



PREDRAG S. STANIMIROVIĆ

PROFESSOR OF MATHEMATICS AND COMPUTER SCIENCE

UNIVERSITY OF NIŠ

FACULTY OF SCIENCES AND MATHEMATICS

DEPARTMENTS OF COMPUTER SCIENCE

Niš, SERBIA

10 February 2025.

CURRICULUM VITAE

1. BASIC INFORMATION

1.1. PERSONAL AND CONTACT INFORMATION

Date and place of birth:

February 26, 1959, Leskovac, Serbia

Contact Information:

University of Niš, Faculty of Sciences and Mathematics,

Department of Computer Science

Višegradska 33, P. O. Box 224, 18000 Niš, Serbia

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e-mail: pecko@pmf.ni.ac.rs; predrag.stanimirovic@pmf.edu.rs

ORCID ID: 0000-0003-0655-3741

Scopus ID: 390188

Web of Science Researcher ID: AAW-3979-2021

<https://www.webofscience.com/wos/author/rid/AAW-3979-2021>

Website homepage: <https://www.pmf.ni.ac.rs/nastavnici-i-saradnici/biografija/?idz=59>

Google Scholar Citations: <https://scholar.google.com/citations?user=BA9Ta6wAAAAJ>

Research Gate: https://www.researchgate.net/profile/Predrag_Stanimirovic

ORCID Website: <https://orcid.org/0000-0003-0655-3741>

SciProfiles Website: <https://sciprofiles.com/profile/135379>

AD Scientific Index <https://www.adscientificindex.com/scientist/predrag-stanimirovic/1212636>

1.2. EDUCATION AND DEGREES

1996 PhD in Mathematics (University of Niš, Faculty of Philosophy, Niš, Serbia)

PhD Thesis supervisor: Prof. dr Gradimir Milovanović

1990 Magister's degree in Mathematics (University of Niš, Faculty of Philosophy, Niš, Serbia)

Magister's Thesis supervisor: Prof. dr Žarko Mijajlović

1983 BSc in Mathematics (University of Niš, Faculty of Philosophy, Niš, Serbia, 1983)

1.3. PRESENT EMPLOYMENT

Since 11.03.2003

Full Professor • University of Niš, Faculty of Sciences and Mathematics,
Departments of Computer Science • Višegradska 33, 18000 Niš, Serbia

1.4. PREVIOUS EMPLOYMENTS

1983 - 1988 Professor in high school

1988 - 1996 University of Niš, Faculty of Philosophy, Department of Mathematics • Niš,
Serbia, Teaching Assistant

1996 - 1999 University of Niš, Faculty of Philosophy, Department of Mathematics • Niš,

1999 – 2000	Serbia, Assistant Professor University of Niš, Faculty of Philosophy, Department of Mathematics • Niš, Serbia, Associate Professor
2000 – 2002	University of Niš, Faculty of Sciences and Mathematics, Department of Computer Science • Niš, Serbia, Associate Professor
2003 -	University of Niš, Faculty of Sciences and Mathematics, Department of Computer Science • Niš, Serbia, Full Professor

1.5. LANGUAGE SKILLS

Serbian (native).

English (good), (Completed course C1a) and (Certificate of successfully completed training for teaching in English).

Russian (reading capability of literature in the field of expertise).

2. RESEARCH AND SCIENTIFIC ACTIVITIES

2.1. EXPERIENCE IN RESEARCH

Thirty-six years of experience in scientific research in diverse fields of *mathematics* and *computer science*, which span multiple branches of *Numerical linear algebra*, *recurrent neural networks*, *linear algebra*, *symbolic computation*, *nonlinear optimization*, and others.

Research interests:

- Numerical Linear Algebra
- Operations Research
- Nonlinear Optimization
- Computational and Applied Mathematics
- Symbolic Computation

2.2. PUBLICATIONS

- More than 400 publications, including 7 research monographs, 6 text-books, 8 edited books, and 380 peer-reviewed research articles published in scientific journals, conference proceedings, and book chapters, as well as 90 peer-reviewed research articles published in conference proceedings.
- Most of recent articles have been published in the highest ranked international scientific journals.
- They have also been cited mostly in the top ranked Q1 journals.

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

2.3. MANAGEMENT AND PARTICIPATION IN RESEARCH PROJECTS

Managed research projects

2025-	Project supported by the Ministry of Science and Technology of China under grant H20240841.
2022-2023	Call 2023 – KA131, Projects No 2022-1-RS01-KA131-HED-000064410, Learning Mobility of Individuals – Staff mobility for teaching and training activities, Erasmus+ KA131 (STA), Project with National and Kapodistrian University of Athens (Erasmus+ International Mobility).
2021-2022	Call 2019 – KA1 – Learning Mobility of Individuals – Staff mobility for teaching and training activities, Erasmus+ KA107 (STA), Project with National and Kapodistrian University of Athens (Erasmus+ International Mobility).

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- 2018-2019 Call 2017 – KA1 – International Mobility for Staff teaching and training activities, Erasmus + KA103 (STA), Project with National and Kapodistrian University of Athens.
- 2019-2019 Visiting Professor at the University of Alcalá, under the frame of the university program "Giner de los Rios", 2019.
- 2018-2020 Bilateral project *The theory of tensors, operator matrices and applications* (no. 4-5) between China and Serbia.
- 2014-2017 *ICT COST* (European Cooperation in Science and Technology) IC1307 The European Network on Integrating Vision and Language (iV&L Net): Combining Computer Vision and Language Processing For Advanced Search, Retrieval, Annotation and Description of Visual Data.
- 2014-2018 *Applying direct methods for digital image restoring* – 110 – 11000, Bilateral project between University of Goce Delchev, Štip and Faculty of Sciences and Mathematics, University of Niš.
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Leading scientist in Megagrant projects

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- 2022-2024 Гибридные методы моделирования и оптимизации в сложных Системах, Федеральное государственное автономное образовательное учреждение высшего образования "Сибирский Федеральный университет", Красноярск, Номер заявки, 220-8452-3649.
- Leading scientist in Russian educational institutions of higher education, scientific institutions, and state scientific centers of the Russian Federation (Mega-Grant program, 9th stage), application 220-8452-3649 "Hybrid Methods of Modelling and Optimization in Complex Systems".
<https://structure.sfu-kras.ru/node/5723>
-

Global Initiative for Academic Networking (GIAN) projects in India

-
- 2025 GIAN project 2511007 - Solving linear systems and computing generalized inverses using recurrent neural networks during June 09-19, 2025.
Institute: Indian Institute of Technology, Indore
Foreign Faculty Name: Prof PREDRAG S STANIMIROVIC
Duration: 10 days
Mode: In-Person
<https://events.iiti.ac.in/slsc/>
-

Course Name: Solving linear systems and computing generalized inverses using recurrent neural networks

Course Code: 2511007

Sanction letter: <https://gian-assets.s3.ap-southeast-2.amazonaws.com/proposals/2511007/9cd27da.pdf>

Acceptance letter template: <https://docs.google.com/document/d/1vc8zFOsTfx5tNL1-eeStXYasCMF88WWI/edit>

Brochure template: <https://docs.google.com/document/d/1rrY6TMPuu2OA60n7x9EFGbxMCfHrT7OA/edit>

Participation in research projects

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- 2022-2024 QUAM: QUANTITATIVE AUTOMATA MODELS: FUNDAMENTAL PROBLEMS AND APPLICATIONS Funded by: Ministry of Education and Science, Republic of Serbia
Project holder: Faculty of Sciences and Mathematics, University of Niš
Project leader: Miroslav Ćirić
- 2023- Ministry of Education, Science and Technological Development, Republic of Serbia, Grant No. 451-03-47/2023-01/200124.
- 2011-2023 *Development of methods of computation and information processing: theory and applications-174013*
Funded by: Ministry of Education and Science, Republic of Serbia
Project holder: Faculty of Sciences and Mathematics, University of Niš
Project leader: Miroslav Ćirić
- 2006-2010 *Teorija grafova i matematičko programiranje sa primenama u hemiji i računarstvu- 1389*
Funded by: Ministry of Science and Technological Development, Republic of Serbia
Project holder: Matematički institut SANU, Beograd
Project leader: Dragoš Cvetković
- 2006-2010 *Algebraic Structures and Information Processing Methods – 144011*
Funded by: Ministry of Science and Technological Development, Republic of Serbia
Project holder: Faculty of Sciences and Mathematics, University of Niš
Project leader: Miroslav Ćirić
- 2004-2006 *Education and Research Cooperation, Deutcher Akademischer Austauschdienst – DAAD.*
- 2002-2005 *TEMPUS, CD JEP-16160-2001: Innovation of Computer Science Curriculum in Higher Education.*
- 2002–2005 *Graph Theory and Mathematical Programming with Applications in Chemistry and Transportation.*
Funded by: Ministry of Science and Technological Development, Republic of Serbia
Project holder: Mathematical Institute, Belgrade.
Project leader: Dragoš Cvetković
- 2002–2005 *Algebraic and Combinatorial Methods in Information and Communication Technologies - 101227* Funded by: Ministry of Science and Technological Development, Republic of Serbia
Project holder: Faculty of Sciences and Mathematics, University of Niš Project Project managers: Andreja Tapavčević (Novi Sad), Heiko Vogler (Dresden) leader: Miroslav Ćirić
- 1996–2000 *Methods and Models in Theoretical, Applied and Industrial Mathematics: Algebra- 04M03B*
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)

2.4. Experience in the review (expertise) of other applications for grants

- 2005 Evaluation of project application - Matheuristics in Transport and Communication, for the exchange of participants in the project between Laboratoire d'Automatique, de Mécanique et d'Informatique industrielles et Humaines (FRE 3304), Université de Valenciennes et du Hainaut Cambrésis, Republic of France and Mathematical Institute of the Serbian Academy of Sciences and Arts, the Republic of Serbia in 2005 – 2006, CNRS/MSFD (Ca11 2005) .
- 2010 Evaluation of project application - Matheuristics in Transport and Communication, for the exchange of participants in the project between Laboratoire d'Automatique, de Mécanique et d'Informatique industrielles et Humaines (FRE 3304), Université de Valenciennes et du Hainaut Cambrésis, Republic of France and Mathematical Institute of the Serbian Academy of Sciences and Arts, the Republic of Serbia in 2011 – 2012, CNRS/MSFD (Ca11 2010) .
- 2020 Evaluation of project application - Community Detection Techniques with Applications to Epidemic Simulations and Analysis
Evaluation of Serbian-Indian bilateral project proposal for period 2021-2023.
- 2023 Evaluation of the project application - Title: Application of quaternions in Laplacian constrained Gaussian graphical models and graphical neural networks.
Ukrainian-Israeli Scientific Research Program"
CALL FOR JOINT PROJECT PROPOSALS For the Years 2022-2023,
Proposal Details, Reference No. 0005272
- 2024 Modifiers for lattice-valued mappings, MINISTRY OF SCIENCE, TECHNOLOGICAL DEVELOPMENT AND INNOVATION, Serbia – Slovakia, 2024-2025.

