

# Miroslav Ciric

## List of Publications by Year in descending order

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80  
papers

1,122  
citations

430442

18  
h-index

454577

30  
g-index

81  
all docs

81  
docs citations

81  
times ranked

223  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Bisimulations for fuzzy automata. Fuzzy Sets and Systems, 2012, 186, 100-139.  | 1.6 | 90        |
| 2  | Determinization of fuzzy automata with membership values in complete residuated lattices. Information Sciences, 2008, 178, 164-180.            | 4.0 | 86        |
| 3  | Myhill's Nerode type theory for fuzzy languages and automata. Fuzzy Sets and Systems, 2010, 161, 1288-1324.                                    | 1.6 | 71        |
| 4  | Computation of the greatest simulations and bisimulations between fuzzy automata. Fuzzy Sets and Systems, 2012, 208, 22-42.                    | 1.6 | 69        |
| 5  | Fuzzy relation equations and reduction of fuzzy automata. Journal of Computer and System Sciences, 2010, 76, 609-633.                          | 0.9 | 56        |
| 6  | Fuzzy equivalence relations and their equivalence classes. Fuzzy Sets and Systems, 2007, 158, 1295-1313.                                       | 1.6 | 47        |
| 7  | On the greatest solutions to weakly linear systems of fuzzy relation inequalities and equations. Fuzzy Sets and Systems, 2010, 161, 3081-3113. | 1.6 | 40        |
| 8  | Determinization of weighted finite automata over strong bimonoids. Information Sciences, 2010, 180, 3497-3520.                                 | 4.0 | 39        |
| 9  | Fuzzy relation equations and subsystems of fuzzy transition systems. Knowledge-Based Systems, 2013, 38, 48-61.                                 | 4.0 | 34        |
| 10 | Uniform fuzzy relations and fuzzy functions. Fuzzy Sets and Systems, 2009, 160, 1054-1081.   | 1.6 | 31        |
| 11 | Bisimulations for weighted automata over an additively idempotent semiring. Theoretical Computer Science, 2014, 534, 86-100.                   | 0.5 | 31        |
| 12 | Reduction of fuzzy automata by means of fuzzy quasi-orders. Information Sciences, 2014, 275, 168-198.  | 4.0 | 28        |
| 13 | Outer and (b,c) inverses of tensors. Linear and Multilinear Algebra, 2020, 68, 940-971.  | 0.5 | 28        |
| 14 | Weakly linear systems of fuzzy relation inequalities and their applications: A brief survey. Filomat, 2012, 26, 207-241.                       | 0.2 | 26        |
| 15 | Fuzzy homomorphisms of algebras. Fuzzy Sets and Systems, 2009, 160, 2345-2365.   | 1.6 | 25        |
| 16 | Formal power series and regular operations on fuzzy languages. Information Sciences, 2010, 180, 1104-1120.                                     | 4.0 | 24        |
| 17 | An improved algorithm for determinization of weighted and fuzzy automata. Information Sciences, 2011, 181, 1358-1368.                          | 4.0 | 23        |
| 18 | Fuzzy relational inequalities and equations, fuzzy quasi-orders, closures and openings of fuzzy sets. Fuzzy Sets and Systems, 2015, 260, 1-24. | 1.6 | 23        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Determinization of Fuzzy Automata by Means of the Degrees of Language Inclusion. IEEE Transactions on Fuzzy Systems, 2015, 23, 2144-2153.            | 6.5 | 20        |
| 20 | Construction of fuzzy automata from fuzzy regular expressions. Fuzzy Sets and Systems, 2012, 199, 1-27.  | 1.6 | 19        |
| 21 | Conditions for Existence, Representations, and Computation of Matrix Generalized Inverses. Complexity, 2017, 2017, 1-27.                             | 0.9 | 19        |
| 22 | Weakly linear systems of fuzzy relation inequalities: The heterogeneous case. Fuzzy Sets and Systems, 2012, 199, 64-91.                              | 1.6 | 18        |
| 23 | Brzozowski type determinization for fuzzy automata. Fuzzy Sets and Systems, 2014, 249, 73-82.  | 1.6 | 17        |
| 24 | Approximate Bisimulations for Fuzzy Automata Over Complete Heyting Algebras. IEEE Transactions on Fuzzy Systems, 2022, 30, 437-447.                  | 6.5 | 16        |
| 25 | Decompositions of semigroups induced by identities. Semigroup Forum, 1993, 46, 329-346.  | 0.3 | 15        |
| 26 | Semilattice decompositions of semigroups. Semigroup Forum, 1996, 52, 119-132.  | 0.3 | 14        |
| 27 | Nondeterministic automata: Equivalence, bisimulations, and uniform relations. Information Sciences, 2014, 261, 185-218.                              | 4.0 | 14        |
| 28 | Factorization of Fuzzy Automata. Lecture Notes in Computer Science, 2007, , 213-225.   | 1.0 | 14        |
| 29 | Further improvements of determinization methods for fuzzy finite automata. Fuzzy Sets and Systems, 2016, 301, 79-102.                                | 1.6 | 13        |
| 30 | Representations and symbolic computation of generalized inverses over fields. Applied Mathematics and Computation, 2021, 406, 126287.                | 1.4 | 12        |
| 31 | Fuzzy relation equations and inequalities with two unknowns and their applications. Fuzzy Sets and Systems, 2017, 322, 86-105.                       | 1.6 | 11        |
| 32 | Adjoint Mappings and Inverses of Matrices. Algebra Colloquium, 2006, 13, 421-432.  | 0.1 | 9         |
| 33 | Ranks of fuzzy matrices. Applications in state reduction of fuzzy automata. Fuzzy Sets and Systems, 2018, 333, 124-139.                              | 1.6 | 9         |
| 34 | Determinization of fuzzy automata by factorizations of fuzzy states and right invariant fuzzy quasi-orders. Information Sciences, 2018, 469, 79-100. | 4.0 | 9         |
| 35 | Congruence openings of additive Green's relations on $\mathcal{A}$ -semiring. Semigroup Forum, 2011, 82, 437-454.                                    | 0.3 | 8         |
| 36 | Improved algorithms for computing the greatest right and left invariant Boolean matrices and their application. Filomat, 2019, 33, 2809-2831.        | 0.2 | 8         |

