



MIROSLAV ĆIRIĆ

PROFESSOR OF MATHEMATICS AND COMPUTER SCIENCE

UNIVERSITY OF NIŠ

FACULTY OF SCIENCES AND MATHEMATICS

DEPARTMENT OF COMPUTER SCIENCE

NIŠ, SERBIA

February 14, 2025.

CURRICULUM VITAE

1. BASIC INFORMATION

1.1. PERSONAL AND CONTACT INFORMATION

Date and place of birth:

July 17, 1964, Bela Palanka, Serbia

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ResearcherID: T-9959-2018

Scopus Author ID: 6603791377

1.2. EDUCATION AND DEGREES

1991 Ph.D. in Mathematics (University of Belgrade, Faculty of Mathematics, Belgrade, Serbia)

Ph.D. thesis: Decompositions of Semigroups and Identities (in Serbian)

Thesis supervisor: Stojan Bogdanović

1990 Magister's degree in Mathematics (University of Novi Sad, Faculty of Science, Novi Sad, Serbia)

Magister's thesis: Semilattices of Archimedean Semigroups (in Serbian)

Thesis supervisor: Stojan Bogdanović

1988 BSc in Mathematics (University of Niš, Faculty of Philosophy, Niš, Serbia)

1.3. PRESENT EMPLOYMENT

Since 08.05.2000

Full Professor • University of Niš, Faculty of Sciences and Mathematics,
Departments of Mathematics and Computer Science • Niš, Serbia

1.4. PREVIOUS EMPLOYMENTS

11.05.1995 – 07.05.2000 Associate Professor • University of Niš, Faculty of Philosophy,
Department of Mathematics • Niš, Serbia

22.04.1992 – 10.05.1995 Assistant Professor • University of Niš, Faculty of Philosophy,
Department of Mathematics • Niš, Serbia

01.10.1990 – 21.04.1992 Teaching Assistant • University of Niš, Faculty of Philosophy,
Department of Mathematics • Niš, Serbia

01.10.1988 – 30.09.1990 Junior Teaching Assistant • University of Niš, Faculty of Mechanical
Engineering, Department of Mathematics • Niš, Serbia

1.5. LANGUAGE SKILLS

Serbian (native), English (fluent), French (speaking capability), Russian (reading capability of literature in the field of expertise).

2. RESEARCH AND SCIENTIFIC ACTIVITIES

2.1. EXPERIENCE IN RESEARCH

More than thirty years of experience in scientific research in diverse fields of *mathematics* and *computer science*, which span multiple branches of *algebra*, *mathematical logic*, *linear algebra*, *automata and formal languages*, *data analysis*, and others.

Former research interests:

- *algebraic theory of semigroups* (decomposition and composition of semigroups, semigroup identities, varieties, regularity conditions, ideal theory, etc.)
- *theory of rings* (extensions of rings, multiplicative semigroups of rings, etc.)
- *universal algebra* (varieties, congruence lattices, subdirect products, direct and inverse limits, unary algebras, etc.)
- *ordered sets and lattices* (ideal theory, direct products, Boolean algebras, etc.)
- *algebraic theory of automata and formal languages* (deterministic automata, varieties of automata, transition semigroups, direct sum decompositions, directable automata, etc.)

Current and recent research interests:

- *fuzzy set theory* (fuzzy relations, fuzzy relation equations, and inequalities, etc.)
- *algebraic theory of automata and formal languages* (fuzzy automata and languages, weighted automata, formal power series, nondeterministic automata, quantitative automata, etc.)
- *data analysis* (social network analysis, formal concept analysis, etc.)
- *ordered algebraic structures* (residuated functions, inequalities, and equations defined by residuated functions, residuated algebraic structures, etc.)
- *generalized inverses* (generalized inverses in semigroups, generalized inverses of complex matrices, generalized inverses of fuzzy matrices, generalized inverses of tensors, etc.)
- *linear algebra and matrix theory* (solving matrix equations, solving systems of matrix equations, matrix factorizations, etc.)

2.2. PUBLICATIONS

- 188 publications, including 4 research monographs, 3 text-books, 4 edited books and special journal issues, and 173 peer-reviewed research articles published in scientific journals, conference proceedings, and book chapters
- most of the recent articles have been published in the highest-ranked international scientific journals: *Fuzzy Sets and Systems*, *Information Sciences*, *IEEE Transactions on Fuzzy Systems*, *Complexity*, *Knowledge-Based Systems*, *Journal of Computer and System Sciences*, *Theoretical Computer Science*, *Applied Mathematics and Computation*, *Linear and Multilinear Algebra*, and others
- they have also been cited mostly in the top-ranked journals
- Citations: *Google Scholar*: 3077, *Scopus*: 1340, *Web of Science*: 1352
- H-index: *Google Scholar*: 31, *Scopus*: 23, *Web of Science*: 22

The complete list of publications is given in **Appendix 1**.

2.3. MANAGEMENT AND PARTICIPATION IN RESEARCH PROJECTS

Management of research projects (research grants received as the Principal Investigator)

- | | |
|-----------|---|
| 2022–2024 | <i>Quantitative Automata Models: Fundamental Problems and Applications – QUAM - 7750185</i>
Value: EUR 271,875.60; 14 researchers from University of Niš (12) and University of Kragujevac (2);
Funder: <i>Science Fund of the Republic of Serbia</i>
Holder: <i>University of Niš, Faculty of Sciences and Mathematics</i> |
| 2011–2019 | <i>Development of methods of computation and information processing: theory and applications – 174013</i>
Value: EUR 979.833; 39 researchers from Serbia (36), Germany (2) and United States (1);
Funder: <i>Ministry of Education, Science, and Technological Development, Republic of Serbia</i>
Holder: <i>University of Niš, Faculty of Sciences and Mathematics</i> |

