

MIROSLAV ĆIRIĆ

PROFESSOR OF MATHEMATICS AND COMPUTER SCIENCE

University of Niš Faculty of Sciences and Mathematics

DEPARTMENTS OF MATHEMATICS AND COMPUTER SCIENCE

Niš, Serbia

April 24, 2019

# **CURRICULUM VITAE**

### 1. BASIC INFORMATION

### 1.1. PERSONAL AND CONTACT INFORMATION

Date and place of birth:

July 17, 1964, Bela Palanka, Serbia

**Contact Information:** 

University of Niš, Faculty of Sciences and Mathematics,

**Department of Computer Science** 

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ORCID ID: 0000-0001-8625-4682 ResearcherID: T-9959-2018 Scopus Author ID: 6603791377

#### 1.2. EDUCATION AND DEGREES

1991 PhD in Mathematics (University of Belgrade, Faculty of Mathematics, Belgrade, Serbia)

PhD 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, 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, etc.)

### 2.2. PUBLICATIONS

- 162 publications, including 4 research monographs, 3 text-books, 3 edited books, and 150 peer-reviewed research articles published in scientific journals, conference proceedings, and book chapters
- most of 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, Linear and Multilinear Algebra, and others
- they have also been cited mostly in the top ranked journals
- Citations: Google Scholar: 1911, Scopus: 681, Web of Science: 617
- H-index: Google Scholar: 24, Scopus: 15, Web of Science: 15

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 main applicant)

2011–2019	Development of methods of computation and information processing: theory and applications – 174013
	Value: EUR 979.833; 39 researchers from Serbia, Germany (2) and United States (1);
	Funder: Ministry of Education, Science, and Technological Development, Republic of Serbia
	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		
2019-2020	Weighted pushdown automata with different acceptance modes	
	Aufbau internationaler Kooperationen mit Serbien	
	Funders: DFG - German Research Foundation	
	Participating institutions: <i>University of Leipzig, University of Niš, University of Kragujevac</i>	
	Project manager: Manfred Droste (Leipzig)	
2009-2010	Weighted Automata over Semirings and Lattices - D/08/02092	
	Bilateral German-Serbian project	
	Funders: Deutcher Akademischer Austauchdienst – DAAD, Ministry of Education, Science, and Technological Development, Republic of Serbia	
	Participating institutions: <i>University of Novi Sad, University of Niš, University of Leipzig, Technical University of Dresden</i>	
	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 <i>Universal Algebra</i> 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**

20	05, 2010	Evaluation of 3 project applications submitted for funding by the Ministry of	
		Education, Science and Technological Development (MESTD), Republic of Serbia	
20	07, 2008,	Evaluation of 3 project applications submitted for funding under the programs of	
20	14	bilateral scientific cooperation of Serbia with Germany, Slovakia and China	
20	07-2010	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)
- 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

- 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 185 talks at 97 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, 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

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
1	(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 •
1	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

### **Study visits**

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 Lepzig • 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)

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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
since 2008	Discrete Structures 1 (Computer Science, BSc)
since 2008	Design and Analysis of Algorithms (Computer Science, BSc)
since 2008	History and Philosophy of Mathematics (Mathematics, BSc)
since 2008	Mathematical Logic (Mathematics, 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 sudents of the Faculty of Information Technologies, University Metropoliten, Belgrade, Serbia)

## 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 decompositionos 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 magister'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, in progress [Computer Science]

### Awards won by doctoral students

1998 Conference of PhD Students in Computer Science • Szeged • Hungary

Tatjana Petković: Best Talk Award and the Medail of the John von Neumann Computer Society

2000 Conference of PhD Students in Computer Science • Szeged • Hungary

*Jelena Kovačević*: Second Prize *Žarko Popović*: Third Prize

### 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

since 2006 Seminar for Algebra and Theoretical Computer Science

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), Kharkov (Ukraine), Tucson, Arizona, and Dover, Delaver (United States), Leipzig, Dresden and Hamburg (Germany), Turku (Finland), Szeged (Hungary), Sofia (Bulgaria) 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), PhD thesis, University of Niš, Faculty of Philosophy, 1997. [Mathematics] (Supervisor: Petar Protić)
- 2. Igor Dolinka, On identities of algebras of regular languages (in Serbian), PhD 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), PhD 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), PhD thesis, University of Niš, Faculty of Sciences and Mathematics, 2000. [Mathematics] (Supervisor: Stojan Bogdanović)
- 5. Milan Tasić, Computation of generalized inverses (in Serbian), PhD 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), PhD 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), PhD 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), PhD 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), PhD 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), PhD thesis, University of Niš, Faculty of Sciences and Mathematics, 2008. [Computer Science] (Supervisor: Predrag Stanimirović)
- 11. Petar Đapić, Varieties of groupoids (in Serbian), PhD 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), PhD 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), PhD 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), PhD thesis, University of Novi Sad, Faculty of Science, 2011. [Mathematics] (Supervisor: Andreja Tepavčević)
- 15. Vanja Stepanović, The poblem of representation of weak congruence lattices (in Serbian), PhD thesis, University of Novi Sad, Faculty of Science, 2012. [Mathematics] (Supervisor: Andreja Tepavčević)

- 16. Selver Pepić, Matrix computations in PHP/MySQL environment (in Serbian), PhD 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, PhD thesis, University of Niš, Faculty of Sciences and Mathematics, 2014. [Computer Science] (Supervisor: Jelena Ignjatović)
- 18. Ivana Micić, Bisimulations for Fuzzy Automata, PhD 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, PhD 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 optimiza-tion problems (in Serbian), PhD thesis, University of Niš, Faculty of Sciences and Mathematics, 2015. [Computer Science] (Supervisor: Jelena Ignjatović)
- 21. Elijah Eghosa Edeghagba, Ω-algebraic systems, PhD thesis, University of Novi Sad, Faculty of Science, 2017. [Mathematics] (Supervisor: Branimir Šešelja)
- 22. Ana Slivkova, Partial closure oparators and applications in the theory of ordered sets (in Serbian), PhD thesis, University of Novi Sad, Faculty of Science, 2017. [Mathematics] (Supervisor: Branimir Šešelja)
- 23. Omalkhear Salem Almabruk Bleblou, Ω-Boolean algebras, PhD thesis, University of Novi Sad, Faculty of Science, 2017. [Mathematics] (Supervisor: Andreja Tepavčević)

#### 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 used on 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**

2018–2021 598434-EPP-1-2018-1-RS-EPPKA2-CBHE-JP: Strengthening Teaching Competences in Higher Education in Natural and Mathematical – TeComp (Member of the Central Management Team)

#### **TEMPUS** projects

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and IT -
tatistics
es in
rvices
mber of

### **DAAD** projects

2001-2003	Deutcher Akademischer Austauchdienst – DAAD: Software Reengineering und Cooperative
	Distributed Software Development (Project coordinator for University of Niš, Faculty of Sciences
	and Mathematics)
2004-2006	Deutcher Akademischer Austauchdienst – 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

### 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
2000-2002, 2009-2012,	Chairman of the Scientific Council for Natural Sciences and Mathematics •
2015-present	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,	Member of the University Senate
2015-present	
2002-2004	Member of the University Council
2000-present	Member of the Scientific Council for Natural Sciences and
	Mathematics • 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

### 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

### 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)
- 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	Best Student Award • 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	Charter of the University of Niš • award for the best graduated students at the faculties
	of the University of Niš
1988	Best Graduated Student Award • University of Niš, Faculty of Philosophy

## 5.2. ACADEMIC RECOGNITIONS, AWARDS AND FELLOWSHIPS

ical Institute of the Serbian Academy of Science and
researcher on the list of the most successful rojects in mathematics in the period 1991-1995
ns from Developing Countries to attend the ICM'98 in
Union
award for the outstanding contribution to the iš

# **APPENDICES**

### APPENDIX 1: LIST OF PUBLICATIONS

MIROSLAV ĆIRIĆ April 24, 2019

### A - PEER-REVIEWED SCIENTIFIC ARTICLES

### Journal articles

- [1] S. Stanimirović, A. Stamenković, **M. Ćirić**, Improved algorithms for computing the greatest right and left invariant Boolean matrices and their application, FILOMAT (2019), accepted for publication.
- [2] Y. Ke, J. Chen, P. Stanimirović, **M. Ćirić**, Characterizations and representations of outer inverse for matrices over a ring, LINEAR AND MULTILINEAR ALGEBRA (2019), https://doi.org/10.1080/03081087.2019.1590302.
- [3] P. S. Stanimirović, **M. Ćirić**, V. N. Katsikis, C. Li, H. Ma, Outer and (b,c) inverses of tensors, LINEAR AND MULTILINEAR ALGEBRA (2018), https://doi.org/10.1080/03081087.2018.1521783.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] J. Ignjatović, M. Ćirić, Z. Jančić, Weighted finite automata with output, SOFT COMPUTING 22(4) (2018) 1121-1138.
- [8] P. S. Stanimirović, **M. Ćirić**, I. Stojanović, D. Gerontitis, Conditions for existence, representations and computation of matrix generalized inverses, COMPLEXITY Vol. 2017 (2017) Article ID 6429725, 27 pages, https://doi.org/10.1155/2017/6429725.
- [9] I. Stanković, **M. Ćirić**, J. Ignjatović, Fuzzy relation inequalities and equations with two unknowns and their applications, FUZZY SETS AND SYSTEMS 322 (2017) 86–105.
- [10] J. Ignjatović, **M. Ćirić**, Moore-Penrose equations in involutive residuated semigroups and involutive quantales, FILOMAT 31:2 (2017) 183–196.
- [11] Z. Jančić, I. Micić, J. Ignjatović, **M. Ćirić**, Further improvements of determinization methods for fuzzy finite automata, FUZZY SETS AND SYSTEMS 301 (2016) 79-102.
- [12] A. Stamenković, **M. Ćirić**, J. Ignjatović, Different models of automata with fuzzy states, FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 30 (3) (2015), 235–253.
- [13] I. Micić, Z. Jančić, J. Ignjatović, **M. Ćirić**, Determinization of fuzzy automata by means of the degrees of language inclusion, IEEE TRANSACTIONS ON FUZZY SYSTEMS 23 (6) (2015) 2144–2153.
- [14] J. Ignjatović, **M. Ćirić**, B. Šešelja, A. Tapavčević, Fuzzy relation inequalities and equations, fuzzy quasi-orders, and closures and openings of fuzzy sets, FUZZY SETS AND SYSTEMS 260 (2015) 1-24.
- [15] Z. Jančić, **M. Ćirić**, Brzozowski type determinization for fuzzy automata, FUZZY SETS AND SYSTEMS 249 (2014) 73–82.
- [16] A. Stamenković, **M. Ćirić**, J. Ignjatović, Reduction of fuzzy automata by means of fuzzy quasi-orders, INFORMATION SCIENCES 275 (2014) 168–198.
- [17] N. Damljanović, **M. Ćirić**, J. Ignjatović, Bisimulations for weighted automata over an additively idempotent semiring, THEORETICAL COMPUTER SCIENCE 534 (2014) 86–100.
- [18] **M. Ćirić**, J. Ignjatović, M. Bašić, I. Jančić, Nondeterministic automata: equivalence, bisimulations, and uniform relations, INFORMATION SCIENCES 261 (2014) 185–218.
- [19] J. Ignjatović, **M. Ćirić**, V. Simović, Fuzzy relation equations and subsystems of fuzzy transition systems, KNOWLEDGE-BASED SYSTEMS 38 (2013) 48–61.
- [20] **M. Ćirić**, J. Ignjatović, I. Jančić, N. Damljanović, Computation of the greatest simulations and bisimulations between fuzzy automata, FUZZY SETS AND SYSTEMS 208 (2012) 22–42.
- [21] A. Stamenković, **M. Ćirić**, Construction of fuzzy automata from fuzzy regular expressions, FUZZY SETS AND SYSTEMS 199 (2012) 1–27.
- [22] J. Ignjatović, **M. Ćirić**, N. Damljanović, I. Jančić, Weakly linear systems of fuzzy relation inequalities: The heterogeneous case, FUZZY SETS AND SYSTEMS 199 (2012) 64–91.