Acting as a reviewer for scientific journals

IEEE Transactions on Neural Networks and Learning Systems, IEEE Transactions on Industrial Electronics, Neural Processing Letters, Neurocomputing, Applied Mathematics and Computation, International Journal of Computer Mathematics, Linear Algebra and Applications, Acta Mathematica Hungarica, Indian Journal of Pure and Applied Mathematics, Journal of Automata, Languages and Combinatorics, Publ. Inst. Math. (Belgrade), Facta Universitatis (Niš), Series Mathematics and Informatics, FILOMAT (Niš), Journal of Computational and Applied Mathematics, Bull. Soc. Math. Banja Luka, Mathematical Reviews, Linear and Multilinear Algebra, International Journal of Applied Mathematics and Computer Science, Mathematical Problems in Engineering, Journal of Inequalities and Applications, Annals of Functional Analysis, Matematički Vesnik, Electronic Journal of Linear Algebra, American Journal of Operations Research, Discrete and Applied Mathematics, Computer Applications in Engineering Education, Annals of Functional Analysis, Matematički Vesnik, Neural Computation, The Scientific World Journal, Science Journal of Applied Mathematics and Statistics, Applied Mathematics & Information Sciences, Journal of Applied Mathematics, Applied Mathematics Letters, Mathematical Communications, Pacific Journal of Mathematics for Industry, Special Matrices, Optimization Letters, Hacettepe Journal of Mathematics and Statistics, Numerical Functional Analysis and Optimization, Advances in Difference Equations, European Journal of Operational Research, International Journal of Geographical Information Science, Vietnam Journal of Mathematics, Pacific Journal of Mathematics for Industry, Applied Mathematics & Information Sciences, Entropy, Calcolo, Neural Computing and Applications, Numerical Algorithms, Journal of Mathematical Analysis and Applications, Hacettepe Journal of Mathematics and Statistics, Vietnam Journal of Mathematics, Electronic Journal of Linear Algebra, Numerical Functional Analysis and Applications, International Journal of Geographical Information Science, International Journal of Analysis, YUJOR, The Journal of Linear and Topological Algebra (JLTA), International Journal of Distributed Sensor Networks, Artificial Intelligence Review, IEEE Access, IEEE Transactions of Industrial Informatics, Frontiers in Neurorobotics, Aequationes mathematicae, IEEE Transactions on Circuits and Systems, International Journal of Distributed Sensor Networks, Open Mathematics,

IEEE Transactions of fuzzy sets and systems, Advances in Applied Clifford Algebras, IEEE Transactions on Automation Science and Engineering, IEEE Transactions on Neural Networks and Learning Systems, IEEE Transactions on Systems, Man and Cybernetics: Systems, Journal of Mathematics, AIMS Mathematics, Electronic Research Archive (ERA), Journal of Systems Science, IET Signal Processing, IEEE Transactions on Automation Science and Engineering, Heliyon, Hacettepe Journal of Mathematics and Statistics, IET Image Processing, Inverse Problems in Science & Engineering, Numerical Algorithms, International Journal of Systems Science, HELIYON, The Journal of Analysis (JANA), AIMS Mathematics, IET Control Theory & Applications.

2.5. PARTICIPATION IN SCIENTIFIC CONFERENCES

Membership in program committees, organizing committees and International Scientific Committees of scientific conferences, Organizer of mini-symposiums

- INTERNATIONAL CONFERENCE "FILOMAT 2001", August 26 - 30, 2001, Faculty of Sciences and Mathematics, University of Nis, YUGOSLAVIA, organizing committee.
- The 13th Serbian Mathematical Congress (13th SMC), Vrnjačka Banja, May 22-25, 2014, Co-president of Programme Committee, <https://tesla.pmf.ni.ac.rs/people/smak/committee.php#pos>
- Seventh International Conference on Advanced Computational Intelligence (ICACI), 2015, Wuyi, China, March 27-29, 2015.
- The 5th international scientific conference Analysis, Topology, Algebra: Theory and Applications (ATA2016), Member of Program Committee, <http://www.ftn.kg.ac.rs/konferencije/ATA2016/>
- Filomat 31:10 (2017), special issue devoted to the 5th international scientific conference *Analysis, Topology, Algebra: Theory and Applications* (ATA2016), Čačak, Serbia, from July 6 until July 9, 2016. Guest Editor.
- The Ninth International Conference on Advanced Computational Intelligence (ICACI2017), Doha, Qatar, 4-6 Feb. 2017.
- International Workshop on Complex Systems and Networks IWCSN2017, Doha, Qatar. December 8-10, 2017.
- Special session CO2: Zeroing Neural Networks (ZNN) in the 2018 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2018), Miyazaki, Japan, October 7-10, 2018.
Category: Cybernetics
Title: Zeroing neural network (ZNN)
Organizers: Dr. Dongsheng Guo, Dr. Predrag S. Stanimirović, Dr. Shuai Li.
- The 1st International Conference on Advanced Robotics and Intelligent Control (ICARIC 2018), Jishou University, Jishou City, China (11.10. -14.10.2018), <https://www.mdpi.com/journal/robotics/events/8050>.
- MOTOR: International Conference on Mathematical Optimization Theory and Operations, 18th International Conference, MOTOR 2019, Ekaterinburg, Russia, July 8-12, 2019.
- Special Session on Data Modelling and Processing for Industry 4.0 at the 12th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2020) Phuket, Thailand, March 23-26, 2020.
- 2020 4th International Conference on Modeling, Simulation and Applied Mathematics (MSAM2020), Wuhan, China (January 11-13, 2020).
- 2021 International Conference on Modeling, Simulation and Optimization: Technologies and Engineering Applications (MSOTEA 2021), November 14-15, 2021, ShenZhen, China (<http://msotea.org/com.html>).

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- ANT-2021 (The 12th International Conference on Ambient Systems, Networks and Technologies), March 23 - 26, 2021, Warsaw, Poland, TPC Member, <http://cs-conferences.acadiau.ca/ant-21/#programCommittees>.
- Member of the International Program Committee MMAR 2022 (The 26th International Conference on Methods and Models in Automation and Robotics), 22-25 August 2022, Faculty of Electrical Engineering, West Pomeranian University of Technology in Szczecin, Międzyzdroje, Poland.
- 6th EAI International Conference on Robotics and Networks, EAI ROSENET 2022, [https://services.eai.eu/event-website/EAI ROSENET/2022](https://services.eai.eu/event-website/EAI%20ROSENET/2022), Kottayam, Kerala India, 15 Dec 2022.
- 4th International Conference on Computer Modeling, Simulation and Algorithm (CMSA2022), Guangzhou, China, September 18-19, 2022, <http://www.4th-cmsa.com/index.html>
- Analysis, Topology and Applications 2022 (ATA2022), University of Kragujevac, Faculty of Technical Sciences, Čačak, June 29- July 02, 2022, Vrnjačka Banja, Serbia, <http://www.ftn.kg.ac.rs/konferencije/ATA2022/> member of Scientific Committee.
- Analysis, Topology and Applications 2022 (ATA2022), University of Kragujevac, Faculty of Technical Sciences, Čačak, June 29- July 02, 2022, Vrnjačka Banja, Serbia, <http://www.ftn.kg.ac.rs/konferencije/ATA2022/index.php#programm>, Mini symposium for "Decision Making Analysis",
Co-chiefs: Mališa Žižović, Dragan Pamučar and Predrag Stanimirović.
- 6th Asian Conference on Artificial Intelligence Technology in Changzhou, China (ACAIT 2022), <http://www.acait.cn/>
- IWMMA 2022, The 11th International Workshop on Mathematical Models and their Applications, Krasnoyarsk, the Russian Federation, November 20-23, 2022, Siberian Institute of Applied System Analysis, Office N301, 31, Krasnoyarsky Rabochy Av.,660037 Krasnoyarsk, Russia, Cochair of Program committee, <https://sites.google.com/view/iwmma2022/organizing-committee>.
- The workshop "Hybrid methods of modeling and optimization in complex systems" (HMMOCS-2022) Krasnoyarsk, Russia, 22-24 November 2022, <https://conf.domnit.ru/en/conferences/hmmocs-2022/>.
- Programme Chair in the 9th International Conference on Mathematics and Computing, ICMC 2023, Department of Mathematics, BITS Pilani K. K. Birla Goa Campus (<https://bits-pilani.ac.in/goa/>), January 6-8, 2023, <https://bits-go.a.ac.in/ICMC/>.
- Member of the International Program Committee MMAR 2023 (The 27th International Conference on Methods and Models in Automation and Robotics), 22-25 August 2023, Faculty of Electrical Engineering, West Pomeranian University of Technology in Szczecin, Międzyzdroje, Poland, <http://mmar.edu.pl/index.php/about-mmar-2016/committees/>.
- Conference Chair in International Scientific Conference on Advances in Applied Physics and Mathematics (AAPM-2023), Tashkent, Uzbekistan, 10-12 April 2023, Conference Chairs: Takhirjon Sultanov and Predrag Stanimirović, <http://aapm-2023.online/committees>.
Chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://iopscience.iop.org/article/10.1088/1742-6596/2573/1/011001/pdf
- Member of the Programme Committee in the 9th International Conference on Mathematics and Computing, ICMC 2024, Kalasalingam Academy of Research and Education, Krishnankoil, Srivilliputhur, Tamil Nadu-626126, India (institute website: <https://kalasalingam.ac.in/>), January 4-7, 2024, <http://icmc2024.kalasalingam.ac.in/>.
- IWMMA 2023, The 12th International Workshop on Mathematical Models and their Applications, Krasnoyarsk, the Russian Federation, November 22-24, 2023, Siberian Institute of Applied System Analysis, Office N301, 31, Krasnoyarsky Rabochy Av.,660037 Krasnoyarsk, Russia, Cochair of organizing committee, <https://sites.google.com/view/iwmma2023/organizing-committee>