- 2006–2010 *Algebraic Structures and Information Processing Methods – 144011*
 Value: EUR 720.180; 30 researchers from universities of Niš (19), Novi Sad (9), Belgrade (1) and Kragujevac (1);
 Funder: *Ministry of Science and Technological Development, Republic of Serbia*
 Holder: *University of Niš, Faculty of Sciences and Mathematics*
- 2002–2005 *Algebraic and Combinatorial Methods in Information and Communication Technologies – 101227*
 Value: EUR 304.483; 25 researchers from Universities of Niš (13) and Novi Sad (12);
 Funder: *Ministry of Science and Technological Development, Republic of Serbia*
 Holder: *University of Niš, Faculty of Sciences and Mathematics*

Participation in research projects

- 2019–2021 *Weighted pushdown automata with different acceptance modes*
 Aufbau internationaler Kooperationen mit Serbien
 Funders: *DFG - German Research Foundation*
 Participating institutions: *University of Leipzig, University of Niš, University of Kragujevac*
 Project manager: *Manfred Droste (Leipzig)*
- 2009–2010 *Weighted Automata over Semirings and Lattices - D/08/02092*
 Bilateral German-Serbian project
 Funders: *Deutscher Akademischer Austauschdienst – DAAD, Ministry of Education, Science, and Technological Development, Republic of Serbia*
 Participating institutions: *University of Novi Sad, University of Niš, University of Leipzig, Technical University of Dresden*
 Project managers: *Andreja Tapavčević (Novi Sad), Heiko Vogler (Dresden)*
- 1996–2000 *Methods and Models in Theoretical, Applied, and Industrial Mathematics: Algebra*
 (Head of the research topic *Universal Algebra* and manager of the group of 20 researchers from the Faculty of Philosophy, University of Niš)
 Funder: *Ministry of Science and Technological Development, Republic of Serbia*
 Holder: *Mathematical Institute of the Serbian Academy of Science and Arts, Belgrade*
 Project manager: *Stojan Bogdanović (University of Niš)*
- 1991–1995 *Contemporary Problems of Mathematics: 0401B Algebra and Discrete Mathematics*
 (Head of the research topic *Semigroups and Identities*)
 Funder: *Ministry of Science and Technological Development, Republic of Serbia*
 Holder: *Mathematical Institute of the Serbian Academy of Science and Arts, Belgrade*
 Project manager: *Stojan Bogdanović (University of Niš)*
- 1989–1990 *Mathematics and Applications*
 Funder: *Ministry of Science and Technological Development, Republic of Serbia*
 Holder: *Mathematical Institute of the Serbian Academy of Science and Arts, Belgrade*

2.4. EXPERT ASSIGNMENTS**Evaluation of project applications**

- 2005, 2010 Evaluation of 3 project applications submitted for funding by the Ministry of Education, Science and Technological Development (MESTD), Republic of Serbia
- 2007, 2008, 2014, 2022, 2023 Evaluation of 3 project applications submitted for funding under the programs of bilateral scientific cooperation of Serbia with Germany, Slovakia, China, Slovenia and Austria.
- 2007–2010 Participation in the evaluation of the realization of projects in mathematics funded by MESTD (as a member of the National Experts Board for Mathematics and Mechanics)

Acting as a reviewer for scientific journals

- FUZZY SETS AND SYSTEMS (Elsevier)
- INFORMATION SCIENCES (Elsevier)
- IEEE TRANSACTIONS ON FUZZY SYSTEMS (IEEE Computational Intelligence Society)

- INTERNATIONAL JOURNAL OF APPROXIMATE REASONING (Elsevier)
- KNOWLEDGE-BASED SYSTEMS (Elsevier)
- THEORETICAL COMPUTER SCIENCE (Elsevier)
- MATHEMATICAL STRUCTURES IN COMPUTER SCIENCE (Cambridge University Press)
- SOFT COMPUTING (Springer)
- COMPUTERS AND MATHEMATICS WITH APPLICATIONS (Elsevier)
- INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS (Taylor & Francis)
- JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING (Old City Publishing)
- NEW MATHEMATICS AND NATURAL COMPUTATION (World Scientific)
- SEMIGROUP FORUM (Springer)
- ALGEBRA COLLOQUIUM (World Scientific)
- INDIAN JOURNAL OF PURE AND APPLIED MATHEMATICS (Springer)
- IRANIAN JOURNAL OF FUZZY SYSTEMS (University of Sistan and Baluchestan, Iran)
- PUBLICATIONES MATHEMATICAE DEBRECEN (University of Debrecen, Institute of Mathematics, Hungary)
- PUBLICATIONS DE L'INSTITUT MATHÉMATIQUE (BEOGRAD) (Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia)
- FACTA UNIVERSITATIS, SERIES MATHEMATICS AND INFORMATICS (University of Niš, Serbia)
- FILOMAT (University of Niš, Faculty of Sciences and Mathematics, Serbia)
- NOVI SAD JOURNAL OF MATHEMATICS (University of Novi Sad, Faculty of Science, Department of Mathematics and Informatics, Serbia)
- KRAGUJEVAC JOURNAL OF MATHEMATICS (University of Kragujevac, Faculty of Science, Serbia)

2.5. SCIENTIFIC CONFERENCES

Organization of scientific conferences

- 8th International Conference on Algebraic Informatics – CAI 2019, Niš, Serbia, 2019 •
Co-chair of the Program Committee
- International Conference on Algebra, Logic and Discrete Mathematics, Niš, Yugoslavia, 1995 •
Co-chair of the Program Committee