- [23] **M. Ćirić**, J. Ignjatović, N. Damljanović, M. Bašić, Bisimulations for fuzzy automata, FUZZY SETS AND SYSTEMS 186 (2012) 100–139
- [24] J. Ignjatović, **M. Ćirić**, Weakly linear systems of fuzzy relation inequalities and their applications: A brief survey, FILOMAT 26(2) (2012), 207–241.
- [25] N. Damljanović, **M. Ćirić**, S. Bogdanović, Congruence openings of additive Green's relations on a semiring, SEMIGROUP FORUM 82 (2011) 437-454.
- [26] Z. Jančić, J. Ignjatović, **M. Ćirić**, An improved algorithm for determinization of weighted and fuzzy automata, INFORMATION SCIENCES 181 (2011) 1358–1368.
- [27] S. Bogdanović, Ž. Popović, **M. Ćirić**, Band decompositions of semigroups (A survey), MATHEMATICA MACEDONICA 8 (2010), 21–45.
- [28] S. Bogdanović, Ž. Popović, **M. Ćirić**, On Lallement's lemma, NOVI SAD JOURNAL OF MATHEMATICS 40:3 (2010) 3-9.
- [29] S. Bogdanović, Ž. Popović, M. Ćirić, Bands of lambda-simple semigroups, FILOMAT 24:4 (2010) 77–85.
- [30] J. Ignjatović, **M. Ćirić**, S. Bogdanović, On the greatest solutions to weakly linear systems of fuzzy relation inequalities and equations, FUZZY SETS AND SYSTEMS 161 (2010) 3081–3113.
- [31] **M. Ćirić**, M. Droste, J. Ignjatović, H. Vogler, Determinization of weighted finite automata over strong bimonoids, INFORMATION SCIENCES 180 (2010) 3497–3520.
- [32] **M. Ćirić**, S. Bogdanović, Fuzzy social network analysis, GODIŠNJAK UČITELJSKOG FAKULTETA U VRANJU, 1 (2010) 179–190.
- [33] **M. Ćirić**, A. Stamenković, J. Ignjatović, T. Petković, Fuzzy relation equations and reduction of fuzzy automata, JOURNAL OF COMPUTER AND SYSTEM SCIENCES 76 (2010), 609–633.
- [34] S. Bogdanović, Ž. Popović, M. Ćirić, Bands of k-Archimedean semigroups, SEMIGROUP FORUM 80 (2010) 426–439.
- [35] J. Ignjatović, **M. Ćirić**, S. Bogdanović, T. Petković, Myhill-Nerode type theory for fuzzy languages and automata, FUZZY SETS AND SYSTEMS 161 (2010) 1288–1324.
- [36] J. Ignjatović, **M. Ćirić**, Formal power series and regular operations on fuzzy languages, INFORMATION SCIENCES 180 (2010) 1104–1120.
- [37] S. V. Vukašinović, P. S. Stanimirović, M. D. Petković, **M. D. Ćirić**, Turing machine and its symbolic simulation, FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 24 (2009) 53–72.
- [38] **M. Ćirić**, J. Ignjatović, Ž. Popović, Stojan M. Bogdanović scientist, teacher, and poet, FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 24 (2009) 1–13.
- [39] I. Stanimirović, M. Petković, P. Stanimirović, **M. Ćirić**, Heuristic algorithm for single resource constrained project scheduling problem based on the dynamic programming, YUGOSLAV JOURNAL OF OPERATIONS RESEARCH 19 (2009) 281–298.
- [40] S. Bogdanović, **M. Ćirić**, Ž. Popović, Power semigroups that are 0-Archimedean, MATHEMATICA MORAVICA 13:1 (2009) 25–28.
- [41] J. Ignjatović, **M. Ćirić**, S. Bogdanović, Fuzzy homomorphisms of algebras, FUZZY SETS AND SYSTEMS 160 (2009) 2345–2365.
- [42] **M. Ćirić**, J. Ignjatović, S. Bogdanović, Uniform fuzzy relations and fuzzy functions, FUZZY SETS AND SYSTEMS 160 (2009) 1054–1081.
- [43] **M. Ćirić**, Ž. Popović, S. Bogdanović, Effective subdirect decompositions of regular semigroups, SEMIGROUP FORUM 77 (2008) 500–519.
- [44] J. Ignjatović, **M. Ćirić**, S. Bogdanović, Determinization of fuzzy automata with membership values in complete residuated lattices, INFORMATION SCIENCES 178 (2008) 164–180.
- [45] **M. Ćirić**, J. Ignjatović, S. Bogdanović, Fuzzy equivalence relations and their equivalence classes, FUZZY SETS AND SYSTEMS 158 (2007) 1295–1313.
- [46] **M. Ćirić**, A. Stamenković, J. Ignjatović, T. Petković, Factorization of fuzzy automata, in: E. Csuhaj-Varjú and Z. Ésik (Eds.): FCT 2007, LECTURE NOTES IN COMPUTER SCIENCE 4639 (2007) 213–225.
- [47] **M. Ćirić**, T. Petković, S. Bogdanović, A note on subdirect products of unary algebras, CZECHOSLOVAK MATHEMATICAL JOURNAL 57 (132) (2007) 573–578.
- [48] T. Petković, **M. Ćirić**, S. Bogdanović, On correspondences between unary algebras, automata, semigroups and congruences, ALGEBRA COLLOQUIUM 13 (3) (2006) 495–506.
- [49] P. Stanimirović, S. Bogdanović, **M. Ćirić**, Adjoint mappings and inverses of matrices, ALGEBRA COLLOQUIUM 13 (3) (2006) 421–432.
- [50] M. Ćirić, S. Rančić, Parsing in different languages, FACTA UNIVERSITATIS (Niš), SER. ELEC. ENERG. 18 (2) (2005) 299–307.
- [51] Ž. Popović, S. Bogdanović, **M. Ćirić**, A note on semilattice decompositions of completely pi-regular semigroups, NOVI SAD JOURNAL OF MATHEMATICS 34:2 (2004) 167–174.