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|----|---|-----|-----------|
| 37 | Orthogonal sums of semigroups. Israel Journal of Mathematics, 1995, 90, 423-428.  | 0.4 | 6         |
| 38 | Characterizations and representations of outer inverse for matrices over a ring. Linear and Multilinear Algebra, 2021, 69, 155-176. | 0.5 | 6         |
| 39 | Retractive nil-extensions of regular semigroups, II. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1992, 68, .  | 0.3 | 6         |
| 40 | Bisimulations in fuzzy social network analysis. , 0, , .  |     | 6         |
| 41 | Semilattice Decompositions of Semigroups Revisited. Semigroup Forum, 2000, 61, 263-276.   | 0.3 | 5         |
| 42 | Retractive nil-extensions of regular semigroups, I. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1992, 68, .   | 0.3 | 5         |
| 43 | The lattice of positive quasi-orders on a semigroup. Israel Journal of Mathematics, 1997, 98, 157-166.                              | 0.4 | 4         |
| 44 | The Five-Element Brandt Semigroup as a Forbidden Divisor. Semigroup Forum, 2000, 61, 363-372.                                       | 0.3 | 4         |
| 45 | Unary algebras, semigroups and congruences on free semigroups. Theoretical Computer Science, 2004, 324, 87-105.                     | 0.5 | 4         |
| 46 | Weighted finite automata with output. Soft Computing, 2018, 22, 1121-1138.  | 2.1 | 4         |
| 47 | Fuzziness in Automata Theory: Why? How?. Studies in Fuzziness and Soft Computing, 2013, , 109-114.                                  | 0.6 | 4         |
| 48 | Spined products of some semigroups. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1993, 69, .                   | 0.3 | 4         |
| 49 | Moore-Penrose equations in involutive residuated semigroups and involutive quantales. Filomat, 2017, 31, 183-196.                   | 0.2 | 4         |
| 50 | Nil-extensions of unions of groups induced by identities. Semigroup Forum, 1994, 48, 303-311.                                       | 0.3 | 3         |
| 51 | Radicals of Green's relations. Czechoslovak Mathematical Journal, 1999, 49, 683-688.  | 0.3 | 3         |
| 52 | Semilattices of Nil-extensions of Simple Regular Semigroups. Algebra Colloquium, 2003, 10, 81-90.                                   | 0.1 | 3         |
| 53 | Effective subdirect decompositions of regular semigroups. Semigroup Forum, 2008, 77, 500-519.                                       | 0.3 | 3         |
| 54 | Bands of $k$ -Archimedean semigroups. Semigroup Forum, 2010, 80, 426-439.   | 0.3 | 3         |