Membership in program committees of scientific conferences

- 16th International Conference on Automata and Formal Languages – AFL2023, Eger, Hungary, 2023.
- 9th International Conference on Mathematics and Computing – ICMC 2023, Goa, India, 2023.
- 9th International Conference on Algebraic Informatics – CAI 2022, Thessaloniki, Greece, 2022.
- 14th European Symposium on Computational Intelligence and Mathematics – ESCIM 2022, Naples, Italy, 2022.
- 2nd Congress of Young Mathematicians of Serbia, Novi Sad, Serbia, 2022.
- 13th European Symposium on Computational Intelligence and Mathematics – ESCIM 2021, Budapest, Hungary, 2021.
- 12th (1st virtual) European Symposium on Computational Intelligence and Mathematics – ESCIM 2020.
- 24th International Conference on Developments in Language Theory – DLT 2020, Tampa, FL, United States, 2020
- Congress of Young Mathematicians of Serbia, Novi Sad, Serbia, 2019.
- 7th Conference on Information Theory and Complex Systems – TINKOS 2019, Belgrade, Serbia, 2019
- Second International Conference on Fuzzy Management Methods – ICFMsquare 2019, Fribourg, Switzerland, 2019
- 11th European Symposium on Computational Intelligence and Mathematics – ESCIM 2019, Toledo, Spain, 2019
- 6th Conference on Information Theory and Complex Systems – TINKOS 2018, Belgrade, Serbia, 2018
- 14th Serbian Mathematical Congress, Kragujevac, Serbia, 2018
- 10th European Symposium on Computational Intelligence and Mathematics – ESCIM 2018, Riga, Latvia, 2018
- 5th Conference on Information Theory and Complex Systems – TINKOS 2017, Belgrade, Serbia, 2017
- 9th European Symposium on Computational Intelligence and Mathematics – ESCIM 2017, Faro, Portugal, 2017

- Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems – IFSA-SCIS 2017, Otsu, Japan, 2017
- 4th Conference on Information Theory and Complex Systems – TINKOS 2016, Belgrade, Serbia, 2016
- 5th International Scientific Conference Analysis, Topology, Algebra: Theory and Applications – ATA 2016, Čačak, Serbia, 2016
- 8th European Symposium on Computational Intelligence and Mathematics – ESCIM 2016, Sofia, Bulgaria, 2016
- 16th World Congress of the International Fuzzy Systems Association & 9th Conference of the European Society for Fuzzy Logic and Technology – IFSA-EUSFLAT-2015, Gijón, Asturias, Spain, 2015
- Fuzzy algebraic and relational structures – theory and applications, Special Session of 2012 IEEE International Conference on Fuzzy Systems – FUZZ-IEEE 2012, Brisbane, Australia, 2012
- NSAC 05 – 2nd Novi Sad Algebraic Conference, Novi Sad, Serbia and Montenegro, 2005
- NSAC 03 – 1st Novi Sad Algebraic Conference, Novi Sad, Serbia and Montenegro, 2003
- ICM 2002 Satellite Conference in Algebra and Related Topics, Hong Kong, China, 2002
- VIVE MATH - Workshop on Visualization and Verbalization of Mathematics and Interdisciplinary Aspects, Niš, Yugoslavia, 2001
- Seminar in Algebra and Logic in honor of 65th birthday of Prof. S. Milic, Novi Sad, Yugoslavia, 1999
- 8th Conference Algebra and Logic, Novi Sad, Yugoslavia, 1998

Held 188 talks at 98 conferences held in Serbia (35), Hungary (11), Germany (11), Austria (5), China (4), Macedonia (4), Montenegro (4), Greece (3), Bulgaria (3), Portugal (3), Japan (2), Bosnia and Herzegovina (2), United Kingdom, France, Czech Republik, Slovakia, Slovenia, Spain, Finland, Ukraine, India, and Indonesia.

Among them, 16 were keynote/invited lectures.

The list of all conference talks is given in **Appendix 2**.

2.6. MEMBERSHIP IN EDITORIAL BOARDS OF SCIENTIFIC JOURNALS

Membership in editorial boards of international and national scientific journals

1994–present	FACTA UNIVERSITATIS, SERIES MATHEMATICS AND INFORMATICS • University of Niš • ISSN: 0352-9665 (print), 2406-047X (online) • Editor-in-Chief (2009–2011), Member of the Editorial Board (1994–2008, 2012–present)
2008–present	FILOMAT • University of Niš, Faculty of Sciences and Mathematics • ISSN: 0354-5180 (print), 2406-0933 (online) • Area editor for Algebra and Fuzzy Mathematics
2009–present	SCIENTIFIC PUBLICATIONS OF THE STATE UNIVERSITY OF NOVI PAZAR, Series A: Applied Mathematics, Informatics & Mechanics • State University of Novi Pazar • ISSN: 2217-5539 (print), 2466-3778 (online) • Member of the Editorial Board
2011–2014	PUBLISHING UNIT OF THE UNIVERSITY OF NIŠ and THE SCIENTIFIC JOURNAL FACTA UNIVERSITATIS (15 series) • University of Niš • Editor-in-Chief
2011–present	FUZZY SETS AND SYSTEMS • Elsevier • ISSN: 0165-0114 • Member of the Editorial Board
2013–2014	SCIENTIFIC WORLD JOURNAL • Hindawi • ISSN: 2356-6140 (print), 1537-744X (online) • Member of the Editorial Board for the subject area Algebra
2014–present	KRAGUJEVAC JOURNAL OF MATHEMATICS • University of Kragujevac • ISSN: 1450-9628 (print), 2406-3045 (online) • Member of the Editorial Board
2014–present	ZENTRALBLATT MATH and MATHEMATICS EDUCATION • European Mathematical Society • Member of the Local Editorial Board in Belgrade
2016–present	APPLIED MATHEMATICS AND COMPUTER SCIENCE • University of Niš, Faculty of Sciences and Mathematics • Editor-in-chief

2019–present PUBLICATIONS DE L'INSTITUT MATHÉMATIQUE • Mathematical Institute of the Serbian Academy of Sciences and Arts •
Associate Editor

2.7. OTHER SCIENTIFIC ACTIVITIES

Research visits and visiting professorships

1997 University of Szeged • Hungary • Department of Computer Science (1 month)
1998 University of Potsdam • Germany • Department of Mathematics (1 month)
2002 Chinese University of Hong Kong • China • Department of Mathematics (1 month)
2018 University of Leipzig • Germany • Faculty of Mathematics and Computer Science (1 month)
2019 University of Leipzig • Germany • Faculty of Mathematics and Computer Science (1 month)

3. TEACHING AND SUPERVISION

3.1. EXPERIENCE IN TEACHING

Bachelor's and master's degree courses (programs in Mathematics and Computer Science)