- [52] M. Bogdanović, S. Bogdanović, T. Petković, **M. Ćirić**, Necks of automata, NOVI SAD JOURNAL OF MATHEMATICS 34:2 (2004) 5–15.
- [53] T. Petković, **M. Ćirić**, S. Bogdanović, Minimal forbidden subwords, INFORMATION PROCESSING LETTERS 92 (2004) 211–218.
- [54] T. Petković, **M. Ćirić**, S. Bogdanović, Unary algebras, semigroups and congruences on free semigroups, THEORETICAL COMPUTER SCIENCE 324 (2004) 87–105.
- [55] S. Bogdanović, **M. Ćirić**, P. Stanimirović, T. Petković, Linear equations and regularity conditions on semigroups, SEMIGROUP FORUM 69 (2004) 63–74.
- [56] T. Petković, **M. Ćirić**, S. Bogdanović, Words and forbidden subwords, TUCS GENERAL PUBLICATION 27 (2003) 125–134.
- [57] S. Bogdanović, **M. Ćirić**, B. Imreh, T. Petković, M. Steinby, On local properties of unary algebras, ALGEBRA COLLOQUIUM 10 (4) (2003) 461–478.
- [58] S. Bogdanović, **M. Ćirić**, M. Mitrović, Semilattices of nil-extensions of simple regular semigroups, ALGEBRA COLLOOUIUM 10 (1) (2003) 81–90.
- [59] T. Petković, **M. Ćirić**, S. Bogdanović, Characteristic semigroups of directable automata, in: M. Ito (ed.) et al., Developments in language theory, DLT 2002, Kyoto, Japan, 2002, LECTURE NOTES IN COMPUTER SCIENCE 2450 (2003) 417–427.
- [60] Ž. Popović, S. Bogdanović, T. Petković, **M. Ćirić**, Trapped automata, PUBLICATIONES MATHEMATICAE DEBRECEN 60 (3-4) (2002) 661–677.
- [61] J. Kovačević, **M. Ćirić**, T. Petković, S. Bogdanović, Decompositions of automata and reversible states, PUBLICATIONES MATHEMATICAE DEBRECEN 60 (3-4) (2002) 587–602.
- [62] S. Bogdanović, **M. Ćirić**, A. Stamenković, Primitive idempotents in semigroups, MATHEMATICA MORAVICA 5 (2001) 7–18.
- [63] **M. Ćirić**, T. Petković, S. Bogdanović, M. Bogdanović, Remarks on power automata, FILOMAT (Niš) 15 (2001) 99–109.
- [64] **M. Ćirić**, S. Bogdanović, Quasi-semilattice decompositions of semigroups with zero, ALGEBRAS, GROUPS AND GEOMETRIES 18 (1) (2001) 27–34.
- [65] **M. Ćirić**, S. Bogdanović and T. Petković, Sums and limits of generalized direct families of algebras, SOUTHEAST ASIAN BULLETIN OF MATHEMATICS 25 (2001) 47–60.
- [66] **M. Ćirić**, S. Bogdanović, A five-element Brandt semigroup as a forbidden divisor, SEMIGROUP FORUM 61 (2000) 363–372.
- [67] S. Bogdanović, **M. Ćirić**, Ž. Popović, Semilattice decompositions of semigroups revisited, SEMIGROUP FORUM 61 (2000) 263–276.
- [68] S. Bogdanović, **M. Ćirić**, Remarks on Gamma semigroups and their generalizations, PURE MATHEMATICS AND APPLICATIONS 10 (1) (1999) 17–22.
- [69] **M. Ćirić**, B. Imreh, M. Steinby, Subdirectly irreducible definite, reverse-definite and generalized definite automata, PUBLICATIONS OF THE FACULTY OF ELECTRICAL ENGINEERING, University of Belgrade, SERIES MATHEMATICS 10 (1999) 69–79.
- [70] **M. Ćirić**, S. Bogdanović, Ž. Popović, On nil-extensions of rectangular groups, ALGEBRA COLLOQUIUM 6 (2) (1999) 205–213.
- [71] **M. Ćirić**, S. Bogdanović, Lattices of subautomata and direct sum decompositions of automata, ALGEBRA COLLOQUIUM 6 (1) (1999) 71–88.
- [72] S. Bogdanović, **M. Ćirić**, Radicals of Green's relations, CZECHOSLOVAK MATHEMATICAL JOURNAL 49 (124) (1999) 683–688.
- [73] S. Bogdanović, **M. Ćirić**, T. Petković, B. Imreh, M. Steinby, Traps, cores, extensions and subdirect decompositions of unary algebras, FUNDAMENTA INFORMATICAE 38 (1-2) (1999) 51–60.
- [74] **M. Ćirić**, S. Bogdanović, The lattice of semilattice-matrix decompositions of semigroups, ROCKY MOUNTAIN JOURNAL OF MATHEMATICS 29 (4) (1999) 1225–1235.
- [75] S. Bogdanović, B. Imreh, **M. Ćirić**, T. Petković, Directable automata and their generalizations A survey, in: S. Crvenkovic and I. Dolinka (eds.), Proc. VIII Int. Conf. "Algebra and Logic" (Novi Sad, 1998), NOVI SAD JOURNAL OF MATHEMATICS 29 (2) (1999) 31–74.
- [76] T. Petković, **M. Ćirić**, S. Bogdanović, Decompositions of automata and transition semigroups, ACTA CYBERNETICA (Szeged) 13 (1998) 385–403.
- [77] **M. Ćirić**, S. Bogdanović, J. Kovačević, Direct sum decompositions of quasi-ordered sets and their applications, FILOMAT (Niš) 12:1 (1998) 65–82.
- [78] S. Bogdanovic, **M. Ćirić**, B. Novikov, Bands of left Archimedean semigroups, PUBLICATIONES MATHEMATICAE DEBRECEN 52 (1-2) (1998) 85–101.

- [79] **M. Ćirić**, S. Bogdanović, T. Petković, The lattice of subautomata of an automaton A survey, PUBLICATIONS DE L'INSTITUT MATHÉMATIQUE (Beograd) 64 (78) (1998) 165–182.
- [80] **M. Ćirić**, S. Bogdanović, More on normal band compositions of semigroups, FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 12 (1997) 15–21.
- [81] S. Bogdanović, **M. Ćirić**, Generation of positive lower-potent half-congruences, SOUTHEAST ASIAN BULLETIN OF MATHEMATICS 21 (1997) 227–231.
- [82] S. Bogdanović, M. Ćirić, Semilattices of left completely Archimedean semigroups, MATHEMATICA MORAVICA 1 (1997) 11–16.
- [83] **M. Ćirić**, S. Bogdanović, The lattice of positive quasi-orders on a semigroup, ISRAEL JOURNAL OF MATHEMATICS 98 (1997) 157–166.
- [84] S. Bogdanović, **M. Ćirić**, A note on radicals of Green's relations, PURE MATHEMATICS AND APPLICATIONS 7 (3-4) (1996) 215–219.
- [85] S. Bogdanović, M. Ćirić, Power semigroups that are Archimedean II, FILOMAT (Niš) 10 (1996) 87–92.
- [86] **M. Ćirić**, S. Bogdanović, T. Petković, The lattice of positive quasi-orders on an automaton, FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 11 (1996) 143–156.
- [87] **M. Ćirić**, S. Bogdanović, Direct sums of nil-rings and of rings with Clifford's multiplicative semigroups, MATHEMATICA BALKANICA (N.S.) 10 (1996) 65–71.
- [88] **M. Ćirić**, S. Bogdanović, Ordinal decompositions of semigroups, PUBLICATIONS OF THE FACULTY OF ELECTRICAL ENGINEERING, University of Belgrade, SERIES MATHEMATICS 7 (1996) 30–33.
- [89] M. Ćirić, S. Bogdanović, Posets of C-congruences, ALGEBRA UNIVERSALIS 36 (1996) 423–424.
- [90] **M. Ćirić**, S. Bogdanović, 0-Archimedean semigroups, INDIAN JOURNAL OF PURE AND APPLIED MATHEMATICS 27 (5) (1996) 463–468.
- [91] S. Bogdanović, **M. Ćirić**, A note on left regular semigroups, PUBLICATIONES MATHEMATICAE DEBRECEN 48 (3-4) (1996) 285–291.
- [92] **M. Ćirić**, S. Bogdanović, Strong bands of groups of left quotients, GLASGOW MATHEMATICAL JOURNAL 38 (1996) 237–242.
- [93] **M. Ćirić**, S. Bogdanović, Subdirect products of a band and a semigroup, PORTUGALIAE MATHEMATICA 53 (1) (1996) 117–128.
- [94] M. Ćirić, S. Bogdanović, Identities over the twoelement alphabet, SEMIGROUP FORUM 52 (1996) 365–379.
- [95] M. Ćirić, S. Bogdanović, Semilattice decompositions of semigroups, SEMIGROUP FORUM 52 (1996) 119–132.
- [96] **M. Ćirić**, S. Bogdanović, Orthogonal sums of 0-sigma-simple semigroups, ACTA MATHEMATICA HUNGARICA 70 (3) (1996) 199–205.
- [97] **M. Ćirić**, S. Bogdanović, T. Petković, Rings satisfying some semigroup identities, ACTA SCIENTIARUM MATHEMATICARUM (Szeged) 61 (1995) 123–137.
- [98] S. Bogdanović, **M. Ćirić**, Decompostitons of semigroups with zero, PUBLICATIONS DE L'INSTITUT MATHÉMATIQUE (Beograd) 57 (71) (1995) 111–123.
- [99] S. Bogdanović, **M. Ćirić**, M. Mitrović, Semilattices of hereditary Archimedean semigroups, in: Algebra, logic and discrete mathematics (Niš, 1995), FILOMAT (Niš) 9:3 (1995) 611–617.
- [100] S. Bogdanović, **M. Ćirić**, Semilattices of weakly left Archimedean semigroups, in: Algebra, logic and discrete mathematics (Niš, 1995), FILOMAT (Niš) 9:3 (1995) 603–610.
- [101] S. Bogdanović, M. Ćirić, Power semigroups that are Archimedean, FILOMAT (Niš) 9:1 (1995) 57-62.
- [102] S. Bogdanović, M. Ćirić, Orthogonal sums of semigroups, ISRAEL JOURNAL OF MATHEMATICS 90 (1995) 423-428.
- [103] S. Bogdanović, **M. Ćirić**, Semilattices of nil-extensions of rectangular groups, PUBLICATIONES MATHEMATICAE DEBRECEN 47 (3-4) (1995) 229–235.
- [104] **M. Ćirić**, S. Bogdanović, Theory of greatest decompositions of semigroups, (A survey), in: Algebra, logic and discrete mathematics (Niš, 1995), FILOMAT (Niš) 9:3 (1995) 385–426.
- [105] **M. Ćirić**, S. Bogdanović, The lattice of positive quasi-orders on a semigroup II, FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 9 (1994) 7–17.
- [106] S. Bogdanović, **M. Ćirić**, Chains of Archimedean semigroups (Semiprimary semigroups), INDIAN JOURNAL OF PURE AND APPLIED MATHEMATICS 25 (3) (1994) 331–336.
- [107] **M. Ćirić**, S. Bogdanović, Nil-extensions of unions of groups induced by identities, SEMIGROUP FORUM 48 (1994) 303–311.
- [108] S. Bogdanović, **M. Ćirić**, A new approach to some greatest decompositions of semigroups, (A survey), SOUTHEAST ASIAN BULLETIN OF MATHEMATICS 18 (3) (1994) 27–42.
- [109] S. Bogdanović, **M. Ćirić**, Retractive nil-extensions of bands of groups, FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 8 (1993) 11–20.
- [110] **M. Ćirić**, S. Bogdanović, Decompositions of semigroups induced by identities, SEMIGROUP FORUM 46 (1993) 329–346.