- Cochair of Programm Committee of II International workshop "Hybrid methods of modeling and optimization in complex systems" (HMMOCS-II 2023), Krasnoyarsk, Russia, 28-30 November 2023, <https://conf.domnit.ru/en/conferences/hmmocs-2023/>.
- 11th International Workshop Weighted Automata: Theory and Applications WATA 2023 October 4–7, 2023, Leipzig, Germany, <https://www.informatik.uni-leipzig.de/wata2023/>
- Keynote speaker on IW-LARA (International Workshop on Linear Algebra and Related Areas) 1st to 3rd November 2023, BITS Pilani K. K. Birla Goa Campus, NH 17B, Bypass Road, Zuarinagar, Sancoale, Goa, India, <https://www.bits-go.a.ac.in/LARA2023/#speakers>.
- Keynote speaker on Workshop on Tensor Computation and Machine Learning (TCML), November 17 and 18, 2023, Department of Computational and Data Sciences, Indian Institute of Science, Bangalore Bengaluru, Karnataka, India, <https://sites.google.com/view/wtcm1/home?authuser=0#h.p42jmxx5zwsu>.
- International Program Committee MMAR 2024 (The 28th International Conference on Methods and Models in Automation and Robotics), 27-30 August 2024, Faculty of Electrical Engineering, West Pomeranian University of Technology in Szczecin, Międzyzdroje, Poland, <http://mmar.edu.pl/index.php/about-mmar-2016/committees/>.
- Analysis, Topology and Applications 2024 (ATA2024), University of Kragujevac, Faculty of Technical Sciences, Čačak, June 29- July 03, 2024 Vrnjačka Banja, Serbia, <http://www.ftn.kg.ac.rs/konferencije/ATA2024/> member of Scientific Committee.
- IWMMA 2024, the 13th International Workshop on Mathematical Models and their Applications, November 21-22, 2024, Siberian Federal University, Krasnoyarsk, Russia, Cochair of Program committee, <https://sites.google.com/view/iwmma2024/organizing-committee>
- Cochair of Program Committee of III International workshop "Hybrid methods of modeling and optimization in complex systems" (HMMOCS-III 2024), Krasnoyarsk, Russia, December 2-4, 2024, <https://conf.domnit.ru/en/conferences/hmmocs-2024/>.

The list of all the 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

2010–2021	FACTA UNIVERSITATIS, SERIES MATHEMATICS AND INFORMATICS • University of Niš, ISSN: 0352-9665 (print), 2406-047X (online) Editor-in-Chief
2021-present	FACTA UNIVERSITATIS, SERIES MATHEMATICS AND INFORMATICS • University of Niš, ISSN: 0352-9665 (print), 2406-047X (online) Section Editor
2008–present	FILOMAT, ISSN: 0354-5180 (print), 2406-0933 (online) Area editor for Operations Research and Symbolic Computation
2020–present	Electronic Research Archive (ERA) • eISSN: 2688 Member of the Editorial Board -1594
2020-present	Numerical Algebra, Control and Optimization (NACO) • ISSN: 2155-3289, eISSN: 2155-3297 Member of the Editorial Board
2021-present	Journal of Mathematics, ISSN: 2314-4629 (Print) ISSN: 2314-4785 (Online) Member of the Editorial Board

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- 2011–present AMERICAN JOURNAL OF OPERATIONS RESEARCH •
ISSN: 2160-8830 (print), 2160-8849 (online)
Member of the Editorial Board
- 2013–2016 SCIENTIFIC WORLD JOURNAL •
Hindawi • ISSN: 2356-6140 (print), 1537-744X (online) •
Member of the Editorial Board
- 2014–2016 SCIENCE JOURNAL OF APPLIED MATHEMATICS AND STATISTICS (SJAMS), SCIENCEPG. •
ISSN: 2376-9491 (print), 2376-9513 (online) •
Member of the Editorial Board
- 2014–2020 JOURNAL OF MATHEMATICS RESEARCH •
1916-9795 (print), 1916-9809 (online) •
Member of the Editorial Board
- 2016–present APPLIED MATHEMATICS AND COMPUTER SCIENCE •
University of Niš, Faculty of Sciences and Mathematics
Editor-in-chief
- 2017–present Yugoslav Journal of Operations Research (YUJOR) •
ISSN: 0354-0243 EISSN: 2334-6043
Member of the Editorial Board
- 2018-present International Journal of Robotics and Control •
ISSN 2577-7742(Print) ISSN 2577-7769(Online)
Member of the Editorial Board
- 2018-present Editorial Board member, Balkan Journal of Applied Mathematics and Informatics •
ISSN 2545-4803 online
Member of the Editorial Board
- 2018-present Editorial Board member, International Journal of Research in Industrial Engineering •
Print ISSN: 2783-1337, Online ISSN: 2717-2937
Member of the Editorial Board
- 2018-present Mathematics Interdisciplinary Research (MIR) •
Print ISSN 2538-3639, online ISSN 2476-4965
Member of the Editorial Board
- 2020-present Editorial Board member, SPEKTRUM INDUSTRI
ISSN 1693-6590(print); ISSN 2442-2630(online)
Member of the Editorial Board
- 2020-present EAI Endorsed Transactions on AI and Robotics;
<https://publications.eai.eu/index.php/airo/index>
Member of the Editorial Board
- 2021-present Editorial Board member, Computational Mathematics and Computer Modeling with
Applications (CMCMA)
<https://cmcma.sbu.ac.ir/>
Member of the Editorial Board
- 2021-present Editorial Board member, Journal of process management and new technologies
ISSN: 2334-7449 (Online), ISSN: 2334-735X (Print) (abbr. JPMNT)
Member of the Editorial Board
- 2021-present Editorial Board member, Computational Algorithms and Numerical Dimensions (CAND)
Member of the Editorial Board
- 2022-present Editorial Board member, Contributions to Mathematics (CM)
<https://shahindp.com/contributions-to-mathematics/>
- 2022-present Topical Advisory Panel Member of Algorithms
- 2024-present Associate Editor, Contemporary Mathematics (CM) ISSN: 2705-1064 (Print) 2705-1056
(Online)

2.7. OTHER SCIENTIFIC ACTIVITIES**Study visits**

6.9.-24.9.2017.	Fudan University, Shanghai • School of Mathematics • China (18 days)
25.6.-3.7.2018.	National and Kapodistrian University of Athens (9 days)
17.9.-17.10.2018.	Fudan University, Shanghai • School of Mathematics • China (1 month)
26.9.-30.9.2018.	Yunnan University, Kunming • China • (5 days)
12.10.-14.10.2018.	Jishou University, Jishou • China • (3 days)
10.12.-17.12.2018.	Kashan University, Kashan • Iran • (7 days)
18.2.-18.3.2019.	Visiting Professor at the University of Alcalá, Department of Mathematics, Madrid, under the frame of the university program "Giner de los Rios", • Espania • (1 month)
27.3.-5.4.2019.	Fudan University, Shanghai • School of Mathematics • China, the Bilateral project between China and Serbia, The theory of tensors, operator matrices and applications (no. 4-5) • (9 days)
23.6.-29.6.2019.	National and Kapodistrian University of Athens • (7 days)
23.9.-16.10.2019.	Fudan University, Shanghai • School of Mathematics • China • (23 days)
16.10.-23.10.2019.	Jishou University, Jishou • China • (8 days)
08.12.-15.12.2019.	National and Kapodistrian University of Athens • Greece • (8 days)
29.08.-04.09.2021.	National and Kapodistrian University of Athens • Greece • (7 days)
22.10.-04.12.2022.	Siberian Federal University, Krasnoyarsk • Russia • (43 days)
07.11.-08.11.2022.	Siberian State University of Science and Technology • Russia • (2 days)
02.04.-09.04.2023.	National and Kapodistrian University of Athens • Greece • (7 days)
14.05.-19.05.2023.	National and Kapodistrian University of Athens • Greece • (6 days)
02.07.-31.07.2023.	Siberian Federal University, Krasnoyarsk • Russia • (30 days)
30.10.-15.11.2023.	Department of Mathematics, BITS Pilani, K. K. Birla Goa Campus, Zuarinagar-403726, Goa, India • (17 days)
16.11.-26.11.2023.	Indian Institute of Science, Department of Computational and Data Science, Bangalore, India • (11 days)
12.07.-14.07.2024.	Fudan University, Shanghai • School of Mathematics • China (2 days)
14.07.- 27.07.2024.	Lanzhou University • China (14 days)
27.07.-31.07.2024.	Yunnan University, Kunming • China • (5 days)
31.10.-30.11.2024.	Siberian Federal University, Krasnoyarsk • Russia • (30 days)