1992–1993 Computability Theory
1992–1994 Methods of Teaching Mathematics
1992–1994 History of Mathematics
1992–1997 Philosophy of Mathematics
1994–2000 Semigroup Theory
1994–2007 Automata and Formal Languages
1995–1996 Lattice Theory
1995–1996 Boolean Algebras
1996–1997 Graph Theory
1998–2000 Discrete Mathematics
1998–2002 Information Technologies (study program in Mathematics)
1998–2007 Philosophy and History of Mathematics
1998–2014 Mathematical Logic and Set Theory
2000–2002 Algebra 1
2000–2006 Information Technologies (study programs in Biology and Geography)
2002–2007 Cryptography
2008–2019 History and Philosophy of Mathematics (Mathematics, BSc)
2008–2019 Discrete Structures 1 (Computer Science, BSc)
2008–2019 Mathematical Logic (Mathematics, MSc)
2020–2021 Calculus (Computer Science, BSc)
2020–2022 Linear Algebra (Computer Science, BSc)
2020–2022 Data Structures and Algorithms (Intelligent Data Analysis, MSc)
since 2008 Design and Analysis of Algorithms (Computer Science, BSc)
since 2021 Mathematics 1 (Computer Science, BSc)
since 2021 Mathematics 2 (Computer Science, BSc)
since 2021 Probabilistic Automata (Machine Learning and Artificial Intelligence, MSc)

Bachelor's and master's degree courses (study programs in other areas)

1995–2011 Information Technologies (for students of the Faculty of Pedagogy, University of Niš)
2007–2011 Educational Technology (for students of the Faculty of Pedagogy, University of Niš)
1998–2008 Information Technologies (for students of Psychology and History at the Faculty of Philosophy, University of Niš)
2005–2007 Discrete Structures (for students of the Faculty of Information Technologies, University Metropolitan, Belgrade, Serbia)

2019–2023	Mathematics (for students of the Faculty of Pedagogy, University of Niš)
2019–2023	Elementary Mathematical Concepts (for students of the Faculty of Pedagogy, University of Niš)
2019–2023	Mathematical Logic (for students of the Faculty of Pedagogy, University of Niš)
since 2024	Mathematics 2 (for students of the Faculty of Technical Sciences in Čačak, University of Kragujevac)

Magister's degree courses (study program in Mathematics)

1994–2007	General Algebra (study module for Algebra and Combinatorial Mathematics)
1994–2007	Universal Algebra (Algebra and Combinatorial Mathematics)
1994–2007	Algebraic Structures (Algebra and Combinatorial Mathematics)
1994–2007	Lattices and Boolean Algebras (Algebra and Combinatorial Mathematics)
1994–2007	Ordered Algebraic Structures (Algebra and Combinatorial Mathematics)
1994–2007	Theory of Rings (Algebra and Combinatorial Mathematics)
1994–2007	Theory of Semigroups (Algebra and Combinatorial Mathematics)
1994–2007	Graph Theory (Algebra and Combinatorial Mathematics)
1994–2007	Mathematical Linguistics (study module for Computer Science)
1994–2007	Computability Theory (Computer Science)
1994–2007	Formal Languages and Automata (study modules for Algebra and Combinatorial Mathematics and Computer Science)

Doctoral degree courses

since 2008	Methodology of Scientific Research (for students of Mathematics and Computer Science)
since 2008	Theory of Semigroups and Semirings (Mathematics, Computer Science)
since 2008	Algebraic Theory of Automata and Formal Languages (Computer Science)
2008–2013	Formal languages, automata, and computability (Computer Science, Mathematics)
2008–2013	Natural Computing (Computer Science)
2008–2013	Quantum Informatics and Quantum Computing (Computer Science)
2008–2013	Fuzzy Sets and Systems (Mathematics, Computer Science)
since 2014	Quantum Algebraic Structures (Mathematics)
since 2014	Linear Algebra over Semirings (Mathematics)
since 2016	General Algebra (Doctoral School of Mathematics)
since 2016	Semigroup Theory (Doctoral School of Mathematics)
since 2016	Theory of Semirings (Doctoral School of Mathematics)

3.2. EXPERIENCE IN SUPERVISION**Supervising diploma and master's theses**

1. Tatjana Petković, Semilattice decompositions of semigroups (in Serbian), Diploma thesis, University of Niš, Faculty of Philosophy, Department of Mathematics, 1993.
2. Rade Stanojević, Symbolic dynamics (in Serbian), Diploma thesis, University of Niš, Faculty of Sciences and Mathematics, Department of Mathematics, 2003.
3. Marko Miladinović, Public-key cryptography (in Serbian), Diploma thesis, University of Niš, Faculty of Sciences and Mathematics, Department of Mathematics, 2005.
4. Marjan Milanović, Fuzzy logic and fuzzy sets (in Serbian), Diploma thesis, University of Niš, Faculty of Sciences and Mathematics, Department of Mathematics, 2007.
5. Nenad Totić, String matching algorithms (in Serbian), Diploma thesis, University of Niš, Faculty of Sciences and Mathematics, Department of Mathematics, 2007.
6. Ivana Jančić, Fuzzy equivalences and their applications (in Serbian), Diploma thesis, University of Niš, Faculty of Sciences and Mathematics, Department of Mathematics, 2008.
7. Zorana Jančić, Fuzzy automata and languages (in Serbian), Diploma thesis, University of Niš, Faculty of Sciences and Mathematics, Department of Mathematics, 2008.
8. Nemanja Vučković, Algorithms for determinization and minimization of nondeterministic automata (in Serbian), Master's thesis, University of Niš, Faculty of Sciences and Mathematics, Department of Computer Science, 2016.