- [111] **M. Ćirić**, S. Bogdanović, Spined products of some semigroups, PROCEEDINGS OF THE JAPAN ACADEMY, SERIES A, Mathematical Sciences 69 (9) (1993) 357–362.
- [112] **M. Ćirić**, S. Bogdanović, Normal band compositions of semigroups, PROCEEDINGS OF THE JAPAN ACADEMY, SERIES A, Mathematical Sciences 69 (7) (1993) 256–261.
- [113] S. Bogdanović, **M. Ćirić**, Semilattices of Archimedean semigroups and (completely) pi-regular semigroups, I (A survey), FILOMAT (Niš) 7 (1993) 1–40.
- [114] S. Bogdanović, **M. Ćirić**, Semigroups of Galbiati-Veronesi IV (Bands of nil-extensions of groups), FACTA UNIVERSITATIS, SERIES MATHEMATICS AND INFORMATICS 7 (1992) 23–35.
- [115] **M. Ćirić**, S. Bogdanović, A note on pi-regular rings, PURE MATHEMATICS AND APPLICATIONS, SERIES A 3 (1-2) (1992) 39–42.
- [116] S. Bogdanović, **M. Ćirić**, Primitive pi-regular semigroups, PROCEEDINGS OF THE JAPAN ACADEMY, SERIES A, Mathematical Sciences 68 (10) (1992) 334–337.
- [117] S. Bogdanović, **M. Ćirić**, Retractive nil-extensions of regular semigroups II, PROCEEDINGS OF THE JAPAN ACADEMY, SERIES A, Mathematical Sciences 68 (6)(1992) 126–130.
- [118] S. Bogdanović, **M. Ćirić**, Retractive nil-extensions of regular semigroups I, PROCEEDINGS OF THE JAPAN ACADEMY, SERIES A, Mathematical Sciences 68 (5) (1992) 115–117.
- [119] S. Bogdanović, **M. Ćirić**, Right pi-inverse semigroups and rings, ZBORNIK RADOVA FILOZOFSKOG FAKULTETA U NIŠU, SERIJA MATEMATIKA 6 (1992) 137–140.
- [120] S. Bogdanović, **M. Ćirić**, Semigroups in which the radical of every ideal is a subsemigroup, ZBORNIK RADOVA FILOZOFSKOG FAKULTETA U NIŠU, SERIJA MATEMATIKA 6 (1992) 129–135.
- [121] **M. Ćirić**, S. Bogdanović, Inflations of a band of monoids, ZBORNIK RADOVA FILOZOFSKOG FAKULTETA U NIŠU, SERIJA MATEMATIKA 6 (1992) 141–149.
- [122] S. Bogdanović, **M. Ćirić**, Tight semigroups, PUBLICATIONS DE L'INSTITUT MATHÉMATIQUE (Beograd) 50 (64), (1991) 71–84.
- [123] S. Bogdanović, **M. Ćirić**, A nil-extension of a regular semigroup, GLASNIK MATEMATIČKI, 25 (2) (1991) 3–23.
- [124] S. Bogdanović, **M. Ćirić**, Band compositions determined by systems of monomorphisms, EKONOMSKE TEME 1 (1990) 75–82.
- [125] M. Ćirić, S. Bogdanović, Sturdy bands of semigroups, COLLECTANEA MATHEMATICA 41 (2) (1990), 189-195.
- [126] S. Bogdanović, M. Ćirić, Un+1-semigroups, CONTRIBUTIONS MANU XI 1-2 (1990) 9–23.
- [127] **M. Ćirić**, S. Bogdanović, Rings whose multiplicative semigroups are nil-extensions of a union of groups, PURE MATHEMATICS AND APPLICATIONS, SERIES A 1 (3-4) (1990) 217–234.
- [128] S. Bogdanović, **M. Ćirić**, Bands of monoids, MATEMATIČKI BILTEN, Kniga 9-10 (XXXV-XXXVI) 1985-1986, Skopje 1989, 57-61.
- [129] S. Bogdanović, **M. Ćirić**, Semigroups of Galbiati-Veronesi III (Semilattices of nil-extensions of left and right groups), FACTA UNIVERSITATIS (Niš), SERIES MATHEMATICS AND INFORMATICS 4 (1989) 1–14.
- [130] **M. Ćirić**, S. Bogdanović, Redei's bands of periodic pi-groups, ZBORNIK RADOVA FILOZOFSKOG FAKULTETA U NIŠU, SERIJA MATEMATIKA 3 (1989) 31–42.

### Chapters in research books

- [131] **M. Ćirić**, J. Ignjatović, I. Stanković, Direct and indirect methods for solving two-mode systems of fuzzy relation equations and inequalities, in: M. E. Cornejo et al. (eds.), Trends in Mathematics and Computational Intelligence, STUDIES IN COMPUTATIONAL INTELLIGENCE Vol. 796, Springer, 2019, pp. 19–38.
- [132] **M. Ćirić**, J. Ignjatović, The existence of generalized inverses of fuzzy matrices, in: L. T. Kóczy et al. (eds.), Interactions Between Computational Intelligence and Mathematics Part 2, STUDIES IN COMPUTATIONAL INTELLIGENCE Vol. 794, Springer, 2019, pp. 155–165.
- [133] **M. Ćirić**, J. Ignjatović, Fuzziness in Automata Theory: Why? How?, in: R. Seising, E. Trillas, C. Moraga, S. Termini (eds.), On Fuzziness, A Homage to Lotfi A. Zadeh, STUDIES IN FUZZINESS AND SOFT COMPUTING Vol. 298, Berlin New York, Springer 2013, pp. 109–116.
- [134] S. Bogdanović, **M. Ćirić**, T. Petković, Uniformly pi-regular rings and semigroups: A survey, in: Four Topics in Mathematics, ZBORNIK RADOVA 9 (17), MATEMATICKI INSTITUT SANU, Beograd, 1999, 5–82.

### **Conference proceedings**

[135] **M. Ćirić**, J. Ignjatović, I. Stanković, Regular fuzzy equivalences on multi-mode multi-relational fuzzy networks, in: Proceedings of the 2015 Conference of the International Fuzzy Systems Association and the European Society for Fuzzy Logic and Technology (IFSA-EUSFLAT 2015), Gijón, Asturias, Spain, Advances in Intelligent Systems Research Vol. 89, Atlantis Press, 2015, pp. 398–403.

- [136] J. Ignjatović, **M. Ćirić**, I. Stanković, Bisimulations in fuzzy social network analysis, in: Proceedings of the 2015 Conference of the International Fuzzy Systems Association and the European Society for Fuzzy Logic and Technology (IFSA-EUSFLAT 2015), Gijón, Asturias, Spain, Advances in Intelligent Systems Research Vol. 89, Atlantis Press, 2015, pp. 404–411.
- [137] S. Bogdanović, Ž. Popović, **M. Ćirić**, Semilattices of Archimedean semigroups, in: W. Hemakul, S. Wahyuni, P. W. Sy (eds.) Advances in Algebraic Structures, Proceedings of International Conference on Algebra ICA 2010, Gadjah Mada University, Yogijakarta, Indonesia, World Scientific, 2011, 43–52.
- [138] I. Stanković, J. Ignjatović, **M. Ćirić**, Boolean relation equations in data analysis, in: Proceedings of the 9th IEEE International Symposium on Intelligent Systems and Informatics (SISY 2011), Subotica, Serbia, 2011, pp. 125–130.
- [139] S. Bogdanović, **M. Ćirić**, M. Mitrović, Semigroups satisfying certain regularity conditions, in: Advances In Algebra, Proceedings of the ICM Satellite Conference in Algebra and Related Topics in Hong Kong, 2002, (K. P. Shum, Z. X. Wan and J-P. Zhang, eds.), World Scientific, 2003, pp. 46–59.
- [140] Ž. Popović, S. Bogdanović, T. Petković, **M. Ćirić**, Generalized directable automata, in: Words, languages and combinatorics, III, Proceedings of the Third International Colloquium in Kyoto, Japan, (M. Ito and T. Imaoka, eds.), World Scientific, 2003, pp. 378–395.
- [141] **M. Ćirić**, LATEX Tools for Web Publishing, Screen Presentations and Electronic Examinations, in: Proceedings of Workshops on Computer Science Education, Faculty of Electronic Engineering, Niš, 2003, pp. 161–168.
- [142] S. Bogdanović, **M. Ćirić**, N. Stevanović, Semigroups in which any proper ideal is semilattice indecomposable, in: A tribute to S. B. Presic. Papers celebrating his 65th birthday, Beograd: Matematički Institut SANU, 2001, pp. 94-98.
- [143] M. Mitrović, S. Bogdanović, **M. Ćirić**, Locally uniformly pi-regular semigroups, in: Semigroups, Proceedings of the International Conference in Braga, Portugal, 1999 (P. Smith, E. Giraldes and P. Martins, eds.), World Scientific, 2000, pp. 106–113.
- [144] **M. Ćirić**, T. Petković, S. Bogdanović, Semigroups satisfying some variable identities, in: Semigroups, Proceedings of the International Conference in Braga, Portugal, 1999 (P. Smith, E. Giraldes and P. Martins, eds.), World Scientific, 2000, pp. 44–53.
- [145] **M. Ćirić**, S. Bogdanović, The lattice of varieties of bands, in: Semigroups and Applications, Proceedings of the Conference in St. Andrews, 1997 (J. M. Howie and N. Ruskuc, eds.), World Scientific, 1998, pp. 47–61.
- [146] S. Bogdanović, **M. Ćirić**, Quasi-orders and semilattice decompositions of semigroups, (A survey), in: Semigroups, Proceedings of the International Conference in Semigroups and its Related Topics, Kunming, China, 1995, (K. P. Shum, Y. Guo, M. Ito and Y. Fong, eds.) Springer-Verlag, 1998, pp. 27–56.
- [147] S. Bogdanović, **M. Ćirić**, A note on congruences on algebras, in: Proc. of II Math. Conf. in Pristina 1996, Lj. D. Kocinac ed., Pristina, 1997, pp. 67–72.
- [148] S. Bogdanović, **M. Ćirić**, Positive quasi-orders with the common multiple property on a semigroup, in: Proc. of the Math. Conf. in Pristina 1994, Lj. D. Kocinac ed., Pristina 1995, pp. 1–6.
- [149] **M. Ćirić**, C-(m,n)-ideal semigroups, in: Procedings of the conference "Algebra and Logic", Cetinje 1986, Institute of Mathematics, University of Novi Sad, 1987, pp. 23–32.

### **B - NON-REFEREED SCIENTIFIC ARTICLES**

- [150] **M. Ćirić**, Semigroups and Identities: A survey, Report on the Research Project 0401B, Mathematical Institute SANU, Beograd, 1995 (in Serbian).
- [151] **M. Ćirić**, Extensions of Rings, Seminar Paper, University of Novi Sad, Faculty of Sciences and Mathematics, 1989, 23 p. (in Serbian).