2.8. AWARDS AND ACHIVEMENTS

1983.	Best graduated student Award 1983, University of Niš, Faculty of Philosophy
2019.	Researcher with the most published papers in 2018, University of Niš, Faculty of Sciences and Mathematics
2020.	Researcher with the most published papers in 2019, University of Niš, Faculty of Sciences and Mathematics
2020.	The most cited researcher in 2019, University of Niš, Faculty of Sciences and Mathematics
2021.	Researcher with the most published papers in 2020, University of Niš, Faculty of Sciences and Mathematics

2021. The most cited researcher in 2020, University of Niš, Faculty of Sciences and Mathematics.
2021. 155437th author in the World Rank List in the list of 2% best authors in:
Baas, Jeroen; Boyack, Kevin; Ioannidis, John P.A. (2021), "August 2021 data-update for "Updated science-wide author databases of standardized citation indicators"", Mendeley Data, V3, doi: 10.17632/btchxktzyw.3
Article compiled by this dataset:
Ioannidis JPA, Boyack KW, Baas J (2020) Updated science-wide author databases of standardized citation indicators. PLoS Biology 18(10): e3000918.
<https://doi.org/10.1371/journal.pbio.3000918>.
2022. Top Cited Article 2020-2021, Improved finite-time zeroing neural network for time-varying division, STUDIES IN APPLIED MATHEMATICS
2022. Megagrant of the Ministry of Science and Higher Education of the Russian Federation (Grant No.075-15-2022-1121).
Laboratory "Hybrid Methods of Modelling and Optimization in Complex Systems", Siberian Federal University, Prosp. Svobodny 79, 660041 Krasnoyarsk, Russia.
2022. Award for outstanding contribution to science through publications in 2021, University of Niš, Faculty of Sciences and Mathematics.
2022. Author in the World Rank List in the list of 2% best authors in:
September 2022 data-update for "Updated science-wide author databases of standardized citation indicators", <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>
Article compiled by this dataset:
Ioannidis, John P.A. (2022), September 2022 data-update for "Updated science-wide author databases of standardized citation indicators", Mendeley Data, V4, doi: 10.17632/btchxktzyw.4
2023. Top Cited Article 2021-2022, Improved finite-time zeroing neural network for time-varying division, STUDIES IN APPLIED MATHEMATICS
2023. Award for scientific research productivity in 2022 from University of Niš, Faculty of Sciences and Mathematics (236.79 points)
2023. Award for excellence in research in 2022 from University of Niš, Faculty of Sciences and Mathematics (1060 citations, h-21)
2023. Award from University of Niš, Faculty of Sciences and Mathematics for outstanding excellence and impact in science (author on the Stanford list of top 2% scientists in the world)
2023. Author in the World Rank List in the list of 2% best authors in 2022:
Ioannidis, John P.A. (2023), "October 2023 data-update for "Updated science-wide author databases of standardized citation indicators"", Elsevier Data Repository, V6, doi: 10.17632/btchxktzyw.6
2024. Author in the World Rank List in the list of 2% best authors in 2023:
Ioannidis, John P.A. (2024), "August 2024 data-update for "Updated science-wide author databases of standardized citation indicators"", Elsevier Data Repository, Published: 16 September 2024, Version 7, DOI: 10.17632/btchxktzyw.7
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>
2024. Award from University of Niš, Faculty of Sciences and Mathematics for outstanding excellence and impact in science (author on the Stanford list of top 2% scientists in the world)
2024. Award for excellence in research in 2023 from University of Niš, Faculty of Sciences and Mathematics (1501 citations, h-25)
2024. Award from University of Niš, Faculty of Sciences and Mathematics for most cited article "H. Ahmad, T.A. Khan, P.S. Stanimirović, W. Shatanawi, T. Botmart, New approach on conventional solutions to nonlinear partial differential equations describing physical phenomena, Results in Physics, 41 (2022), 105936, doi: 10.1016/j.rinp.2022.105936".

(60 citations)

2024. Award from University of Niš, Faculty of Sciences and Mathematics for the chapter in monograph
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2.9. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Honorary membership in Neutrosophic Science International Association (NSIA)
 - Serbian Mathematical Sciences Association (SNMD)
 - Serbian Mathematical Society (DMS)
 - Yugoslav Association for Applied and Industrial Mathematics (JUPIM)
 - International Society of Fuzzy Set Extensions and Applications (ISFSEA)
-

3. EXPERIENCE IN SUPERVISION

Supervising doctoral dissertations (PhD theses)

- [1] Nebojša V. Stojković, Primal-dual and simplex methods for solving linear programming problems, University of Niš, Faculty of Science and Mathematics, (Ph.D thesis), 2002.
- [2] Milan B. Tasić, Computing generalized inverses, University of Niš, Faculty of Science and Mathematics, (Ph.D thesis), 2003.
- [3] Predrag Krtolica, Application of the method of inverse Polish notation and interpolation in symbolic computation, University of Niš, Faculty of Science, (Ph.D thesis), 2004.
- [4] Marko Petković, Symbolic computation of Hankel determinants and matrix generalized inverses, University of Niš, Faculty of Science and Mathematics, (Ph.D thesis), 2008.
- [5] Marko Miladinović, Algorithms on structural matrices and application, University of Niš, Faculty of Science and Mathematics, (Ph.D thesis), 2011.
- [6] Slogana Miljković, Iterative methods for computing generalized inverses, University of Niš, Faculty of Science and Mathematics, (Ph.D thesis), 2012.
- [7] Muzafer Saračević, Methods for solving problems of polygons triangulation and their implementation, University of Niš, Faculty of Science and Mathematics, (Ph.D thesis), 2013.
- [8] Igor Stojanović, Non-iterative methods for digital image restoration, University of Niš, Faculty of Science and Mathematics, (Ph.D thesis), 2014.
- [9] Milena J. Petrović, Bidirectional and two-step accelerated methods for unconstrained optimization, University of Niš, Faculty of Sciences and Mathematics, (Ph.D thesis), 2015.
- [10] Ivan Živković, Recurrent neural networks for solving matrix algebra problems, University of Niš, Faculty of Sciences and Mathematics, (Ph.D thesis), 2018.
- [11] Faruk Selimović, Application of Voronoi-Delaunay triangulation and Catalan objects in data protection, University of Niš, Faculty of Sciences and Mathematics, (Ph.D thesis), 2021.
- [12] Sead Mašović, Algorithms for polygon triangulation and their implementation in the web environment (Algoritmi za triangulaciju poligona i njihova implementacija u veb okruženju), University of Niš, Faculty of Sciences and Mathematics, (Ph.D thesis), 2023.

Supervising magister's theses (M.Sc. Thesis)

- [1] S. Rančić, Implementation of some methods of nonlinear programming in LISP (in Serbian), University of Niš, M.Sc. Thesis, 1997.
- [2] M.B. Tasić, Implementation of some methods for computing extremal values and generalized inverses (in Serbian), University of Niš, University of Niš, Faculty of Philosophy, M.Sc. Thesis, 1999.
- [3] S.S. Djordjević, Nonlinear optimization and line search (in Serbian), University of Niš, Faculty of Sciences and Mathematics, M.Sc. Thesis, 2010.

Membership in commissions for assessment and defense of doctoral dissertations

- [1] D.S. Djordjević, Weil-type theorems and generalized inversion (in Serbian), Faculty of Philosophy, University of Niš 1998 (Supervisor Vladimir Rakočević).
- [2] A. Ilić, EXTREME PROBLEMS AND ALGORITHMS FOR GRAPHIC INVARIATES BASED ON OWN VALUES AND DISTANCES (in Serbian), Faculty of Sciences and Mathematics, University of Niš 2010 (Supervisor Ivan Gutman).
- [3] I. Jovanović, Technical faculty at Bor, Development and implementation of multicriteria modeling of batch composition for pyrometallurgical process of copper production (In Serbian) University of Belgrade, 2010 (Supervisor Živan Živković).
- [4] M. Ćirić, Infinitesimal deformations of curves, surfaces and varieties, Faculty of Sciences and Mathematics (In Serbian), University of Niš 2012 (Supervisor Ljubica Velimirović).
- [5] M. Cvetković, Analysis of surface shapes and generalizations (In Serbian), Faculty of Sciences and Mathematics, University of Niš 2014 (Supervisor Ljubica Velimirović).
- [6] D. Milojković, The Application of Mathematical Methods in the Planning Development of Cluster Organizations in the Republic of Serbia (In Serbian), Faculty of Economics, University of Niš 2015 (Supervisor Nebojša Stojković).
- [7] D. 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. (Supervisor Branimir Todorović).
- [8] S. Pepić, Matrix computations in Php/Mysql environment, University of Niš, 2012. (Supervisor Milan Tasić)
- [9] V. Stanković, Thesis: Mathematica package for spectral graph theory, University of Niš, 2014. (Supervisor Dragan Stevanović).
- [10] M. Bašić, Application of matrix operations and decomposition in the optimization of predictive graph models, University of Kragujevac 2022, (Supervisor Igor Milovanović).
- [11] S.D. Mourtas, Intelligent Online Optimization Algorithms for Portfolio Analysis and Management, Doctor of Philosophy in Finance Department of Economics National and Kapodistrian University of Athens, Athens, Greece, May 2023, (Supervisor Vasilios N. Katsikis).