Supervising master's theses

1. Tatjana Petković, Semigroup identities, and automata (in Serbian), Magister's thesis, University of Niš, Faculty of Philosophy, Department of Mathematics, 1996.
2. Žarko Popović, Subdirect decompositions of algebras (in Serbian), Magister's thesis, University of Niš, Faculty of Philosophy, Department of Mathematics, 1998.
3. Jelena Kovačević, Decompositions of ordered sets, semigroups and automata (in Serbian), Magister's thesis, University of Niš, Faculty of Sciences and Mathematics, 2000.
4. Milena Bogdanović, Directable automata, their generalizations and specializations (in Serbian), Magister's thesis, University of Niš, Faculty of Sciences and Mathematics, 2001.
5. Aleksandar Stamenković, Minimality conditions in semigroups and formal languages (in Serbian), Magister's thesis, University of Niš, Faculty of Sciences and Mathematics, 2004.
6. Nina Petković, Pseudovarieties of algebras, semigroups and automata (in Serbian), Magister's thesis, University of Niš, Faculty of Sciences and Mathematics, 2004 (co-supervisor: Snežana Ilić)
7. Nada Damljanović, Idempotent semirings (in Serbian), Magister's thesis, University of Niš, Faculty of Sciences and Mathematics, 2007.

Supervising doctoral dissertations

1. Tatjana Petković, Varieties of automata and semigroups (in Serbian), Doctoral dissertation, University of Niš, Faculty of Philosophy, 1998. [Mathematics]
2. Žarko Popović, Congruences and decompositions of semigroups and automata (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2001. [Mathematics]
3. Jelena Ignjatović, Fuzzy relations, automata and languages (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2007. [Computer Science]
4. Aleksandar Stamenković, Fuzzy automata and fuzzy regular expressions (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2010. [Computer Science]
5. Milan Bašić, Certain graph-theoretical problems on quantum networks and nondeterministic automata (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2010. [Computer Science] (co-supervisor: Dragan Stevanović)
6. Nada Damljanović, Multivalued relations over lattices and semirings: theory and applications (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2012. [Mathematics]
7. Vesna Veličković, Visualization in mathematics using the object-oriented software package for line graphics (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2012. [Computer Science] (Co-supervisor: Eberhard Malkowsky)
8. Velimir Ilić, Algorithms for computing cross-moments of probabilistic context-free grammars and probabilistic graphical models (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2012. [Computer Science]
9. Ivan Stanković, Fuzzy relation equations and inequalities and their application in data analysis, (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2017. [Computer Science]
10. Stefan Stanimirović, Improved algorithms for determinization of fuzzy and weighted automata (in Serbian), Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, 2019 [Computer Science]
11. Marko Stanković, Bisimulations for Kripke models of fuzzy multimodal logics, Doctoral dissertation, University of Niš, Faculty of Sciences and Mathematics, Ph.D. School in Mathematics, 2023 [Mathematics].

Awards won by doctoral students

- 1998 Conference of Ph.D. Students in Computer Science • Szeged • Hungary
Tatjana Petković: Best Talk Award and the Medail of the John von Neumann Computer Society
- 2000 Conference of Ph.D. Students in Computer Science • Szeged • Hungary
Jelena Kovačević: Second Prize
Žarko Popović: Third Prize
- 2020 Mathematical Institute of the Serbian Academy of Sciences and Arts • Belgrade • Serbia
Stefan Stanimirović: Award for the best doctoral dissertation defended in Serbia in 2019, in the area of Computer Science

Organization of scientific seminars

- 1996–2002 *Seminar for Algebra*
Heads: Stojan Bogdanović, Miroslav Ćirić
- 2002–2005 *Seminar for Algebra, Combinatorics and Computer Science*
Heads: Miroslav Ćirić, Stojan Bogdanović
-

2006–2021 *Seminar for Algebra and Theoretical Computer Science*

Head: Miroslav Ćirić

since 2021 *QUAM Seminar*

Head: Miroslav Ćirić

Lecturers at the seminars were members of the local research group, as well as eminent university professors from Niš, Belgrade, Novi Sad and Kragujevac (Serbia), Novosibirsk and St Petersburg (Russia), Kharkiv (Ukraine), Tucson, Arizona, Dover, Delaver, Austin, Texas (United States), Leipzig, Dresden and Hamburg (Germany), Turku (Finland), Szeged (Hungary), Sofia (Bulgaria), Puebla (Mexico), Oviedo (Spain), Ostrava (Czech Republic), and Skopje (Macedonia).

3.3. ASSESSMENT OF DOCTORAL DISSERTATIONS

Membership in commissions for assessment and defense of doctoral dissertations

1. Milan Božinović, Some relations on semigroups and Abel-Grassmann's groupoids (in Serbian), Ph.D. thesis, University of Niš, Faculty of Philosophy, 1997. [Mathematics] (Supervisor: Petar Protić)
2. Igor Dolinka, On identities of algebras of regular languages (in Serbian), Ph.D. thesis, University of Novi Sad, Faculty of Science, 2000. [Mathematics] (Supervisor: Siniša Crvenković)
3. Dragan Stevanović, Some compositions of graphs and integral graphs (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2000. [Mathematics] (Supervisor: Dragoš Cvetković)
4. Melanija Mitrović, Regular subsets and semilattice decompositions of semigroups (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2000. [Mathematics] (Supervisor: Stojan Bogdanović)
5. Milan Tasić, Computation of generalized inverses (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2003. [Mathematics] (Supervisor: Predrag Stanimirović)
6. Predrag Krtolica, Application of inverse Polish notation and interpolation in symbolic computation (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2004. [Mathematics] (Supervisor: Predrag Stanimirović)
7. Ljiljana Radović, Derivation of Mackay groups from 230 space symmetry groups (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2004. [Mathematics] (Supervisor: Slavik Jablan)
8. Dušan Milošević, Iterative methods for simultaneous inclusion of polynomial zeros (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2005. [Mathematics] (Supervisor: Miodrag Petković)
9. Nebojša Stevanović, Groupoids satisfying the Abel-Grassmann's law (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2006. [Mathematics] (Supervisor: Petar Protić)
10. Marko Petković, Symbolic computation of Hankel determinants and matrix generalized inverses (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2008. [Computer Science] (Supervisor: Predrag Stanimirović)
11. Petar Đapić, Varieties of groupoids (in Serbian), Ph.D. thesis, University of Novi Sad, Faculty of Science, 2008. [Mathematics] (Supervisor: Petar Marković)
12. Marko Miladinović, Algorithms for computations on structured matrices and applications (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2011. [Computer Science] (Supervisor: Predrag Stanimirović)
13. Svetozar Rančić, Visualization of infinitesimal bending of curves and surfaces (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2011. [Computer Science] (Supervisor: Ljubica Velimirović)
14. Branka Budimirović, Lattice-valued identities and some classes of lattice-valued subalgebras (in Serbian), Ph.D. thesis, University of Novi Sad, Faculty of Science, 2011. [Mathematics] (Supervisor: Andreja Tepavčević)
15. Vanja Stepanović, The problem of representation of weak congruence lattices (in Serbian), Ph.D. thesis, University of Novi Sad, Faculty of Science, 2012. [Mathematics] (Supervisor: Andreja Tepavčević)
16. Selver Pepić, Matrix computations in PHP/MySQL environment (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2012. [Computer Science] (Supervisor: Milan Tasić)
17. Zorana Jančić, Algorithms for Determinization of Weighted and Fuzzy Automata, Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2014. [Computer Science] (Supervisor: Jelena Ignjatović)
18. Ivana Micić, Bisimulations for Fuzzy Automata, Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2014. [Computer Science] (Supervisor: Jelena Ignjatović)
19. Dejan Mančev, Training structured classifiers for different loss functions with the application to Sequence Labeling Problems, Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2015. [Computer Science] (Supervisor: Branimir Todorović)