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|----|--|-----|-----------|
| 55 | Heuristic algorithm for single resource constrained project scheduling problem based on the dynamic programming. Yugoslav Journal of Operations Research, 2009, 19, 281-298. | 0.5 | 3         |
| 56 | Semilattices of Archimedean Semigroups. , 2011, , .  |     | 3         |
| 57 | Traps, Cores, Extensions and Subdirect Decompositions of Unary Algebras. Fundamenta Informaticae, 1999, 38, 51-60.   | 0.3 | 2         |
| 58 | Linear Equations and Regularity Conditions on Semigroups. Semigroup Forum, 2004, 69, 63-74.  | 0.3 | 2         |
| 59 | Boolean relation equations in data analysis. , 2011, , .   |     | 2         |
| 60 | Weakly linear systems for matrices over the max-plus quantale. Discrete Event Dynamic Systems: Theory and Applications, 2022, 32, 1-25.                                      | 0.6 | 2         |
| 61 | Representations and geometrical properties of generalized inverses over fields. Linear and Multilinear Algebra, 2022, 70, 7318-7338.   | 0.5 | 2         |
| 62 | GENERALIZED DIRECTABLE AUTOMATA. , 2003, , .   |     | 2         |
| 63 | Parsing in different languages. Facta Universitatis - Series Electronics and Energetics, 2005, 18, 299-307.  | 0.6 | 2         |
| 64 | Bands of $\hat{\lambda}$ -simple semigroups. Filomat, 2010, 24, 77-85.   | 0.2 | 2         |
| 65 | Strong bands of groups of left quotients. Glasgow Mathematical Journal, 1996, 38, 237-242.   | 0.2 | 1         |
| 66 | Posets of $\mathbb{C}$ -congruences. Algebra Universalis, 1996, 36, 423-424.   | 0.2 | 1         |
| 67 | The Lattice of Semilattice-Matrix Decompositions of a Semigroup. Rocky Mountain Journal of Mathematics, 1999, 29, 1225.  | 0.2 | 1         |
| 68 | Minimal forbidden subwords. Information Processing Letters, 2004, 92, 211-218.   | 0.4 | 1         |
| 69 | SEMIGROUPS SATISFYING CERTAIN REGULARITY CONDITIONS. , 2003, , .   |     | 1         |
| 70 | The Existence of Generalized Inverses of Fuzzy Matrices. Studies in Computational Intelligence, 2019, , 19-38.   | 0.7 | 1         |
| 71 | Identities over the two-element alphabet. Semigroup Forum, 1996, 52, 365-379.  | 0.3 | 0         |
| 72 | Orthogonal sums of $0$ - $\hat{\lambda}$ -simple semigroups. Acta Mathematica Hungarica, 1996, 70, 199-205.  | 0.3 | 0         |

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|----|--|-----|-----------|
| 73 | Sums and Limits of Generalized Direct Families of Algebras. Southeast Asian Bulletin of Mathematics, 2001, 25, 47-60.  | 0.1 | 0         |
| 74 | Subdirect products of certain varieties of unary algebras. Czechoslovak Mathematical Journal, 2007, 57, 573-578.   | 0.3 | 0         |
| 75 | LOCALLY UNIFORMLY $\epsilon$ -REGULAR SEMIGROUPS. , 2000, , .  |     | 0         |
| 76 | SEMIGROUPS SATISFYING SOME VARIABLE IDENTITIES. , 2000, , .  |     | 0         |
| 77 | Normal band compositions of semigroups. Proceedings of the Japan Academy Series A: Mathematical Sciences, 1993, 69, .  | 0.3 | 0         |
| 78 | Regular fuzzy equivalences on multi-mode multi-relational fuzzy networks. , 0, , .   |     | 0         |
| 79 | CROSS-MOMENTS COMPUTATION FOR STOCHASTIC CONTEXT-FREE GRAMMARS. Facta Universitatis Series Mathematics and Informatics, 2018, 33, 041.                         | 0.1 | 0         |
| 80 | Direct and Indirect Methods for Solving Two-Mode Systems of Fuzzy Relation Equations and Inequalities. Studies in Computational Intelligence, 2019, , 155-165. | 0.7 | 0         |