Membership in commissions for external evaluation of doctoral dissertations

- [1] S. Mourtas, member of member of the PhD advisory committee for the preparation and evaluation of PhD thesis.
Name of PhD Candidate: Spyridon Mourtas
Doctoral Dissertation Title (D.D.): Time-Varying Problems in Finance via Linear-Variational Inequality based Primal-Dual Neural Networks (LVI-PDNN)
Date of acceptance of D.D. by the Assembly 13/11/2019
Supervisor: Katsikis Vasilios
Member A: Predrag Stanimirović
Member B: Charalampos Tsitouras.
- [2] L.A. Kazakovtsev, Method of Greedy Heuristics for Problems of Automatic Object Grouping External expert of the Dissertation Council D.999.007.02 (Russia), scientific specialty 05.13.01 (Systems Analysis, Control, and Information Processing).
- [3] M. Kokilamani, A STUDY ON FUZZY AND INTUITIONISTIC FUZZY INVENTORY MODEL FOR OMPERTZ DETERIORATING PRODUCTS, Thesis submitted to the Bharathiar University, Coimbatore, India, 2022.
- [4] G. Sowmya, DESIGN AND CONVERGENCE ANALYSIS OF HYBRID ZHANG NEURAL NETWORKS: TIME-VARYING PROBLEMS WITH APPLICATIONS, DEPARTMENT OF COMPUTER SCIENCE UNIVERSITY OF MADRAS GUINDY CAMPUS, CHENNAI - 600 025 TAMIL NADU, INDIA, 2022

4. ADDITIONAL EDUCATIONAL ACTIVITIES

1997.-1999. University of Priština

2002.-2012. Technical faculty at Bor, University of Belgrade

1995.-2018. Mathematical talents in high school Svetozar Marković, Niš

2002.-2008. Mathematical talents in high school Gimnasium Leskovac

2007.-2015. University of Niš, Faculty of Technology in Leskovac

2018.- Serbian Doctoral School of Mathematics

5. USE OF INFORMATION AND EDUCATIONAL TECHNOLOGIES

Experience in programming languages C++, Mathematica, Matlab, knowledge of LaTeX and many of its packages, HTML, PDF and PDF manipulating software, Microsoft Word, Excel, and PowerPoint, and basic, image processing and desktop publishing software, Skype, and other software.

APPENDIX

APPENDIX 1: PUBLICATIONS

PREDRAG STANIMIROVIĆ

A – PEER-REVIEWED SCIENTIFIC ARTICLES

Journal articles and book chapters

- [397] G. Chowdhry, P.S. Stanimirović, F. Roy, Characterizations of $\{1, 3\}$ -Bohemian Inverses of structured matrices, *FILOMAT*, Accepted.
- Ax[396] D. Mosić, P.S. Stanimirović, L.A. Kazakovtsev, Solving specific constrained matrix optimization problems, *Mediterranean Journal of Mathematics* (2025), Accepted. (M21) (Q1)
- Ax[395] B. Sitha, R. Behera, J.K. Sahoo, R. N. Mohapatra, P.S. Stanimirović, A. Stupina Characterizations of weighted generalized inverses, *Aequationes Mathematicae* (2025), doi: 10.1007/s00010-024-01151-4. (M22)
- A[394] I.I. Kyrchei, D. Mosić, P.S. Stanimirović, The right-left WG inverse solutions to quaternion matrix equations, *Symmetry* 2025, 17, <https://doi.org/10.3390/sym1701003>. (M22) (Q1)
- [393]] X. Cao, Y. Yang, S. Li, P.S. Stanimirović, V.N. Katsikis, Artificial neural dynamics for Portfolio allocation: an optimization perspective, *IEEE Transactions on Systems, Man and Cybernetics: Systems*, doi: 10.1109/TSMC.2024.3514919. (M21a) (Q1)
- Ax[392] P.S. Stanimirović, M. Ćirić, S.D. Mourtas, G.V. Milovanović, M.J. Petrović, Simultaneous method for solving certain systems of matrix equations with two unknowns, *Axioms*, 2024, 13(12), 838, doi: <https://doi.org/10.3390/axioms13120838>. (M21) (Q1)
- [391] N. Bhadala, Sk. S. Ahmad, P.S. Stanimirović, Outer inverse of reduced biquaternion matrices, *Numerical Algorithms*, doi: , 10.1007/s11075-024-01977-8. (M21a) (Q1)
- A[390] H. Ma, W. Wang, P.S. Stanimirović, Weighted Moore-Penrose Inverses for dual matrices and its applications, *Applied Mathematics and Computation*, AMC_129145 (2024), doi: 10.1016/j.amc.2024.129145. (M21a) (Q1)
- [389] D. Zhang, D. Mosić, P.S. Stanimirović, Formulae for anti-triangular block matrices which include the Drazin inverse, *Applicable Analysis and Discrete Mathematics*, (2024), doi: 10.2298/AADM230418022Z. (M22)
- A[388] M. Ćirić, J. Ignjatović, P. S. Stanimirović, Idempotent-aided factorizations of regular elements of a semigroup, *Mathematics*, 2024, 12(19), 3136. <https://doi.org/10.3390/math12193136>. (M21a)
- A[387] I.I. Kyrchei, D. Mosić, P.S. Stanimirović, The Drazin-star and star-Drazin solution to quaternion matrix equations, *Australian Journal of Mathematical Analysis and Applications*, 21(2) (2024), Art. 9, 28 pp.
- A[386] J. K. Sahoo, S. K. Panda, R. Behera, P.S. Stanimirović, Computation of tensors generalized inverses under M-product and applications, *Journal of Mathematical Analysis and Applications*, 542 (2025), doi: 10.1016/j.jmaa.2024.128864. (M21)
- Ax[385] D. Mosić, P.S. Stanimirović, L.A. Kazakovtsev, Minimization problem solvable by weighted m-weak group inverse, *Journal of Applied Mathematics and Computing*, 70 (2024), 6259-6281, doi: 10.1007/s12190-024-02215-z. (M21a) (Q1)
- Ax[384] P.S. Stanimirović, A.A. Stupina, S.Ghorbani, H.J. Khamnei, F. Yıldırım, Investigating the cost stickiness behavior of organizations after the economic recession caused by the COVID-19 pandemic, *Journal of Infrastructure Policy and Development*, 2024, 8(7), 3864. <https://doi.org/10.24294/jipd.v8i7.3864>. (Q2)
- Ax[383] P.S. Stanimirović, M. Ćirić, S.D. Mourtas, P. Brzaković, D. Karabašević, Simulations and bisimulations between weighted finite automata based on time-varying models over real numbers, *Mathematics*, 2024, 12, 2110. doi: 10.3390/math12132110. (M21a) (Q1)
- [383a] P.S. Stanimirović, M. Ćirić, S.D. Mourtas, P. Brzaković, D. Karabašević, Simulations and bisimulations between weighted finite automata based on time-varying models over real numbers, *Mathematics*, 2024, 12, 2110. doi: Special issue preprint, ISBN 978-3-7258-2942-2 (PDF), 145-171, <https://doi.org/10.3390/books978-3-7258-2942-2>.
- A[382] G. Ebadi, K. Mehrabi, P.S. Stanimirović, An Uzawa-Dos method for solving saddle-point problems, *Numerical Algorithms*, doi: 10.1007/s11075-024-01873-1. (M21)
- Ax[381] P.S. Stanimirović, S.D. Mourtas, D. Mosić, N. Katsikis, X. Cao, S. Li, A Zeroing Neural Network approach for calculating time-varying G-outer Inverse of arbitrary matrix, *IEEE Transactions on Neural Networks and Learning Systems*, doi: 10.1109/TNNLS.2024.3415717. (M21a) (Q1)