20. Ivona Brajević, Improvements of some population-based metaheuristics for constrained optimization problems (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2015. [Computer Science] (Supervisor: Jelena Ignjatović)
21. Elijah Eghosa Edeghagba, Ω -algebraic systems, Ph.D. thesis, University of Novi Sad, Faculty of Science, 2017. [Mathematics] (Supervisor: Branimir Šešelja)
22. Ana Slivkova, Partial closure operators and applications in the theory of ordered sets (in Serbian), Ph.D. thesis, University of Novi Sad, Faculty of Science, 2017. [Mathematics] (Supervisor: Branimir Šešelja)
23. Omalkhear Salem Almabruk Bleblou, Ω -Boolean algebras, Ph.D. thesis, University of Novi Sad, Faculty of Science, 2017. [Mathematics] (Supervisor: Andreja Tepavčević)
24. Aleksandar Trokicić, Algorithms for fast approximate spectral learning (in Serbian), Ph.D. thesis, University of Niš, Faculty of Sciences and Mathematics, 2021. [Computer Science] (Supervisor: Branimir Todorović)
25. Mihailo Jovanović, Optimization of mathematical models for security logistics and efficient decision-making in collaborative web services of the electronic government of the Republic of Serbia, Ph. D. Thesis, University of Criminal Investigation and Police Studies, Belgrade, 2022. (Supervisor: Vladica Stojanović)

3.4. DEVELOPMENT OF TEACHING MATERIAL

Published 2 textbooks and one book of problems, as well as 4 monographs which were also used for teaching at doctoral studies. A lot of PDF or PowerPoint slides are used in lessons.

3.5. USE OF INFORMATION AND EDUCATIONAL TECHNOLOGIES

Excellent knowledge of LaTeX and many of its packages, HTML, PDF and PDF manipulating software, Microsoft Word, Excel and PowerPoint, and basic knowledge of programming, image processing, and desktop publishing software, Skype, Moodle, and other software.

3.6. DEVELOPMENT PROJECTS RELATED TO TEACHING

ERASMUS + KA2 CBHE projects

- | | |
|-----------|---|
| 2018–2022 | 598434-EPP-1-2018-1-RS-EPPKA2-CBHE-JP: Strengthening Teaching Competencies in Higher Education in Natural and Mathematical – TeComp (Member of the Central Management Team) |
| 2019–2022 | Erasmus + Programme KA1 – Mobility for learners and staf, University of Leipzig, Germany – Prof. dr Manfred Droste, University of Niš, Serbia – Prof. dr Miroslav Ćirić |

TEMPUS projects

- | | |
|-----------|--|
| 2002–2005 | TEMPUS, CD JEP-16160-2001: Innovation of Computer Science Curriculum in Higher Education (Project coordinator for University of Niš, Faculty of Sciences and Mathematics) |
| 2006–2009 | TEMPUS, CD JEP-40053-2005: Science Teacher Education Revision and Upgrading – STERU (Project coordinator for University of Niš, Faculty of Sciences and Mathematics) |
| 2007–2008 | TEMPUS, SM_SCM-C024B06-2006 (RS): Network education at Faculties of Science in Serbia – NEFS (Project coordinator for University of Niš, Faculty of Sciences and Mathematics) |
| 2007–2009 | TEMPUS, CD JEP-41110-2006: Teacher Education - Innovation of Studies in Mathematics and IT – TEMIT |
| 2010–2013 | TEMPUS, 511140-TEMPUS-1-2010-1-RS-TEMPUS-JPCR: Master programme in Applied Statistics – MAS (Project coordinator for University of Niš) |
| 2013–2016 | TEMPUS, 544093-TEMPUS-1-20131-RS-TEMPUS-SMGR: Restructuring of Doctoral Studies in Serbia – RODOS |
| 2013–2016 | TEMPUS, 544006-TEMPUS-1-20131-RS-TEMPUS-SMGR: Fostering University Support Services and Procedures for Full Participation in the European Higher Education Area – FUSE (Member of the Central Management Team) |

DAAD projects

- | | |
|-----------|---|
| 2001–2003 | Deutscher Akademischer Austauschdienst – DAAD: Software Reengineering und Cooperative Distributed Software Development (Project coordinator for University of Niš, Faculty of Sciences and Mathematics) |
| 2004–2006 | Deutscher Akademischer Austauschdienst – DAAD: Education and Research Cooperation (Project coordinator for University of Niš, Faculty of Sciences and Mathematics) |

WUS Austria projects

- | | |
|------|---|
| 2002 | World University Service Austria- WUS, CEP 106-2002: Multimedia Learning (Project leader) |
| 2006 | World University Service Austria- WUS, eLP 001-2006: eDiscrete Structures |
-

Projects of the Serbian Ministry of Education, Science and Technological Development