### C - SCIENTIFIC BOOKS (MONOGRAPHS)

#### **Books**

- [152] J. Ignjatović, **M. Ćirić**, Automata and Formal Languages (Automati i formalni jezici), (in Serbian) University of Niš, Faculty of Sciences and Mathematics, Niš, 2016, 356 pages [ISBN 978-86-6275-056-3].
- [153] S. Bogdanović, **M. Ćirić**, Ž. Popović, Semilattice Decompositions of Semigroups, University of Niš, Faculty of Economics, 2011 IV + 321 p. [ISBN 978-86-6139-032-6].
- [154] **M. Ćirić**, T. Petković, S. Bogdanović, Jezici i automati (Languages and Automata), Prosveta, Niš, 2000 IV + 379 p. [ISBN 86-7455-457-1].
- [155] S. Bogdanović, M. Ćirić, Polugrupe [Semigroups], Prosveta, Niš, 1993, IV+287p. [ISBN 86-7455-120-3].

### **Edited books**

- [156] S. Bogdanović, **M. Ćirić**, Ž. Perović (editors), Algebra, Logic and Discrete Mathematics Papers from the conference held at the University of Niš, Niš, April 14 -16, 1995, special issue of FILOMAT (Niš) 9 (3) (1995), vi + 581 pp.
- [157] L. Kočinac, P. Stanimirović, **M. Ćirić**, E. Malkowsky, D. Djurčić (editors), Analysis, Topology, Algebra: Theory and Applications ATA2016, special issue of FILOMAT 31 (10) (2017), 2901–3034.
- [158] M. Ćirić, M. Droste, J.-E. Pin (editors), Algebraic Informatics, 8th International Conference, CAI 2019, Niš, Serbia, June 30 July 4, 2019. Proceedings. LECTURE NOTES IN COMPUTER SCIENCE, vol 11545. Springer, Berlin, Heidelberg, 2019.

#### D - PUBLICATIONS INTENDED FOR PROFESSIONAL COMMUNITIES

#### **Textbooks**

- [159] **M. Ćirić**, J. Ignjatović, Theory of Algorithms, Automata and Languages Book of Problems (in Serbian), University of Niš, Faculty of Sciences and Mathematics, Niš, 2012, viii + 183 p. [ISBN 978-86-83481-87-3]
- [160] D. Stevanović, **M. Ćirić**, S. Simić, V. Baltić, Discrete Mathematics Fundamentals of Combinatorics and Graph Theory (in Serbian), Mathematical Society of Serbia, Beograd, 2007. [ISBN 978-86-81453-68-1]
- [161] M. Tasić, **M. Ćirić**, Fundamentals of Informatics (in Serbian), University of Niš, Faculty of Technology, Leskovac, 2005, vi + 167 p. [ISBN 86-82367-61-0]

#### **E-THESES**

- [162] **M. Ćirić**, Semilattices of Archimedean Semigroups (in Serbian), Magister's thesis, University of Novi Sad, Faculty of Science, 1990.
- [163] **M. Ćirić**, Decompositions of Semigroups and Identities (in Serbian), PhD thesis, University of Belgrade, Faculty of Mathematics, 1991.

#### APPENDIX 2: CONFERENCE TALKS

- [185] M. Ćirić, Algebraic heritage of Mihailo Petrović Alas and Serbian algebraic school, Mihailo Petrović Alas: Life work time, Belgrade, Serbia, 2018.
- [184] S. Stanimirović, M. Ćirić, J. Ignjatović, Algorithms for computing complete deterministic fuzzy automata via invariant fuzzy quasi-orders, Weighted Automata: Theory and Applications WATA 2018, Leipzig, Germany, 2018.
- [183] M. Ćirić, J. Ignjatović, P. Stanimirović, Generalized inverses in the study of reversibility in transition systems, Weighted Automata: Theory and Applications WATA 2018, Leipzig, Germany, 2018.
- [182] N. Damljanović, M. Ćirić, J. Ignjatović, Weakly linear equations and inequalities for matrices over an additively idempotent semiring and applications, 14th Serbian Mathematical Congress SMC14, Kragujevac, Serbia, 2018.
- [181] P. Stanimirović, M. Petković, M. Ćirić, GNN models for solving matrix equations, 5th Conference on Information Theory and Complex Systems TINKOS 2017, Belgrade, Serbia, 2017.
- [180] M. Ćirić, J. Ignjatović, I. Stanković, Positional analysis of multi-mode fuzzy networks, 5th Conference on Information Theory and Complex Systems TINKOS 2017, Belgrade, Serbia, 2017.
- [179] M. Ćirić, J. Ignjatović, Bisimulations for fuzzy relational systems, 7th National Conference on Probability Logics and Applications VLP 2017, Belgrade, Serbia, 2017, pp. 16-19.
- [178] P. Stanimirović, M. Petković, M. Ćirić, RNN solution of linear matrix equation and its applications, Approximation and Computation Theory and Applications ACTA 2017, Belgrade, Serbia, 2017.
- [177] M. Ćirić, J. Ignjatović, I. Stanković, Direct and indirect methods for solving two-mode systems of fuzzy relation equations and inequalities, 9th European Symposium on Computational Intelligence and Mathematics ESCIM 2017, Faro, Portugal, 2017.
- [176] S. Stanimirović, M. Ćirić, J. Ignjatović, An improvement of the determinization of fuzzy finite automata via factorization of fuzzy states, 7th Conference on Algebraic Informatics CAI 2017, Kalamata, Greece, 2017.
- [175] M. Ćirić, J. Ignjatović, Systems of two-sided linear fuzzy relation equations and inequalities and their applications 94. Arbeitstagung Allgemeine Algebra + 5th Novi Sad Algebraic Conference, Novi Sad, Serbia, 2017.
- [174] M. Ćirić, P. Stanimirović, J. Ignjatović, A semigroup-theoretical approach to the study of generalized inverses, 94. Arbeitstagung Allgemeine Algebra + 5th Novi Sad Algebraic Conference, Novi Sad, Serbia, 2017.
- [173] S. Stanimirović, M. Ćirić, J. Ignjatović, Determinization methods for fuzzy automata in complete residuated lattices based on factorizations of fuzzy states,5th International Scientific Conference Analysis, Topology, Algebra: Theory and Applications ATA 2016, Čačak, Serbia, 2016.
- [172] Z. Jančić, I. Micić, J. Ignjatović, M. Ćirić, Regular fuzzy equivalences on social networks, 5th International Scientific Conference Analysis, Topology, Algebra: Theory and Applications ATA 2016, Čačak, Serbia, 2016.
- [171] N. Damljanović, M. Ćirić, J. Ignjatović, I. Micić, Relative residuation and applications, 5th International Scientific Conference Analysis, Topology, Algebra: Theory and Applications ATA 2016, Čačak, Serbia, 2016.
- [170] J. Ignjatović, M. Ćirić, I. Stanković, Fuzzy relational inequalities and equations with one or two unknown fuzzy sets and their applications, 5th International Scientific Conference Analysis, Topology, Algebra: Theory and Applications ATA 2016, Čačak, Serbia, 2016.
- [169] M. Ćirić, P. Stanimirović, J. Ignjatović, Semigroup-theoretical approach to generalized inverses, 5th International Scientific Conference Analysis, Topology, Algebra: Theory and Applications ATA 2016, Čačak, Serbia, 2016.
- [168] M. Ćirić, J. Ignjatović, Fuzzy relations and their use in the study of complex fuzzy systems, The Fourth Conference on Information Theory and Complex Systems TINKOS 2016, Belgrade, Serbia, 2016.
- [167] M. Ćirić, J. Ignjatović, The existence of generalized inverses of fuzzy matrices, 8th European Symposium on Computational Intelligence and Mathematics ESCIM 2016, Sofia, Bulgaria, 2016.
- [166] M. Ćirić, J. Ignjatović, I. Stanković, Regular fuzzy equivalences on multi-mode multi-relational fuzzy networks, The 16th World Congress of the International Fuzzy Systems Association and the 9th Conference of the European Society for Fuzzy Logic and Technology IFSA-EUSFLAT 2015, Gijón, Asturias, Spain, 2015.
- [165] J. Ignjatović, M. Ćirić, I. Stanković, Bisimulations in fuzzy social network analysis, The 16th World Congress of the International Fuzzy Systems Association and the 9th Conference of the European Society for Fuzzy Logic and Technology IFSA-EUSFLAT 2015, Gijón, Asturias, Spain, 2015.