- A[380] D. Mosić, P.S. Stanimirović, Strong weighted GDMP inverse for operators, *Bulletin of the Iranian Mathematical Society*, 50:43(2024), doi: 10.1007/s41980-024-00894-9. (M22)
- A[379] Y. Gao, Z. Tang, Y. Ke, P.S. Stanimirović, New activation functions and Zhangians in Zeroing neural network and applications to time-varying matrix pseudoinversion, *Mathematics and Computers in Simulation*, 225, MATCOM6468, (2024), <https://doi.org/10.1016/j.matcom.2024.05.006>. (M21a)
- [378] D. Mosić, P.S. Stanimirović, L.A. Kazakovtsev, Solving minimization problems by weighted weak group inverse, *Applied and Computational Mathematics*, 23(2) (2024), 228-243, doi: 10.30546/1683-6154.23.2.2024.228. (M21a) (Q1)
- x[377] V. Krutikov, E. Tovbis, P.S. Stanimirović, L. Kazakovtsev, D. Karabašević, Machine learning in Quasi-Newton methods, *Axioms*, 2024, 13, 240. <https://doi.org/10.3390/axioms13040240>. (M21) (Q1)
- [376] M.D. Petković, P.S. Stanimirović, Zeroing neural network based on the equation $AXA = A$, *Information and Computation*, 301 (2024), 105207, doi: 10.1016/j.ic.2024.105207. (M23)
- Ax[375] S.D. Mourtas, V.N. Katsikis, P.S. Stanimirović, L. Kazakovtsev, Credit and loan approval classification using a bio-Inspired neural network, *Biomimetics*, 2024, 9,120, <https://doi.org/10.3390/biomimetics9020120>. (M21) (Q2)
- Ax[374] D. Mosić, P.S. Stanimirović, L.A. Kazakovtsev, The m-weak group inverse for rectangular matrices, *Electronic Research Archive (ERA)*, 32(3) (2024), 1822-1843, DOI: 10.3934/era.2024083. (M22) (Q1)
- Ax[373] R. Behera, J.K. Sahoo, P.S. Stanimirović, A. Stupina, A. Stupin, Computing tensor generalized bilateral inverses, *Communications on Applied Mathematics and Computation*, doi: 10.1007/s42967-024-00373-2. (M22) (Q2)
- Ax[372] P.S. Stanimirović, N. Tešić, D. Gerontitis, G.V. Milovanović, M. J. Petrović, V.L. Kazakovtsev, V. Stasiuk, Application of gradient optimization methods in defining neural dynamics, *Axioms*, 2024, 13, 49, <https://doi.org/10.3390/axioms13010049>. (M21) (Q1)
- A[371] D. Mosić, P.S. Stanimirović, I.I. Kyrchei, Index-MP and MP-index matrices, *Journal of Mathematical Analysis and Applications*, 533 (2024) 128004, <https://doi.org/10.1016/j.jmaa.2023.128004>. (M21)
- A[370] D. Gerontitis, C. Mo, P.S. Stanimirović, V.N. Katsikis, Improved zeroing neural models based on two novel activation functions with exponential behavior, *Theoretical Computer Science* 986 (2024), 114328 <https://doi.org/10.1016/j.tcs.2023.114328>. (M23)
- x[369] N. Rezova, L. Kazakovtsev, I. Rozhnov, P.S. Stanimirović, G. Shkaberina, Hybrid algorithms with alternative embedded local search schemes for the p-median problem, *International Journal on Information Technologies & Security*, № 4 (vol. 15), 2023, <https://doi.org/10.59035/NTBO2860>. (ESCI, IF 0.9) (Q2)
- x[368] V. Krutikov, E. Tovbis, P.S. Stanimirović, L. Kazakovtsev, On the Convergence rate of Quasi-Newton methods on strongly convex functions with Lipschitz gradient, *Mathematics*, 2023, 11, 4715. <https://doi.org/10.3390/math11234715> (M21a) (Q1)
- A[367] D. Mosić, D. Zhang, P.S. Stanimirović, An extension of the MPD and MP weak group inverses, *Applied Mathematics and Computation*, 465 (2024) 128429, <https://doi.org/10.1016/j.amc.2023.128429>. (M21a) (Q1)
- Ax[366] P.S. Stanimirović, S.D. Mourtas, D. Mosić, V.N. Katsikis, X. Cao, S. Li, Zeroing Neural Network approaches for computing time-varying minimal rank outer inverse, *Applied Mathematics and Computation*, 465 (2024) <https://doi.org/128412>, DOI: 10.1016/j.amc.2023.128412. (M21a) (Q1)
- Ax[365] D. Mosić, P.S. Stanimirović, L.A. Kazakovtsev, Application of m-weak group inverse in solving optimization problems, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas* 118, 13 (2024), DOI: 10.1007/s13398-023-01512-9. (M21a) (Q1)
- Ax[364] S.K. Panda, J.K. Sahoo, R. Behera, P.S. Stanimirović, D. Mosić, A. Stupina, The CEPGD-inverse for square matrices, *Bulletin of the Iranian Mathematical Society* 49, 79 (2023), DOI: 10.1007/s41980-023-00826-z. (M23) (Q3)
- Ax[363] B. Sitha, J. Keshari Sahoo, R. Behera, P.S. Stanimirović, A. Stupina, Generalized core-EP inverse for square matrices, *Computational and Applied Mathematics* 42, 384 (2023), Doi: 10.1007/s40314-023-02458-9. (M21) (Q1)
- A[362] M. Ćirić, J. Ignjatović, P. S. Stanimirović, Outer inverses in semigroups belonging to the prescribed Green's equivalence classes, *Semigroup Forum* 107 (2023), 251–293. doi: 10.1007/s00233-023-10382-x. (M23)
- [361] X. Cao, C. Peng, Y. Zheng, S. Li, T. Ha, T. T. Thu; V. Shutyaev, V. Katsikis, P.S. Stanimirović, Neural Networks for Portfolio analysis in high-frequency trading, *IEEE Transactions on Neural Networks and Learning Systems* 35(12) (2024), 18052-18061 <https://doi.org/10.1109/TNNLS.2023.3311169>. (M21a) (Q1)
- [360] L. Jin, P.S. Stanimirović, Guest Editorial: Special issue on recurrent dynamic neural networks: theory and applications, *CAAI Transactions on Intelligence Technology*, 8 (2023), 547–548 DOI: 10.1049/cit2.12266. (M21)
- Ax[359] P.S. Stanimirović, D. Gerontitis, V.N. Krutikov, L.A. Kazakovtsev, Towards Subderivative-based Zeroing Neural Networks, Volume 1881 of the *Communications in Computer and Information Science* series, M.

- Khachay et al. (Eds.): MOTOR 2023, Communications in Computer and Information Science - CCIS 1881, pp. 3–15, 2023. https://doi.org/10.1007/978-3-031-43257-6_1, Springer Nature Switzerland, invited paper.
- A[358] I.I. Kyrchei, D. Mosić, P.S. Stanimirović, W-MPCEP--N-CEPMP-solutions to quaternion matrix equations with constraints, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, 117, 155 (2023), doi: 10.1007/s13398-023-01483-x. (M21a) (Q1)
- Ax[357] P.V. Krtolica, P.S. Stanimirović, S. Mašović, I.A. Elshaarawy, A. Stupina, Convex polygon triangulation based on symmetry, *Symmetry*, 2023, 15., 1526, <https://doi.org/10.3390/sym15081526>. (M22) (Q2)
- Ax[356] R. Badoni, J. Sahoo, S. Srivastava, M. Mann, D.K. Gupta, S. Verma, P.S. Stanimirović, L. Kazakovtsev, D. Karabašević, An exploration and exploitation based metaheuristic approach for university course timetabling problems, *Axioms*, (2023), 2464670, doi: 10.3390/axioms12080720. (M21) (Q2)
- [355] ([340]) X. Cao, A. Fransis, X. Pu, Z. Zhang, V.N. Katsikis, P.S. Stanimirović, I Brajević, S. Li, A novel recurrent neural network based online portfolio analysis for high frequency trading, *Expert Systems with Applications (ESWA)*, 223 (2023), doi: 10.1016/j.eswa.2023.120934. (M21a) (Q1)
- A[354] D. Su, P.S. Stanimirović, L.-B. Han, L. Jin, Neural dynamics for improving optimizer in deep learning with noise considered, *CAAI Transactions on Intelligence Technology*, (2023), 722-737 doi: 10.1049/cit2.12263. (M21) (Q1)
- Ax[353] T.E. Simos, V.N. Katsikis, S. Mourtas, P.S. Stanimirović, Solving time-varying nonsymmetric algebraic Riccati Equations with Zeroing Neural Dynamics, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 53(10) (2023), 6575-6587, doi: 10.1109/TSMC.2023.3284533. (M21a) (Q1)
- Ax[352] P.S. Stanimirović, B. Ivanov, D. Stanujkić, L.A. Kazakovtsev, V.N. Krutikov, D. Karabašević, Fuzzy adaptive parameter in the Dai-Liao optimization method based on neutrosophy, *Symmetry*, 2023, 15, 1217. DOI: 10.3390/sym15061217. (M22) (Q2)
- [351] E. Tovbis, V. Krutikov, P.S. Stanimirović, V. Meshechkin, A. Popov, L. Kazakovtsev, A Family of multi-step subgradient minimization methods, *Mathematics*, 2023, 11(10), 2264, doi: 10.3390/math11102264. (M21a) (Q1)
- A[350] R. Behera, D. Gerontitis, P.S. Stanimirović, V.N. Katsikis, Y. Shi, X. Cao, An efficient Zeroing Neural Network for solving time-varying nonlinear equations, *Neural Computing and Applications*, 35 (2023), 17537–17554 doi: 10.1007/s00521-023-08621-x. (M21) (Q1)
- A[349] D. Mosić, P.S. Stanimirović, M. Ćirić, Extensions of G-outer inverses, *Filomat*, 37:22 (2023), 7407-7429, . <https://doi.org/10.2298/FIL2322407M>. (M22)
- Ax[348] D. Mosić, P.S. Stanimirović, S. Mourtas, Minimal rank properties of outer inverses with prescribed range and null space, *Mathematics* 2023, 11(7), 1732, <https://doi.org/10.3390/math11071732>. (M21a) (Q1)
- x[347] V. Krutikov, E. Tovbis, A. Bykov, P.S. Stanimirović, E. Chernova, L. Kazakovtsev, Properties of the quadratic transformation of dual variables, *Algorithms* 2023, 16, 148, doi: 10.3390/a16030148. (M22) (Q3)
- Ax[346] S.D.Mourtas, P.S. Stanimirović & V.N. Katsikis (2023). A neutrosophic adaptive Recurrent Neural Network for time-varying matrix Inversion. In P. Stanimirović, A. A. Stupina, E. Semenkin, & I. V. Kovalev (Eds.), *Hybrid Methods of Modeling and Optimization in Complex Systems*, vol 1. European Proceedings of Computers and Technology (pp. 249-255). European Publisher. <https://doi.org/10.15405/epct.23021.30>.
- Ax[345] P.S. Stanimirović, B. Ivanov, V.N. Katsikis, & S.D. Mourtas (2023). Neutrosophy in Unconstrained Nonlinear Optimization. In P. Stanimirović, A. A. Stupina, E. Semenkin, & I. V. Kovalev (Eds.), *Hybrid Methods of Modeling and Optimization in Complex Systems*, vol 1. European Proceedings of Computers and Technology (pp. 131-139). European Publisher. <https://doi.org/10.15405/epct.23021.17>.
- Ax[344] P.S. Stanimirović, D. Gerontitis, N. Tešić, L.V. Kazakovtsev, V. Stasiuk, & X. Cao, (2023). Gradient Neural Dynamics Based on Modified Error Function. In P. Stanimirović, A. A. Stupina, E. Semenkin, & I. V. Kovalev (Eds.), *Hybrid Methods of Modeling and Optimization in Complex Systems*, vol 1. European Proceedings of Computers and Technology (pp. 256-263). European Publisher. <https://doi.org/10.15405/epct.23021.31>.
- [343] T. Feliks, W.P. Hunek, P.S. Stanimirović, Application of generalized inverses in the minimum-energy perfect control theory, *IEEE Transactions on Systems, Man and Cybernetics: Systems*, 53(7) (2023), 4560-4575, 10.1109/TSMC.2023.3253778. (M21a) (Q1)
- [342] D. Gerontitis, C. Mo, P.S. Stanimirović, P. Tzekis, V.N. Katsikis, A novel extended Li zeroing neural network for matrix inversion, *Neural Computing and Applications*, 35 (2023), 14129-14152, doi: 10.1007/s00521-023-08460-w. (M21) (Q1)
- [341] H. Ma, D. Mosić, P.S. Stanimirović, Perturbation bounds for the group inverse and its oblique projection, *Applied Mathematics and Computation*, 449 (2023), 127963, doi: 10.1016/j.amc.2023.127963. (M21a) (Q1)
- [340] X. Cao, A. Francis, X. Pu, Z. Zhang, V.N. Katsikis, P.S. Stanimirović, I. Brajević, S. Li, A novel recurrent neural network based online portfolio analysis for high frequency trading, *SSRN Electronic Journal*, DOI: 10.2139/ssrn.4185668.