2019–2020	Master 4.0 – Development of study programs of national importance in the field of information technology, organization, and management: “Master 4.0 – Intelligent Data Analysis” – Master's degree study program of the University of Niš (Project leader)
2020	Machine Learning and Artificial Intelligence – Development of study programs of national importance in the field of Artificial Intelligence (Machine Learning): “Machine Learning and Artificial Intelligence” – Master's degree study program of the University of Niš, Faculty of Sciences

4. ADMINISTRATION AND OTHER ACTIVITIES

4.1. EXPERIENCE IN LEADERSHIP/MANAGEMENT

2004–2009	Dean • Faculty of Sciences and Mathematics, University of Niš (260 employees)
2015–2019	Chairman of the Administrative Council • Faculty of Sciences and Mathematics, University of Niš
2000–2002	Vice-Dean for Scientific Research • Faculty of Sciences and Mathematics, University of Niš
1998–2000	Head of the Department of Mathematics (30 members) • Faculty of Philosophy, University of Niš
1998– 2007	Head of the Computing Center • Faculty of Sciences and Mathematics, University of Niš
2023–2024	Head of the Department of Computer Science (25 members) • Faculty of Sciences and Mathematics, University of Niš
2000–2002, 2009–2012, 2015–present	Chairman of the Scientific Council for Natural and Mathematical Sciences • University of Niš
2009–2012	Head of the Department of Mathematics, Physics and Geosciences • Research Center of Serbian Academy of Science and Arts and of University of Niš
2007–2009	Head of the Board for International Relations • University of Niš
2015–present	Head of the Center for International Relations • University of Niš

4.2. MEMBERSHIP IN BOARDS/COMMITTEES WITHIN THE UNIVERSITY

2000–2002, 2004–2012, 2015–2021	Member of the University Senate
2002–2004	Member of the University Council
2000–present	Member of the Scientific Council for Natural and Mathematical Sciences • University of Niš
2007–2009, 2019 – present	Member of the Statutory Board • University of Niš
1992–present	Member of the Academic Council • Faculty of Sciences and Mathematics, University of Niš
2009–2019	Member of the Administrative Council • Faculty of Sciences and Mathematics, University of Niš
2015–present	Member of the Scientific Council of the Doctoral School of Mathematics • Universities of Novi Sad, Niš, Kragujevac and Novi Pazar and Mathematical Institute SANU, Belgrade
2022–2023	Member of the Administrative Council • Faculty of Biology, University of Belgrade (representative of the government)

4.3. MEMBERSHIP IN STATE RESEARCH COUNCILS OR THEIR COMMITTEES

2007–2009	Member of the National Experts Board for Mathematics and Mechanics • Ministry of Science and Technological Development, Republic of Serbia
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4.4. MEMBERSHIP IN OTHER STATE ACADEMIC BODIES

2007–2009	Member of the Conference of Universities of Serbia
2007–2011	Member of the National CEEPUS Committee • Ministry of Education and Sports, Republic of Serbia

4.5. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- European Society for Fuzzy Logic and Technology (EUSFLAT)
- International Fuzzy Systems Association (IFSA)
- Serbian Mathematical Sciences Association (SNMD) – Member of the Board of directors
- Serbian Mathematical Society (DMS)
- Yugoslav Association for Applied and Industrial Mathematics (JUPIM)

5. RECOGNITIONS, AWARDS, AND FELLOWSHIPS

5.1. STUDENT RECOGNITIONS, AWARDS, AND FELLOWSHIPS

- | | |
|------------|--|
| 1986, 1987 | <i>Best Student Award</i> • University of Niš • award for the best students of the faculties who completed those years of studies that are not starting or finishing |
| 1987 | <i>University of Niš Fellowship</i> • fellowship given to the best students of the faculties at the final year of study |
| 1988 | <i>Charter of the University of Niš</i> • award for the best-graduated students at the faculties of the University of Niš |
| 1988 | <i>Best Graduated Student Award</i> • University of Niš, Faculty of Philosophy |

5.2. ACADEMIC RECOGNITIONS, AWARDS, AND FELLOWSHIPS

- | | |
|------|--|
| 1995 | <i>Best Researcher Award</i> • Mathematical Institute of the Serbian Academy of Science and Arts • award for the second-placed researcher on the list of the most successful researchers in Serbia on research projects in mathematics in the period 1991-1995 |
| 1998 | <i>Fellowship for Young Mathematicians from Developing Countries to attend the ICM'98 in Berlin</i> • International Mathematical Union |
| 2017 | <i>Silver Sign of the University of Niš</i> • award for the outstanding contribution to the development of the University of Niš |

APPENDICES

APPENDIX 1: LIST OF PUBLICATIONS

MIROSLAV ĆIRIĆ

February 14, 2025.