- [164] A. Stamenković, M. Ćirić, S. Jovanović, Weakly linear systems over max-plus algebra, Weighted Automata: Theory and Applications WATA 2014, Leipzig, Germany, 2014.
- [163] J. Ignjatović, M. Ćirić, Z. Jančić, Weighted finite automata with outputs, Weighted Automata: Theory and Applications WATA 2014, Leipzig, Germany, 2014.
- [162] M. Ćirić, J. Ignjatović, Z. Jančić, I. Micić, The children automaton, Weighted Automata: Theory and Applications WATA 2014, Leipzig, Germany, 2014.
- [161] N. Damljanović, M. Ćirić, J. Ignjatović, State reduction for weighted finite automata, Weighted Automata: Theory and Applications WATA 2014, Leipzig, Germany, 2014.
- [160] Z. Jančić, I. Micić, J. Ignjatović, M. Ćirić, Determinization of fuzzy automata by means of the degree of language inclusion, Weighted Automata: Theory and Applications WATA 2014, Leipzig, Germany, 2014.
- [159] I. Micić, Z. Jančić, J. Ignjatović, M. Ćirić, Simultaneous determinization and state reduction for fuzzy automata, Weighted Automata: Theory and Applications WATA 2014, Leipzig, Germany, 2014.
- [158] M. Ćirić, J. Ignjatović, Fundamental Problems of Fuzzy Automata Theory, Quantitative Models: Expressiveness, Analysis, and New Applications, Dagstuhl Seminar 14041, Dagstuhl, Germany, 2014.
- [157] M. Ćirić, J. Ignjatović, Equations and inequalities defined by residuated functions and their applications, 3rd International Conference Contemporary Problems of Mathematics, Mechanics and Informatics –CPMMI 2014, Novi Pazar, Serbia, 2014.
- [156] J. Ignjatović, M. Ćirić, Extreme solutions to inequalities and equations defined by residuated functions, 13th Serbian Mathematical Congress SMC13, Vrnjačka Banja, Serbia, 2014.
- [155] M. Ćirić, J. Ignjatović, Solving equations in residuated semigroups and quantales, 13th Serbian Mathematical Congress SMC13, Vrnjačka Banja, Serbia, 2014.
- [154] N. Damljanović, M. Ćirić, J. Ignjatović, Residuation in algebras of relations and matrices, 13th Serbian Mathematical Congress SMC13, Vrnjačka Banja, Serbia, 2014.
- [153] I. Micić, J. Ignjatović, M. Ćirić, Algorithms for computing the greatest simulations and bisimulations for fuzzy automata, 13th Serbian Mathematical Congress SMC13, Vrnjačka Banja, Serbia, 2014.
- [152] Z. Jančić, I. Micić, J. Ignjatović, M. Ćirić, Algorithms for determinization of fuzzy and weighted automata, 13th Serbian Mathematical Congress SMC13, Vrnjačka Banja, Serbia, 2014.
- [151] I.Stanković, J. Ignjatović, M. Ćirić, Application of fuzzy relation equations in data analysis, 13th Serbian Mathematical Congress SMC13, Vrnjačka Banja, Serbia, 2014.
- [150] M. Milanović, M. Ćirić, J. Ignjatović, A. Stamenković, State reduction for fuzzy automata with outputs, 13th Serbian Mathematical Congress SMC13, Vrnjačka Banja, Serbia, 2014.
- [149] V. Ilić, M. Ćirić, M. Stanković, On the SCFG cross-moments computation using the moment generating function, 3rd National Conference on Probability Logics and Applications VLP 2013, Belgrade, Serbia, 2013, pp. 18-19.
- [148] Z. Jančić, I. Jančić, J. Ignjatović, M. Ćirić, Fuzzy and weighted automata: Canonization methods, Weighted Automata: Theory and Applications WATA 2012, Dresden, Germany, 2012, p. 58.
- [147] I. Jančić, Z. Jančić, J. Ignjatović, M. Ćirić, Fuzzy automata: Determinization using simulations Weighted Automata: Theory and Applications WATA 2012, Dresden, Germany, 2012, p. 57.
- [146] J. Ignjatović, M. Ćirić, V. Simović, Subsystems of fuzzy transition systems, Weighted Automata: Theory and Applications WATA 2012, Dresden, Germany, 2012, pp. 55–56.
- [145] M. Ćirić, J. Ignjatović, Fuzziness in Automata Theory: Why? How? Weighted Automata: Theory and Applications WATA 2012, Dresden, Germany, 2012, pp. 40–42.
- [144] N. Damljanović, M. Ćirić, J. Ignjatović, Bisimulations for weighted automata, Weighted Automata: Theory and Applications WATA 2012, Dresden, Germany, 2012, pp. 44–45.
- [143] J. Ignjatović, M. Ćirić, B. De Baets, Equations and inequalities deffined by residuated functions, FSTA 2012 Eleventh International Conference on Fuzzy Set Theory and Applications, Liptovský Ján, Slovak Republic, 2012.
- [142] M. Ćirić, J. Ignjatović, B. Šešelja, A. Tepavčević, Eigen fuzzy sets equations and related inequalities, FSTA 2012 Eleventh International Conference on Fuzzy Set Theory and Applications, Liptovský Ján, Slovak Republic, 2012.
- [141] M. Ćirić, J. Ignjatović, N. Damljanović, Fuzzy relation equations and fuzzy automata, FSTA 2012 Eleventh International Conference on Fuzzy Set Theory and Applications, Liptovský Ján, Slovak Republic, 2012.
- [140] I. Stanković, J. Ignjatović, M. Ćirić, Boolean relation equations in data analysis, 9th IEEE International Symposium on Intelligent Systems and Informatics SISY 2011, Subotica, Serbia, 2011
- [139] J. Ignjatović, M. Ćirić, N. Damljanović, Weakly linear systems of fuzzy relation inequalities and equations, LINZ 2011 32nd Seminar on Fuzzy Set Theory, Linz, Austria, 2011.

- [138] M. Ćirić, J. Ignjatović, A. Stamenković, Different models of fuzzy automata and their applications, LINZ 2011 32nd Seminar on Fuzzy Set Theory, Linz, Austria, 2011.
- [137] N. Damljanović, M. Ćirić, J. Ignjatović, Multivalued relations over lattices and semirings and their applications, LINZ 2011 32nd Seminar on Fuzzy Set Theory, Linz, Austria, 2011.
- [136] S. Bogdanović, Ž. Popović, M. Ćirić, Semilattices of Archimedean semigroups, International Conference on Algebra ICA 2010, Gadjah Mada University, Yogijakarta, Indonesia, 2010.
- [135] Z. Jančić, J. Ignjatović, M. Ćirić, Fuzzy and weighted automata: determinization methods, Weighted Automata: Theory and Applications WATA 2010, Leipzig, Germany, 2010.
- [134] I. Jančić, J. Ignjatović, M. Ćirić, Fuzzy automata: weak bisimulations, Weighted Automata: Theory and Applications WATA 2010, Leipzig, Germany, 2010.
- [133] N. Damljanović, M. Ćirić, J. Ignjatović, Fuzzy automata: equivalence and bisimulation, Weighted Automata: Theory and Applications WATA 2010, Leipzig, Germany, 2010.
- [132] A. Stamenković, M. Ćirić, J. Ignjatović, Alternate reductions of fuzzy automata, Weighted Automata: Theory and Applications WATA 2010, Leipzig, Germany, 2010.
- [131] M. Ćirić, M. Droste, J. Ignjatović, H. Vogler, Determinization of weighted finite automata over strong bimonoids (Keynote lecture), Weighted Automata: Theory and Applications WATA 2010, Leipzig, Germany, 2010.
- [130] N. Damljanović, M. Ćirić, J. Ignjatović, Weighted and fuzzy automata: Bisimulation and structural equivalence, Workshop on Automata and Logic, Dresden, Germany, 2009.
- [129] J. Ignjatović, M. Ćirić, M. Droste, H. Vogler, Determinization of weighted finite automata over strong bimonoids, Workshop on Automata and Logic, Dresden, Germany, 2009.
- [128] Z. Jančić, J. Ignjatović, M. Ćirić, Fuzzy and weighted automata: Determinization methods, The 3rd Novi Sad Algebraic Conference NSAC 2009, Novi Sad, 2009.
- [127] I. Jančić, J. Ignjatović, M. Ćirić, Fuzzy network analysis: Regular fuzzy equivalences and bisimulation, The 3rd Novi Sad Algebraic Conference NSAC 2009, Novi Sad, 2009.
- [126] N. Damljanović, M. Ćirić, J. Ignjatović, M. Bašić, Fuzzy and weighted automata: Bisimulation and structural equivalence, The 3rd Novi Sad Algebraic Conference NSAC 2009, Novi Sad, 2009.
- [125] A. Stamenković, M. Ćirić, J. Ignjatović, T. Petković, Fuzzy automata: State reduction methods, The 3rd Novi Sad Algebraic Conference NSAC 2009, Novi Sad, 2009.
- [124] N. Damljanović, M. Ćirić, S. Bogdanović, Subdirect decompositions of idempotent semirings, 12th Congress of Serbian Matematicians, Novi Sad, Serbia, 2008.
- [123] Ž. Popović, S. Bogdanović, M. Ćirić, Semilattice of hereditary weakly left Archimedean semigroups, 12th Congress of Serbian Matematicians, Novi Sad, Serbia, 2008.
- [122] J. Ignjatović, M. Ćirić, T. Petković, Relationships between FFA-recognizability and DFA-recognizability of fuzzy languages, Weighted Automata: Theory and Applications WATA 2008, Dresden, Germany, 2008.
- [121] M. Ćirić, A. Stamenković, J. Ignjatović, T. Petković, State reduction of fuzzy automata, Weighted Automata: Theory and Applications WATA 2008, Dresden, Germany, 2008.
- [120] M. Ćirić J. Ignjatović, Algebraic theory of lattice-valued fuzzy languages and automata, 29th Linz Seminar on Fuzzy Set Theory LINZ 2008, Foundations of Lattice-Valued Mathematics with Applications to Algebra and Topology, Linz, Austria, 2008.
- [119] M. Ćirić, A. Stamenković, J. Ignjatović, T. Petković, Factorization of fuzzy automata, Fundamentals of Computational Theory FCT 2007, Budapest, Hungary, 2007.
- [118] J. Ignjatović M. Ćirić, Algebraic theory of fuzzy languages and automata, Dani Logike, Novi Sad, 2007
- [117] J. Ignjatović, M. Ćirić, Myhill-Nerode theory for fuzzy languages and automata, Algebraic Theory of Automata and Logic, Satellite Workshop of the Conference: Computer Science Logic 2006, Szeged, Hungary, 2006.
- [116] T. Petković, M. Ćirić, S. Bogdanović, On varieties of semigroups and unary algebras, International Conference on Semigroups and Languages, Lisboa, Portugal, 2005.
- [115] S. Bogdanović, M. Ćirić, T. Petković, A contribution to the theory of unary algebras, International Sympo-sium on Recent Advances in Mathematics and its Applications ISRAMA-2005, Calcutta, India, 2005.
- [114] M. Ćirić, J. Ignjatović, S. Bogdanović, Fuzzy equivalence relations and fuzzy partitions, International Symposium on Recent Advances in Mathematics and its Applications ISRAMA-2005, Calcutta, India, 2005.
- [113] M. Ćirić, J. Ignjatović, S. Bogdanović, Fuzzy equivalence relations and their equivalence classes, Novi Sad Algebraic Conference NSAC05, Novi Sad, 2005.
- [112] M. Ćirić, J. Ignjatović, S. Bogdanović, Fuzzy relations and their applications, Workshop on Mathematical Foundations of Computer Science, Palić, 2005.