- x[339] B. Ivanov, G.V. Milovanović, P.S. Stanimirović, A.M. Awal, L.A. Kazakovtsev, V.N. Krutikov, A modified Dai–Liao conjugate gradient method based on a scalar matrix approximation of Hessian and its application, *Journal of Mathematics*, Volume 2023, Article ID 9945581 doi: 10.1155/2023/9945581. (M21) (Q1)
- x[338] V.N. Katsikis, P.S. Stanimirović, S.D. Mourtas, L. Xiao, D. Stanujkić, D. Karabašević, Zeroing Neural Network based on neutrosophic logic for calculating minimal-norm least-squares solutions to time-varying linear systems, *Neural Processing Letters*, 55 (2023), 8731-8753, doi: 10.1007/s11063-023-11175-7. (M22) (Q3)
- A[337] D. Mosić, P.S. Stanimirović, Existence and representations of solutions to some constrained systems of matrix equations, Book chapter "Matrix and Operator Equations and Applications", Book series: Mathematics Online First Collections, Editor: Mohammad Sal Moslehian, Electronic ISSN 2730-6348, Print ISSN 2730-633X, Springer, Cham., https://doi.org/10.1007/16618_2023_44. (M13)
- A[336] I. Kyrchei, D. Mosić, P.S. Stanimirović, Quaternion two-sided matrix equations with specific constraints, Book chapter "Matrix and Operator Equations and Applications", Book series: Mathematics Online First Collections, Editors: Mohammad Sal Moslehian, Electronic ISSN 2730-6348, Print ISSN 2730-633X, Springer, Cham., https://doi.org/10.1007/16618_2023_45. (M13)
- [335] I. I. Kyrchei, D. Mosić, P.S. Stanimirović, W-MPD–N-DMP-solutions of constrained quaternion matrix equations, *Special Matrices*, 11 (2023), 1-21, doi: 10.1515/spma-2022-0183. (IF 0.5) (M23)
- Ax[334] P.S. Stanimirović, B.I. Shaini, J. Sabi'u, A. Shah, M.J. Petrović, B. Ivanov, A. Stupina, X. Cao, S. Li, Improved gradient descent iterations for solving systems of nonlinear equations, *Algorithms*, 2023, 16,64, doi: 10.3390/a16020064. (M22) (Q1)
- x[333] P.S. Stanimirović, B. Ivanov, D. Stanujkić, V.N. Katsikis, S.D. Mourtas, L.A. Kazakovtsev, S.A. Edalatpanah, Improvement of unconstrained optimization methods based on symmetry involved in neutrosophy, *Symmetry*, 2023, 15,250, doi: 10.3390/sym15010250. (M22) (Q2)
- [332] A.T. Khan, S. Li, Y. Zhang, P.S. Stanimirović, Eagle perching optimizer for the online solution of constrained optimization, *Memories - Materials, Devices, Circuits and Systems*, 4 (2023), 100021, 1-11, doi: 10.1016/j.memori.2022.100021. (M24)
- x[331] I. Brajević, P.S. Stanimirović, S. Li, X. Cao, A.T. Khan, L.A. Kazakovtsev, Hybrid sine cosine algorithm for solving engineering optimization problems, *Mathematics*, 2022, 10, 4555, doi: 10.3390/math10234555. (M21a) (Q1)
- [330] S. Liang, B. Peng, P.S. Stanimirović, L. Jin, Design, Analysis, and Application of Projected k-Winner-Take-All Network, *Information Sciences*, 621 (2023), 74-87, doi: 10.1016/j.ins.2022.11.090. (M21a) (Q1)
- x[329] P.S. Stanimirović, S.D. Mourtas, V.N. Katsikis, L.A. Kazakovtsev, V.N. Krutikov, Recurrent Neural Network models based on optimization methods, *Mathematics*, 2022, 10,4292, doi: 10.3390/math10224292. (M21a) (Q1)
- [328] V.N. Krutikov, P.S. Stanimirović, O.N. Indenko, E.M. Tovbis, L.A. Kazakovtsev, Optimization of subgradient method based on Rank-two correction of metric matrices, *Journal of Applied and Industrial Mathematics* 16(3) (2022), 427-439. (M24)
- [327] A.M. Awwal, A. Ishaku, A.S. Halilu, P.S. Stanimirović, N. Pakkaranang, B. Panyanak, Descent derivative-free method involving symmetric rank-one update for solving convex constrained nonlinear monotone equations and application to image recovery, *Symmetry*, 2022, 14, 2375, doi: 10.3390/sym14112375. (M22) (Q2)
- x[326] V.N. Katsikis, S. Mourtas, P.S. Stanimirović, S. Li, X. Cao, Time-varying Minimum-Cost Portfolio Insurance problem via an adaptive fuzzy-power LVI-PDNN, *Applied Mathematics and Computation*, 441 (2023), <https://doi.org/10.1016/j.amc.2022.127700>. (M21a) (Q1)
- [325] J. Sabi'u, A. Shah, P.S. Stanimirović, B. Ivanov, M.Y. Waziri, Modified optimal Perry conjugate gradient method for solving system of monotone equations with applications, *Applied Numerical Mathematics* 184 (2023), 431-445, doi: 10.1016/j.apnum.2022.10.016. M21.
- x[324] V. Stanojević, L. Kazakovtsev, P.S. Stanimirović, N. Rezova, G. Shkaberina, Calculating Moore-Penrose generalized inverse on massive-parallel systems, *Algorithms* 2022, 15(10), 348, doi: 10.3390/a15100348. (Q3)
- [323] H. Ahmad, T.A. Khan, P.S. Stanimirović, W. Shatanawi, T. Botmart, New approach on conventional solutions to nonlinear partial differential equations describing physical phenomena, *Results in Physics*, 41 (2022), 105936, doi: 10.1016/j.rinp.2022.105936. (M21)
- [322] D. Gerontitis, R. Behera, Y. Shi, P.S. Stanimirović, A robust noise tolerant zeroing neural network for solving time-varying linear matrix equations, *Neurocomputing*, 508 (2022), 254-274. (M21)
- x[321] A. Kumar, D. Mosić, P.S. Stanimirović, G. Singh, L.A. Kazakovtsev, Commuting outer inverse-based solutions to the Yang–Baxter-like matrix equation, *Mathematics*, 2022, 10(15), 2738, doi: 10.3390/math10152738.
- [320] B. Ivanov, G.V. Milovanović, P.S. Stanimirović, Accelerated Dai–Liao projection method for solving systems of monotone nonlinear equations with application to image deblurring, *Journal of Global Optimization*, 85 (2023), 377-420, doi: 10.1007/s10898-022-01213-4. (M21) (Q2)
- [319] R. Behera, G. Maharana, J.K. Sahoo, P.S. Stanimirović, Characterizations of the Weighted Core-EP Inverses, *Bulletin of the Iranian Mathematical Society*, 48 (2022), 3659-3686, 10.1007/s41980-022-00715-x. (M23)