A – PEER-REVIEWED SCIENTIFIC ARTICLES

Journal articles

- [1] M. Stanković, **M. Ćirić**, S. Stanimirović, Đ. Stakić, Approximate bisimulations for Kripke models of fuzzy multimodal logics over complete Heyting algebras, *FUZZY SETS AND SYSTEMS* 507 (2025) 109299.
- [2] M. Stanković, S. Stanimirović, **M. Ćirić**, Approximate Hennessy-Milner type theorems for fuzzy multimodal logics over Heyting algebras, *INTERNATIONAL JOURNAL OF APPROXIMATE REASONING* 179 (2025) 109362.
- [3] S. Stanimirović, L. A. Nguyen, **M. Ćirić**, M. Stanković, Breadth-first fuzzy bisimulations for fuzzy automata, *FUZZY SETS AND SYSTEMS* 503 (2025) 109246.
- [4] I. Stanković, Z. Jančić, **M. Ćirić**, I. Micić, S. Stanimirović, Two-mode weakly linear systems of fuzzy relation equations: Structures of solutions, computation methods, and applications, *INFORMATION SCIENCES* 686 (2025) 121319.
- [5] P. S. Stanimirović, **M. Ćirić**, S. D. Mourtas, G. V. Milovanović, M. J. Petrović, Simultaneous method for solving certain systems of matrix equations with two unknowns, *AXIOMS* 13(12) (2024) 838.
- [6] **M. Ćirić**, J. Ignjatović, P. Stanimirović, Idempotent-aided factorizations of regular elements of a semigroup, *MATHEMATICS* 12(19) (2024) 3136.
- [7] P. S. Stanimirović, **M. Ćirić**, S. D. Mourtas, P. Brzaković, D. Karabašević, Simulations and bisimulations between weighted finite automata based on time-varying models over real numbers, *MATHEMATICS* 12(13) (2024) 2110.
- [8] I. Micić, S. Stanimirović, J. R. González de Mendivil, **M. Ćirić**, Z. Jančić, Finite determinization of fuzzy automata using a parametric product-based t-norm, *FUZZY SETS AND SYSTEMS* 488 (2024) 108990.
- [9] I. Micić, **M. Ćirić**, J. Matejić, S. Stanimirović, L. A. Nguyen, Approximate weak simulations and bisimulations for fuzzy automata over the product structure, *FUZZY SETS AND SYSTEMS* 485 (2024) 108959.
- [10] **M. Ćirić**, I. Micić, J. Matejić, A. Stamenković, Simulations and bisimulations for max-plus automata, *DISCRETE EVENT DYNAMIC SYSTEMS* 34 (2024) 269–295.
- [11] **M. Ćirić**, J. Ignjatović, P. Stanimirović, Outer inverses in semigroups belonging to the prescribed Green's equivalence classes, *SEMIGROUP FORUM* 107 (2023) 251–293.
- [12] **M. Ćirić**, I. Micić, S. Stanimirović, L. A. Nguyen, Approximate state reduction of fuzzy finite automata, In: Zolt Gazdag, Szabolcs Iván and Gergely Kovásznai: Proceedings of the 16th International Conference on Automata and Formal Languages (AFL 2023), Eger, Hungary, September 5-7, 2023, *ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE* 386 (2023) 51–66.
- [13] N. Damljanović, **M. Ćirić**, J. Ignjatović, Weighted automata over vector spaces, In: Zolt Gazdag, Szabolcs Iván and Gergely Kovásznai: Proceedings of the 16th International Conference on Automata and Formal Languages (AFL 2023), Eger, Hungary, September 5-7, 2023, *ELECTRONIC PROCEEDINGS IN THEORETICAL COMPUTER SCIENCE* 386 (2023) 67–81.
- [14] D. Mosić, P. Stanimirović, **M. Ćirić**, Extensions of G-outer inverses, *FILOMAT* 37:22 (2023) 7407–7429.
- [15] I. Stanković, **M. Ćirić**, J. Ignjatović, Bisimulations for weighted networks with weights in a quantale, *FILOMAT* 37:11 (2023) 3335–3355.
- [16] **M. Ćirić**, J. Ignjatović, Ž. Popović, A. Stamenković, Positive fuzzy quasi-orders on semigroups, *FILOMAT* 37:5 (2023) 1341–1365.
- [17] M. Stanković, **M. Ćirić**, J. Ignjatović, Simulations and bisimulations for fuzzy multimodal logics over Heyting algebras, *FILOMAT* 37:3 (2023) 711–743.
- [18] P. S. Stanimirović, **M. Ćirić**, A. Lastra, J. R. Sendra, J. Sendra, Representations and geometrical properties of generalized inverses over fields, *LINEAR AND MULTILINEAR ALGEBRA* 70:22 (2022) 7318–7338.
- [19] M. Stanković, **M. Ćirić**, J. Ignjatović, Hennessy-Milner type theorems for fuzzy multimodal logics over Heyting algebras, *JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING* 39 (2-4) (2022), 341–379.

- [20] A. Stamenković, **M. Ćirić**, D. Đurđanović, Weakly linear systems for matrices over the max-plus quantale, DISCRETE EVENT DYNAMIC SYSTEMS 32 (2022) 1-25.
- [21] S. Stanimirović, I. Micić, **M. Ćirić**, Approximate bisimulations for fuzzy automata over complete Heyting algebras, IEEE TRANSACTIONS ON FUZZY SYSTEMS 30 (2) (2022) 437-447.
- [22] P. Stanimirović, **M. Ćirić**, A. Lastra, J. R. Sendra, J. Sendra, Representations and symbolic computation of generalized inverses over a field, APPLIED MATHEMATICS AND COMPUTATION 406 (2021) 126287.
- [23] Y. Ke, J. Chen, P. Stanimirović, **M. Ćirić**, Characterizations and representations of outer inverse for matrices over a ring, LINEAR AND MULTILINEAR ALGEBRA 69:1 (2021) 155-176.
- [24] P. S. Stanimirović, **M. Ćirić**, V. N. Katsikis, C. Li, H. Ma, Outer and (b,c) inverses of tensors, LINEAR AND MULTILINEAR ALGEBRA 68:5 (2020) 940-971.
- [25] S. Stanimirović, A. Stamenković, **M. Ćirić**, Improved algorithms for computing the greatest right and left invariant Boolean matrices and their application, FILOMAT 33:9 (2019) 2809-2831.
- [26] S. Stanimirović, **M. Ćirić**, J. Ignjatović, Determinization of fuzzy automata by factorizations of fuzzy states and right invariant fuzzy quasi-orders, INFORMATION SCIENCES 469 (2018) 79-100.
- [27] V. Ilić, **M. Ćirić**, M. Stanković, Cross-moments computation for stochastic context-free grammars, FACTA UNIVERSITATIS (NIŠ), SERIES MATHEMATICS AND INFORMATICS 33 (1) (2018) 41-61.
- [28] A. Stamenković, **M. Ćirić**, M. Bašić, Ranks of fuzzy matrices. Applications in state reduction of fuzzy automata, FUZZY SETS AND SYSTEMS 333 (2018) 124-139.
- [29] J. Ignjatović, **M. Ćirić**, Z. Jančić, Weighted finite automata with output, SOFT COMPUTING 22(4) (2018) 1121-1138.
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- [49] S. Bogdanović, Ž. Popović, **M. Ćirić**, Band decompositions of semigroups (A survey), *MATHEMATICA MACEDONICA* 8 (2010), 21–45.
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APPENDIX 1: LIST OF PUBLICATIONS

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