- [111] M. Ćirić, Curricula development at Faculty of Natural Sciences and Mathematics, University of Niš, Workshop of Computer Education Implementation and Future Trends, Skopje, FYR Macedonia, 2004.
- [110] M. Ćirić, Multimedia in teaching of mathematics and informatics, Symposium on Innovation of Computer Science Curriculum in Higher Education, Athens, Greece, 2004.
- [109] M. Ćirić, G. Kljajić, TeX and PDF in education, Workshop on Teaching Methods in Computer Science Courses, Skopje, FYR Macedonia, 2003.
- [108] M. Ćirić, G. Kljajić, TeX and PDF in education, Workshop on Innovations in Teaching of Computer Science Courses, Niš, Yugoslavia, 2003.
- [107] T. Petković, M. Ćirić, S. Bogdanović, Words and forbidden subwords, WORDS 2003 4th International Conference on Words, Turku, Finland, 2003
- [106] M. Ćirić, P. Krtolica, Innovations in teaching methods at Faculty of Natural Sciences and Mathematics, University of Niš, Symposium on Innovation of Computer Science Curriculum in Higher Education, Athens, Greece, 2003.
- [105] Ž. Popović, S. Bogdanović, M. Ćirić, Some decompositions of completely pi-regular semigroups, Novi Sad Algebraic Conference NSAC'03, Novi Sad, Yugoslavia, 2003.
- [104] M. Ćirić, S. Bogdanović, T. Petković, Varieties, pseudovarieties and generalized varieties of algebras, Novi Sad Algebraic Conference NSAC'03, Novi Sad, Yugoslavia, 2003.
- [103] M. Ćirić, Remodeling of curricula in informatics at Faculty of Natural Science and Mathematics, Workshop on Computer Science Education, Skopje, FRY Macedonia, and Niš, Yugoslavia, 2002.
- [102] T. Petković, M. Ćirić, S. Bogdanović, Characteristic semigroups of directable automata, DLT 2002 Developments in Language Theory, Kyoto, Japan, 2002.
- [101] S. Bogdanović, M. Ćirić, Regularity conditions and decompositions of semigroups (Keynote lecture), ICM-2002 Satellite Conference in Algebra and Related Topics, Hong Kong, China, 2002.
- [100] M. Ćirić, S. Bogdanović, T. Petković, Eilenberg type correspondences between automata and semigroups, ICM-2002 Satellite Conference in Algebra and Related Topics, Hong Kong, China, 2002.
- [99] Ž. Popović, S. Bogdanović, M. Ćirić, Minimal paths in semigroups, 6th International Conference on Discrete Mathematics and Applications, Blagoevgrad, Bulgaria, 2001.
- [98] J. Kovačević, M. Ćirić, T. Petković, S. Bogdanović, Classes of automata defined by quasi-orders on a free monoid, 6th International Conference on Discrete Mathematics and Applications, Blagoevgrad, Bulgaria, 2001.
- [97] Ž. Popović, S. Bogdanović, M. Ćirić, Some decompositions of regular semigroups, FILOMAT 2001, Niš, Yugoslavia, 2001.
- [96] J. Kovačević, M. Ćirić, T. Petković, S. Bogdanović, Families of languages consisting of directing words of automata, FILOMAT 2001, Niš, Yugoslavia, 2001.
- [95] M. Ćirić, S. Bogdanović, T. Petković, Generalized varieties, varieties and pseudovarieties of automata, Workshop on Automata and Formal Languages, Szeged, Hungary, 2001.
- [94] M. Ćirić, S. Bogdanović, Niš school for semigroups and automata (Keynote lecture), New Accomplishments in Mathematics, Banja Luka, Republic of Srpska, 2000.
- [93] A. Stamenković, S. Bogdanović, M. Ćirić, Primitive idempotents in semigroups, Colloquium on Semigroups, Szeged, Hungary, 2000.
- [92] Ž. Popović, S. Bogdanović, M. Ćirić, Regularity and Archimedeaness of semidirect products of semigroups, Colloquium on Semigroups, Szeged, Hungary, 2000.
- [91] T. Petković, M. Ćirić, S. Bogdanović, Variable varieties of semigroups, Colloquium on Semigroups, Szeged, Hungary, 2000.
- [90] J. Kovačević, M. Ćirić, S. Bogdanović, T. Petković, Semigroup theoretical methods in automata theory, Colloquium on Semigroups, Szeged, Hungary, 2000.
- [89] M. Ćirić, S. Bogdanović, P. Stanimirović, T. Petković, Regularity equations and conditions on semigroups, Colloquium on Semigroups, Szeged, Hungary, 2000.
- [88] Ž. Popović, S. Bogdanović, M. Ćirić, Semidirect products of Archimedean semigroups, PRIM 2000 -- 14th Conference on Applied Mathematics, Palić, Yugoslavia, 2000.
- [87] M. Mitrović, S. Bogdanović, M. Ćirić, Iteration of Matrix Decompositions, Third International Colloquium on Words, Languages and Combinatorics, Kyoto, Japan, 2000.
- [86] Ž. Popović, S. Bogdanović, M. Ćirić, T. Petković, On finite generalized directable automata, Third International Colloquium on Words, Languages and Combinatorics, Kyoto, Japan, 2000.
- [85] T. Petković, M. Ćirić, S. Bogdanović, Nonregular varieties of automata, Third International Colloquium on Words, Languages and Combinatorics, Kyoto, Japan, 2000.

- [84] M. Ćirić, T. Petković, S. Bogdanović, Syntactic and semantic properties of semigroup identities, Third International Colloquium on Words, Languages and Combinatorics, Kyoto, Japan, 2000.
- [83] N. Stevanovic, S. Bogdanović and M. Ćirić, Semigroups in which any proper ideal is sn-simple, Seminar in Algebra and Logic in honor of 65th birthday of Professor S. Milic, Novi Sad, Yugoslavia, 1999.
- [82] A. Stamenković, S. Bogdanović and M. Ćirić, Primitive idempotents in semigroups, Seminar in Algebra and Logic in honor of 65th birthday of Professor S. Milic, Novi Sad, Yugoslavia, 1999.
- [81] M. Mitrović, S. Bogdanović and M. Ćirić, Regular subsets and local submonoids of semigroups, Seminar in Algebra and Logic in honor of 65th birthday of Professor S. Milic, Novi Sad, Yugoslavia, 1999.
- [80] Ž. Popović, S. Bogdanović, T. Petković and M. Ćirić, The least P-congruences on automata, Seminar in Algebra and Logic in honor of 65th birthday of Professor S. Milic, Novi Sad, Yugoslavia, 1999.
- [79] T. Petković, M. Ćirić and S. Bogdanović, Correspondences between automata and semigroups, Seminar in Algebra and Logic in honor of 65th birthday of Professor S. Milic, Novi Sad, Yugoslavia, 1999.
- [78] M. Ćirić, S. Bogdanović, T. Petković and P. Stanimirović, Equations and regularity conditions in semigroups (Keynote lecture), Seminar in Algebra and Logic in honor of 65th birthday of Professor S. Milic, Novi Sad, Yugoslavia, 1999.
- [77] M. Ćirić, S. Bogdanović and T. Petković, Automata and their monogenic subautomata, 9th Conference on Automata and Formal Languages AFL 99, Vasszecseny, Hungary, 1999.
- [76] T. Petković, S. Bogdanović and M. Ćirić, Semigroups assigned to directable automata, 9th Conference on Automata and Formal Languages AFL 99, Vasszecseny, Hungary, 1999.
- [75] M. Bogdanović, S. Bogdanović, T. Petković and M. Ćirić, Directable automata and their necks, 9th Conference on Automata and Formal Languages AFL 99, Vasszecseny, Hungary, 1999.
- [74] J. Kovačević, M. Ćirić, S. Bogdanović and T. Petković, Automata and their reversible states, 9th Conference on Automata and Formal Languages AFL 99, Vasszecseny, Hungary, 1999.
- [73] Ž. Popović, T. Petković, M. Ćirić and S. Bogdanović, On finite trapped automata, 9th Conference on Automata and Formal Languages AFL 99, Vasszecseny, Hungary, 1999.
- [72] M. Ćirić, S. Bogdanović, J. Kovačević and T. Petković, Some decompositions of semigroups unary algebras and automata, International Conference of Semigroups, Braga, Portugal, 1999.
- [71] M. Mitrović, S. Bogdanović and M. Ćirić, Semigroups whose local submonoids have certain properties, International Conference of Semigroups, Braga, Portugal, 1999.
- [70] Ž. Popović, M. Ćirić and S. Bogdanović, Subdirect decompositions preserving some other decompositions, International Conference of Semigroups, Braga, Portugal, 1999.
- [69] T. Petković, M. Ćirić and S. Bogdanović, Semigroups, automata and congruences on free semigroups, International Conference of Semigroups, Braga, Portugal, 1999.
- [68] J. Kovačević, M. Ćirić, S. Bogdanović, Decompositions of semigroups, automata and quasi-ordered sets, Algebra and Logic, Novi Sad, Yugoslavia, 1998.
- [67] Ž. Popović, M. Ćirić, S. Bogdanović, Congruences and subdirect decompositions of regular semigroups, Algebra and Logic, Novi Sad, Yugoslavia, 1998.
- [66] M. Bogdanović, M. Ćirić, S. Bogdanović, The structure of power automata, Algebra and Logic, Novi Sad, Yugoslavia, 1998.
- [65] P. Stanimirović, S. Bogdanović, M. Ćirić, Adjoint mappings and inverses of matrices, Algebra and Logic, Novi Sad, Yugoslavia, 1998.
- [64] N. Stevanović, S. Bogdanović, M. Ćirić, Semigroups whose proper ideals have certain properties, Algebra and Logic, Novi Sad, Yugoslavia, 1998.
- [63] M. Mitrović, S. Bogdanović, M. Ćirić, Locally right pi-inverse semigroups, Algebra and Logic, Novi Sad, Yugoslavia, 1998.
- [62] S. Bogdanović, B. Imreh, M. Ćirić, T. Petković, On directable automata (Keynote lecture), Algebra and Logic, Novi Sad, Yugoslavia, 1998.
- [61] M. Ćirić, S. Bogdanović, T. Petković, Automata having certain local properties, Workshop on General Algebra and Discrete Mathematics, Potsdam, Germany, 1998.
- [60] M. Ćirić, Atomic decompositions of algebras and structures, International Congress of Mathematicians, Berlin, Germany, 1998.
- [58] M. Ćirić, S. Bogdanović, The structure of the weak congruence lattice, Conference on Lattices and Universal Algebra, Szeged, Hungary, 1998.
- [58] S. Bogdanović, T. Petković, M. Ćirić, Idempotent compositions of algebras, Conference on Lattices and Universal Algebra, Szeged, Hungary, 1998.

