mathematics 3, Practicum in mathematics 3, Discrete mathematics, Quantitative methods <i>MSc studies:</i> Mathematical methods in management <i>PhD studies:</i> Mathematical modelling, Selected chapters of abstract algebra, Fuzzy sets and systems
11. Research Projects:
- Weighted pushdown automata with different acceptance modes (2019-now) Funded by: German Research Foundation (Deutsche Forschungsgemeinschaft DFG) - Development of Methods of Computation and Information Processing: Theory and Applications - 174013 (2011- now) Funded by: Ministry of Education, Science and Technological Development, Republic of Serbia - Weighted Automata over Semirings and Lattices - D/08/02092 (2009-2010) Funded by: Deutcher Akademischer Austauschdienst – DAAD, Ministry of Science and Technological Development, Republic of Serbia - Algebraic Structures and Information Processing Methods - 144011 (2006-2010) Funded by: Ministry of Science and Technological Development, Republic of Serbia
12. Teaching Projects:
Master programme in Applied Statistics-MAS 511140-TEMPUS-1-2010-RS-TEMPUS-JPCR

13. Editorial Activities:
• Mathematica Moravica (Co-Editor-in-Chief) • Kragujevac Journal of Mathematics (Associate Editor)
14. Conferences hosted:
• Analysis, Topology, Algebra: Theory and Application (ATA2016), July 6-9, 2016, Faculty of Technical Sciences Čačak, University of Kragujevac, Serbia
15. Program committee memberships:
• 14th Serbian Mathematical Congress (14SMAK), May 16-19, 2018, Faculty of Science, University of Kragujevac, Serbia
16. Publications (selected):
1. P. Petrović, N. Damjanović, Dynamic Phasors Estimation Based on Taylor-Fourier Expansion and Gram Matrix Representation, Mathematical Problems in Engineering, Volume 2018, Article ID 7613814, 17 pages (ISSN 1024-123x, IF 2018 1.179, DOI 10.1155/2018/7613814). 2. P. Petrović, N. Damjanović, New procedure for harmonics estimation based on Hilbert transformation, Electrical Engineering 99 (1) (2017) 313–323 (ISSN 0948-7921, eISSN 1432-0487, IF 2017=1.269, DOI 10.1007/s00202-016-0434-x). 3. B. Miljković, M. R. Žižović, A. Petojević, N. Damjanović, New weighted sum model, Filomat 31 (10) (2017), 2991–2998 (ISSN 0354-5180, eISSN 2406-0933, IF 2017=0.635, DOI 10.2298/FIL1710991M). 4. M. M. Žižović, N. Damjanović, M. R. Žižović, Multi-criteria decision making method for models with the dominant criterion, Filomat 31 (10) (2017), 2981–2989 (ISSN 0354-5180, eISSN 2406-0933, IF 2017=0.635, DOI 10.2298/FIL1710981Z). 5. N. Damjanović, D. Djurčić, M. Žižović, Exponent of convergence for double sequences and selection principles, Filomat 31 (9) (2017), 2821–2825 (ISSN 0354-5180, eISSN 2406-0933, IF 2017=0.635, DOI 10.2298/FIL1709821D). 6. M. M. Žižović, N. Damjanović, M. R. Žižović, Multiplicative multi-criteria analysis method for decision-making, Maejo International Journal of Science and Technology, 10 (02) (2016) 233-241 (ISSN 1905-7873, IF 2015=0.329). 7. N. Damjanović, M. Ćirić, J. Ignjatović, Bisimulations for weighted automata over an additively idempotent semiring, Theoretical computer science, 534 (2014) 86-100 (ISSN 0304-3975, DOI 10.1016/j.tcs.2014.02.032, IF 2014=0.657). 8. M. Ćirić, J. Ignjatović, I. Jančić, N. Damjanović, Computation of the greatest simulations and bisimulations between fuzzy automata, Fuzzy Sets and Systems, 208 (2012) 22-42 (ISSN 0165-0114, DOI 10.1016/j.fss.2012.05.006, IF 2013=1.880). 9. J. Ignjatović, M. Ćirić, N. Damjanović, I. Jančić, Weakly linear systems of fuzzy relation inequalities: The heterogeneous case, Fuzzy Sets and Systems, 199 (2012) 64-91 (ISSN 0165-0114, DOI 10.1016/j.fss.2011.11.011, IF 2013=1.880). 10. M. Ćirić, J. Ignjatović, N. Damjanović, M. Bašić, Bisimulations for fuzzy automata, Fuzzy Sets and Systems, 186 (2012) 100-139 (ISSN 0165-0114, DOI 10.1016/j.fss.2011.07.003, IF 2013=1.880). 11. V. Lazarević, M. Žižović, N. Damjanović, Root product of lattices, Filomat 26 (3) (2012) 615-621 (ISSN 0354-5180, eISSN 2406-0933, DOI 10.2298/FIL1203615L, IF 2012=0.714). 12. N. Damjanović, M. Ćirić, S. Bogdanović, Congruence openings of additive Green's relations on a semiring, Semigroup Forum 82 (3) (2011) 437-454 (ISSN 0037-1912, eISSN 1432-2137, DOI 10.1007/s00233-010-9255-9, IF 2011=0.730). 13. M. Žižović, N. Damjanović, V. Lazarević, N. Deretić, New method for multicriteria analysis, U.P.B. Sci. Bull. Series A 73 (2) (2011) 13-22 (ISSN 1223-7027, eISSN 2286-3672, IF 2012=0.300). 14. N. Damjanović, Weakly linear equations and inequalities for matrices over an additively idempotent semiring and applications, 14th Serbian Mathematical Congress, 14SMAK, May 16-19, 2018, organized by Faculty of Science, University of Kragujevac, Kragujevac, Serbia, p. 109 (ISBN 978-86-6009-055-5). 15. N. Damjanović, Solving weakly linear inequalities for matrices over max-plus semiring and applications to automata theory, The 94th Workshop on General Algebra in conjunction with the 5th Novi Sad Algebraic Conference AAA95+NSAC2017, June 15-18, 2017, Novi Sad, Serbia, pp. 25. 16. N. Damjanović, Additively idempotent semirings - relative residuation and applications, International Conference on Mathematics and Applications ICMA2017, April 26-28, 2017, New Delhi, India, organized by Ramjas College, University of Delhi, pp 29. 17. M. R. Žižović, N. Damjanović, K. Pavlović, M. Janjić, Modification of Fuller's triangle method for

November 18-19, 2016, Gabrovo, Bulgaria, organized by Technical University of Gabrovo, p. 166-170.

18. M. M. Žižović, N. Damljanović, M. R. Žižović, Approach to multi-criteria analysis in models with variable weighted coefficients, The 5th International Scientific Conference Analysis, Topology and Applications: Theory and Applications ATA2016, July 6-9, 2016, Čačak, Serbia, organized by Faculty of Technical Sciences in Čačak, University of Kragujevac, p. 54.
19. N. Damljanović, M. Ćirić, J. Ignjatović, Residuation in algebras of relations and matrices, XIII Serbian Mathematical Congress [13SMAK](#), May 22-25, 2014, Vrnjačka Banja, Serbia, organized by Faculty of Science and Mathematics, University of Niš in collaboration with Mathematical Society of Serbia, Belgrade, Faculty of Mathematics, University of Belgrade and Faculty of Science, University of Kragujevac, p. 8 (ISBN 978-86-6275-026-6).
20. N. Damljanović, M. Ćirić, J. Ignjatović, State reduction for weighted finite automata, International Workshop on Weighted Automata: Theory and Applications, [WATA 2014](#), May 5-9, 2014, organized by Leipzig University, Institute of Computer Science, Leipzig, Germany.
21. M. Žižović, N. Damljanović, O. Nikolić, N. Deretić, New MCD-method, International Scientific Conference UNITECH'13, November 22-23, 2013, Gabrovo, Bulgaria, organized by Technical University of Gabrovo, p. IV-109-112 (ISSN 1313-230X).
22. N. Damljanović, M. Ćirić, J. Ignjatović, Bisimulations for weighted automata, 6th International Workshop Weighted Automata: Theory and Applications [WATA2012](#), May 29 - June 2, 2012, Dresden, Germany, p. 44-45.
23. N. Damljanović, A. Petojević, M. Žižović, Comparative application of lattice MCD-method with PROMETHEE-metdod, The XIII international conference on mathematics and its applications [ICMA2012](#), November 1-3, 2012, Timisoara, Romania, organized by Department of Mathematics, "Politehnica" University of Timisoara, p. 205-210 (ISSN 1224-6069).
24. M. Žižović, N. Damljanović, Main advantage of lattice MCD-method, The XIII international conference on mathematics and its applications ICMA2012, November 1-3, 2012, Timisoara, Romania, organized by Department of Mathematics, "Politehnica" University of Timisoara, p. 315-320 (ISSN 1224-6069).
25. M. Ćirić, J. Ignjatović, N. Damljanović, Fuzzy relation equations and fuzzy automata, Eleventh international conference on fuzzy set theory and applications, [FSTA 2012](#), January 30 - February 3, 2012, Liptovsky Jan, Slovak Republic, p. 32 (ISBN 978-80-8040-438-3).
26. N. Damljanović, M. Ćirić, J. Ignjatović, Multivalued relations over lattices and semirings and their applications, 32nd Seminar on Fuzzy Set Theory, [LINZ 2011](#), February 1-5, 2011, Linz, Austria, p. 33-35.
27. J. Ignjatović, M. Ćirić, N. Damljanović, Weakly linear systems of fuzzy relation inequalities and equations, 32nd Seminar on Fuzzy Set Theory, [LINZ 2011](#), February 1-5, 2011, Linz, Austria, p. 84-86.
28. N. Damljanović, M. Ćirić, J. Ignjatović, Fuzzy automata: equivalence and bisimulation, International Workshop on Weighted Automata: Theory and Applications, [WATA 2010](#), May 3-7, 2010, Leipzig, Germany, p. 34-35.
29. N. Damljanović, M. Ćirić, J. Ignjatović, Fuzzy and weighted automata: Bisimulation and structural equivalence, The 3rd Novi Sad Algebraic Conference [NSAC09](#), August 17-21, 2009, Novi Sad, Serbia, p. 27-29.
30. M. Ćirić, S. Bogdanović, N. Damljanović, Subdirect decompositions of idempotent semirings, The 12th Serbian Mathematical Congress, August 28- September 2, 2008, Novi Sad, Serbia, organized by Department of Mathematics and Informatics, Faculty of Science, University of Novi Sad, p. 13.