- [57] M. Ćirić, Automata, algebras and semigroups (Keynote Lecture), Conference of PhD Students in Computer Science, Szeged, Hungary, 1998.
- [56] Ž. Popović, S. Bogdanović, M. Ćirić, Subdirect decompositions of semigroups: A constructive approach, PRIM '98 13th Conference on Applied Mathematics, Igalo, Yugoslavia, 1998.
- [55] S. Bogdanović, M. Ćirić, T. Petković, Generalized directable automata, PRIM '98 13th Conference on Applied Mathematics, Igalo, Yugoslavia, 1998.
- [54] T. Petković, S. Bogdanović, M. Ćirić, Regular varieties of automata, PRIM '98 13th Conference on Applied Mathematics, Igalo, Yugoslavia, 1998.
- [53] M. Ćirić, T. Petković, S. Bogdanović, Subdirect decompositions of automata, PRIM '98 13th Conference on Applied Mathematics, Igalo, Yugoslavia, 1998.
- [52] M. Ćirić, S. Bogdanović, J. Kovačević, Some decompositions of semigroups and automata as decompositions of quasi-ordered sets, PRIM '97 12th Conference on Applied Mathematics, Palić, Yugoslavia, 1997.
- [51] M. Ćirić, T. Petković, S. Bogdanović, The structure of automata and their transition semigroups, PRIM '97 12th Conference on Applied Mathematics, Palić, Yugoslavia, 1997.
- [50] S. Bogdanović, Ž. Popović, M. Ćirić, Some graphs associated to semigroups, PRIM '97 12th Conference on Applied Mathematics, Palić, Yugoslavia, 1997.
- [49] S. Bogdanović, M. Ćirić, T. Petković, The lattice of subautomata of an automaton, LIRA Logic and Computer Science, Novi Sad, Yugoslavia, 1997
- [48] S. Bogdanović, M. Ćirić, T. Petković, Lattices, semigroups and automata (Keynote lecture), International Algebraic Conference dedicated to memory of L. N. Gluskin, Slovyans'k, Ukraine, 1997.
- [47] S. Bogdanović, M. Ćirić, Semilattice-matrix decompositions of semigroups (Keynote lecture), International Congress in Algebras and Combinatorics, Hong Kong, 1997.
- [46] M. Ćirić, S. Bogdanović, Semigroups which are not divided by a five-element Brandt semigroup, Semigroups and Applications, St Andrews, Scotland, United Kingdom, 1997.
- [45] T. Petković, M. Ćirić, S. Bogdanović, Transition semigroups of trapped automata, Semigroups and Applications, St Andrews, Scotland, United Kingdom, 1997.
- [44] Ž. Popović, S. Bogdanović, M. Ćirić, Certain congruences on completely Archimedean semigroups, Semigroups and Applications, St Andrews, Scotland, United Kingdom, 1997.
- [43] M. Mitrović, S. Bogdanović, M. Ćirić, Semilattices of Archimedean semigroups and pi-regular semigroups, Semigroups and Applications, St Andrews, Scotland, United Kingdom, 1997.
- [42] S. Bogdanović, M. Ćirić, Atomic decompositions of semigroups and automata, Symposium: Fifty years of the Math. Inst. SANU, Beograd, Yugoslavia, 1996.
- [41] S. Bogdanović, M. Ćirić, T. Petković, Boolean subalgebras of the lattice of subautomata, The First Congres of Mathematicians of Macedonia, Ohrid, FRY Macedonia, 1996.
- [40] S. Bogdanović, M. Ćirić, B. Stamenković, Primitive E-inversive semigroups, 2nd Mathematical Conference in Priština, Priština, Yugoslavia, 1996.
- [39] S. Bogdanović, M. Ćirić, Posets of congruences and some their applications, 2nd Mathematical Conference in Priština, Priština, Yugoslavia, 1996.
- [38] S. Bogdanović, M. Ćirić, M. Mitrović, Semilattices of hereditary Ln-Archimedean semigroups, 2nd Mathematical Conference in Priština, Priština, Yugoslavia, 1996.
- [37] M. Ćirić, S. Bogdanović, J. Kovačević, Double ideals of quasi-ordered sets and their applications, 2nd Mathematical Conference in Priština, Priština, Yugoslavia, 1996.
- [36] M. Ćirić, S. Bogdanović, M. Bogdanović, Left 0-Archimedean semigroups, 2nd Mathematical Conference in Priština, Priština, Yugoslavia, 1996.
- [35] S. Bogdanović, M. Ćirić, Ž. Popović, Decompositions of semigroups viewed from radicals of certain relations, 2nd Mathematical Conference in Priština, Priština, Yugoslavia, 1996.
- [34] M. Ćirić, S. Bogdanović, T. Petković, The lattice of positive quasi-orders on an automaton, 2nd Mathematical Conference in Priština, Priština, Yugoslavia, 1996.
- [33] S. Bogdanović, M. Ćirić, Ž. Popović, On semilattice decompositions of semigroups, Conference on Semigroups and Their Applications, Prague, Czech Republic, 1996.
- [32] S. Bogdanović, M. Ćirić, T. Petković, Semigroup identities and its recognition by automata, Conference on Semigroups and Their Applications, Prague, Czech Republic, 1996.
- [31] M. Ćirić, S. Bogdanović, Direct sum decompositions of automata, Conference on Semigroups and Their Applications, Prague, Czech Republic, 1996.

- [30] M. Ćirić, S. Bogdanović, Normal band compositions of semigroups (Keynote lecture), International Memorial Conference "D. S. Mitrinović", Niš, Yugoslavia, 1996.
- [29] S. Bogdanović, M. Ćirić, T. Petković, Sums and limits of generalized direct families of algebras, Conference on General Algebra and Discrete Mathematics (in honour of H. J. Hoehnke), Potsdam, Germany, 1996
- [28] M. Ćirić, S. Bogdanović, Ž. Popović, Semilattice decompositions of semigroups and its applications, PRIM '96 11th Conference on Applied Mathematics, Budva, Yugoslavia, 1996.
- [27] M. Ćirić, S. Bogdanović, T. Petković, Recognizable relations on a free semigroup, PRIM '96 11th Conference on Applied Mathematics, Budva, Yugoslavia, 1996.
- [26] S. Bogdanović, M. Ćirić, The lattice of subautomata of an automaton, PRIM '96 –11th Conference on Applied Mathematics, Budva, Yugoslavia, 1996.
- [25] S. Bogdanović, M. Ćirić, Decompositions of semigroups and automata viewed from Boolean algebras, Kurepa's Symposium, Beograd, Yugoslavia, 1996.
- [24] S. Bogdanović, M. Ćirić, Quasi-orders and semilattice decompositions of semigroups (Keynote lecture), International Conference in Semigroups and Their Related Topics, Kunming, Yunnan, China, 1995.
- [23] S. Bogdanović, M. Ćirić, M. Mitrović, Semilattices of Ln-Archimedean semigroups, 9th Congress of Yugoslav Mathematicians, Petrovac, Yugoslavia, 1995.
- [22] S. Bogdanović, M. Ćirić, T. Petković, Radicals in semigroups and rings (Keynote lecture), 9th Congress of Yugoslav Mathematicians, Petrovac, Yugoslavia, 1995.
- [21] M. Ćirić, S. Bogdanović, T. Petković, A generalization of direct limits of algebras, International Conference on Algebra, Logic and Discrete Mathematics, Niš, Yugoslavia, 1995.
- [20] S. Bogdanović, M. Ćirić, M. Mitrović, Semigroups whose subsemigroups are semilattices of Archimedean semigroups, International Conference on Algebra, Logic and Discrete Mathematics, Niš, Yugoslavia, 1995.
- [19] S. Bogdanović, M. Ćirić, Semilattices of weakly left Archimedean semigroups, International Conference on Algebra, Logic and Discrete Mathematics, Niš, Yugoslavia, 1995.
- [18] M. Ćirić, S. Bogdanović, Theory of greatest decompositions of semigroups (Keynote lecture), International Conference on Algebra, Logic and Discrete Mathematics, Niš, Yugoslavia, 1995.
- [17] S. Bogdanović, M. Ćirić, Orthogonal sums of semigroups, Colloquium on Semigroups, Szeged, Hungary, 1994.
- [16] M. Ćirić, S. Bogdanović, Band compositions of semigroups, Colloquium on Semigroups, Szeged, Hungary, 1994.
- [15] M. Ćirić, S. Bogdanović, Theory of semigroups and computer science, Filomat 94, Niš, Yugoslavia, 1994.
- [14] S. Bogdanović, M. Ćirić, T. Petković, Generalized regularity in semigroups and rings (Keynote lecture), Mathematical Conference in Priština, Priština, Yugoslavia, 1994.
- [13] M. Ćirić, S. Bogdanović, Subdirect products of a band and a group, Algebraic structures and applications, Beograd, Yugoslavia, 1994.
- [12] S. Bogdanović, M. Ćirić, Theory of decompositions of semigroups with zero (Keynote lecture), Algebraic structures and applications, Beograd, Yugoslavia, 1994.
- [11] S. Bogdanović, M. Ćirić, The theory of semilattice decompositions of semigroups (Keynote lecture), International Conference on Semigroups and Algebras of Computer Languages, Qingdao, China, 1993.
- [10] M. Ćirić, S. Bogdanović, Decompositions of semigroups induced by identities, International Conference of Algebra, Plovdiv, Bulgaria, 1992.
- [9] S. Bogdanović, M. Ćirić, The theory of semilattice decompositions of semigroups, International Conference of Algebra, Plovdiv, Bulgaria, 1992.
- [8] M. Ćirić, S. Bogdanović, Semilattice decompositions of semigroups and their applications, Filomat 92, Niš, Yugoslavia, 1992.
- [7] S. Bogdanović, M. Ćirić, Decompositions of semigroups, (Keynote lecture), Filomat 20, Niš, Yugoslavia, 1991.
- [6] S. Bogdanović, M. Ćirić, Tight semigroups, Algebra and Logic, Maribor, Yugoslavia, 1989.
- [5] S. Bogdanović, M. Ćirić, Un+1-semigroups, Second Internatinal Mathematical Mini Conference, Budapest, Hungary, 1988.
- [4] S. Bogdanović, M. Ćirić, Un+1-semigroups, Colloquium on Semigroups, Wien, Austria, 1988.
- [3] M. Ćirić, C-(m,n)-ideal semigroups, Colloquium on Semigroups, Szeged, Hungary, 1987.
- [2] M. Ćirić, Construction of c-(m,n)-ideal semigroups, Algebra and Logic, Sarajevo, Yugoslavia, 1987.
- [1] M. Ćirić, C-(m,n)-ideal semigroups, Algebra and Logic, Cetinje, Yugoslavia, 1986.