- [318] J. Wendong, C.-L. Lin, V.N. Katsikis, S.D. Mourtas, P.S. Stanimirović, T. E. Simos, Zeroing Neural Network approaches based on direct and indirect methods for solving the Yang-Baxter-like matrix equation, *Mathematics*, 10(11) doi: 10.3390/math10111950. (M21a) (Q2)
- [317] T. E. Simos, V.N. Katsikis, S.D. Mourtas, P.S. Stanimirović, Unique non-negative definite solution of the time-varying algebraic Riccati equations with applications to stabilization of LTV system, *Mathematics and Computers in Simulation*, 202 (2022), 164-180. (M21a) (Q1)
- [316] T. E. Simos, V.N. Katsikis, S.D. Mourtas, P.S. Stanimirović, Finite-time convergent Zeroing Neural Network for solving time-varying Algebraic Riccati Equations, *Journal of the Franklin Institute*, 359 (2022), 10867–10883 doi: 10.1016/j.jfranklin.2022.05.021. (M21a) (Q1)
- [315] D. Mosić, P.S. Stanimirović, D. Zhang, Extensions of generalized core-EP inverse, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A-Matemáticas*, 132 (2022), doi: 10.1007/s13398-022-01267-9. (M21a) (Q1)
- [314] I. Kyrchei, D. Mosić, P.S. Stanimirović, Representations of quaternion W-MPCEP, W-CEPMP and W-MPCEPMP inverses, *Advances in Applied Clifford Algebras*, 32:35 (2022), doi: 10.1007/s00006-022-01217-z. (M22)
- [313] D. Stanujkić, D. Karabašević, G. Popović, F. Smarandache, P.S. Stanimirović, M. Saračević, V.N. Katsikis, A single valued neutrosophic extension of the simple WISP method, *Informatica*, 35(3) (2022), 635–651, doi: 10.15388/22-INFOR483. (M21a)
- [312] P.S. Stanimirović, D. Mosić, Y. Wei, Generalizations of composite inverses with certain image and/or kernel, *Applied Mathematics and Computation*, 428 (2022), AMC_127155, doi: 10.1016/j.amc.2022.127155. (M21a) (Q1)
- [311] T.E. Simos, V.N. Katsikis, S. Mourtas, P.S. Stanimirović, D. Gerontitis, A higher-order Zeroing Neural Network for pseudoinversion of an arbitrary time-varying matrix with applications to mobile object localization, *Information Sciences* 600 (2022), 226-238. (M21a) (Q1)
- [310] D. Mosić, P.S. Stanimirović, V.N. Katsikis, Properties of the CMP inverse and its computation, *Computational and Applied Mathematics* 41:131(2022), doi: 10.1007/s40314-022-01847-w. (M21)
- [309] J. Liu, M. Liu, X. Du, P.S. Stanimirović, L. Jin, An improved DV-Hop algorithm for wireless sensor networks based on neural dynamics, *Neurocomputing* 491 (2022), 172-185, doi: 10.1016/j.neucom.2022.03.050. (M21)
- x[308] I. Masich, M. Kulachenko, P.S. Stanimirović, A. Popov, E. Tovbis, A. Stupina, L. Kazakovtsev, Formation of fuzzy patterns in logical analysis of data using a multi-criteria genetic algorithm, *Symmetry*, 11633795, 14(3) (2022), doi: 10.3390/sym14030600. (M22) (Q2)
- [307] A.T. Khan, X. Cao, I. Brajević, P.S. Stanimirović, V.N. Katsikis, S. Li, Non-linear activated beetle antennae search: A novel technique for non-convex tax-aware portfolio optimization problem, *Expert Systems with Applications (ESWA)*, 197 (2022), doi: 10.1016/j.eswa.2022.116631. (M21a) (Q1)
- [306] D. Stanujkić, D. Karabašević, G. Popović, E.K. Zavadskas, M. Saračević, P.S. Stanimirović, A. Ulutaş, V.N. Katsikis, L. Meidute-Kavaliauskiene, Comparative analysis of the Simple WISP and some prominent MCDM methods: a Python approach, *Axioms*, 2021, 10, 347, doi: 10.3390/axioms10040347. (M22)
- [305] I. Kyrchei, D. Mosić, P.S. Stanimirović, MPCEP*CEPMP-solutions of some restricted quaternion matrix equations, *Advances in Applied Clifford Algebras*, 32:16 (2022) doi: 10.1007/s00006-021-01192-x. (M22)
- [304] P.S. Stanimirović, D. Mosić, Y. Wei, A Survey of Composite Generalized Inverses, Chapter 1 In: *Generalized Inverses: Algorithms and Applications* (editor Ivan Kyrchei), Series: Mathematics Research Development, Nova Science Publishers Inc, New York, 2021, ISBN: 978-1-68507-356-5, DOI: <https://doi.org/10.52305/MJVE4994>. (M14)
- [303] V.N. Katsikis, P.S. Stanimirović, S.D. Mourtas, S. Li, X. Cao, Towards Higher Order Dynamical Systems, Chapter 6 In: *Generalized Inverses: Algorithms and Applications* (editor Ivan Kyrchei), Series: Mathematics Research Development, Nova Science Publishers Inc, New York, 2021, ISBN: 978-1-68507-356-5, DOI: <https://doi.org/10.52305/MJVE4994>. (M14)
- [302] A.T. Khan, X. Cao, S. Li, V.N. Katsikis, I. Brajević, P.S. Stanimirović, Fraud detection in publicly traded U.S firms using Beetle Antennae Search: A machine learning approach, *Expert Systems with Applications (ESWA)* 191 (2022), doi: 10.1016/j.eswa.2021.116148. (M21a) (Q1)
- [301] D. Mosić, P.S. Stanimirović, Expressions and properties of weak core inverse, *Applied Mathematics and Computation*, 415(15) (2022), doi: 10.1016/j.amc.2021.126704. (M21a) (Q1)
- [300] V.N. Katsikis, P.S. Stanimirović, S. Mourtas, L. Xiao, D. Karabašević, D. Stanujkić, Zeroing Neural Network with fuzzy parameter for computing pseudoinverse of arbitrary matrix, *IEEE Transactions on Fuzzy Systems* 30(9) (2022), 3426-3435, doi: 10.1109/TFUZZ.2021.3115969. (M21a) (Q1)
- [299] V.N. Katsikis, S. Mourtas, P.S. Stanimirović, S. Li, X. Cao, Time-varying mean-variance portfolio selection problem via LVI-PDNN, *Computers and Operations Research* 138 (2022), doi: 10.1016/j.cor.2021.105582. (M21) (Q1)

- [298] P.S. Stanimirović, M. Ćirić, A. Lastra, J.R. Sendra, J. Sendra, Representations and geometrical properties of generalized inverses over fields, *Linear and Multilinear Algebra*, 70(22) (2022), 7318-7338, doi: 10.1080/03081087.2021.1985420. (M21)
- [297] D. Gerontitis, R. Behera, P. Tzekis, P.S. Stanimirović, A family of varying-parameter finite-time zeroing neural networks for solving time-varying Sylvester equation and its application, *Journal of Computational and Applied Mathematics* 403 (2022), doi: 10.1016/j.cam.2021.113826. (M21)
- [296] P.S. Stanimirović, M.D. Petković, D. Mosić, Exact solutions and convergence of gradient based dynamical systems for computing outer inverses, *Applied Mathematics and Computation*, 412 (2022), <https://doi.org/10.1016/j.amc.2021.126588>. (M21a) (Q1)
- [295] D. Mosić, P.S. Stanimirović, V.N. Katsikis, Weighted composite outer inverses, *Applied Mathematics and Computation* 411 (2021), doi: 10.1016/j.amc.2021.126493. (M21a) (Q1)
- [294] D. Stanujkić, D. Karabašević, G. Popović, P.S. Stanimirović, M. Saračević, F. Smarandache, V.N. Katsikis, A. Ulutaş, A new grey approach for using SWARA and PIPRECIA methods in a group decision-making environment, *Mathematics* 9 (2021), doi: 10.3390/math9131554. (M21a) (Q2)
- [293] I. Kyrchei, D. Mosić, P.S. Stanimirović, MPD-DMP-solutions to quaternion two-sided restricted matrix equations, *Computational and Applied Mathematics* 40 (2021), DOI: 10.1007/s40314-021-01566-8. (M21)
- [292] V.N. Katsikis, S. Mourtas, P.S. Stanimirović, Y. Zhang, Continuous-time varying complex QR decomposition via Zeroing Neural Dynamics, *Neural Processing Letters*, 53 (2021), 3573-3590, 10.1007/s11063-021-10566-y. (M22)
- [291] D. Stanujkić, D. Karabašević, G. Popović, P.S. Stanimirović, F. Smarandache, M. Saračević, A. Ulutaş, V.N. Katsikis, An innovative grey approach for group multi-criteria decision analysis based on the median of ratings by using Python, *Axioms* (2021), 10, 124, DOI: 10.3390/axioms10020124. (M22)
- [290] S. Wang, L. Jin, X. Du, P.S. Stanimirović, Accelerated convergent zeroing neurodynamics models for solving multi-linear systems with M-tensors, *Neurocomputing* 458 (2021), 271-283, doi: 10.1016/j.neucom.2021.06.005. (M21)
- [289] I.I. Kyrchei, D. Mosić, P.S. Stanimirović, Weighted minimization problems for quaternion matrices, *Advances in Applied Clifford Algebras* 31, 48 (2021), DOI: 10.1007/s00006-021-01153-4. (M22)
- [288] P.S. Stanimirović, D. Mosić, Y. Wei, Least squares properties of generalized inverses, *Commun. Math. Res.* 37 (2021), 421-447, doi: 10.4208/cmr.2021-0011. (M51)
- [287] F. Selimović, P.S. Stanimirović, M. Saračević, P. Krtolica, Application of Delaunay triangulation and Catalan objects in steganography, *Mathematics* 9 (2021), 1172, <https://doi.org/10.3390/math9111172>. (M21a) (Q2)
- [286] P.S. Stanimirović, J.R. Sendra, R. Behera, J.K. Sahoo, D. Mosić, J. Sendra, A. Lastra, Computing tensor generalized inverses via specialization and rationalization, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A-Matemáticas*, 115, 116, doi: 10.1007/s13398-021-01057-9. (M21a)
- [285] P.S. Stanimirović, M. Ćirić, A. Lastra, J.R. Sendra, J. Sendra, Representations and symbolic computation of generalized inverses over fields, *Applied Mathematics and Computation* 406 (2021), [doi:10.1016/j.amc.2021.126287](https://doi.org/10.1016/j.amc.2021.126287), AMC_126287. (M21a) (Q1)
- [284] H. Ma, P.S. Stanimirović, D. Mosić, I.I. Kyrchei, Sign pattern, usability, representations and perturbation for the core-EP and weighted core-EP inverse, *Applied Mathematics and Computation* 404(1) (2021), doi: 10.1016/j.amc.2021.126247, AMC_126247. (M21a) (Q1)
- [283] P.S. Stanimirović, V.N. Katsikis, L. Jin, D. Mosić, Properties and computation of continuous-time solutions to linear systems, *Applied Mathematics and Computation* 405(15) (2021), doi: 10.1016/j.amc.2021.126242. (M21a) (Q1)
- [282] C. Mo, D. Gerontitis, P.S. Stanimirović, Solving the time-varying tensor square root equation by varying-parameters finite-time Zhang Neural Network, *Neurocomputing*, 445 (2021), 309-325, doi: 10.1016/j.neucom.2021.03.011. (M21)
- [281] D. Mosić, P.S. Stanimirović, H. Ma, Generalization of core-EP inverse for rectangular matrices, *Journal of Mathematical Analysis and Applications* 500 (2021), <https://doi.org/10.1016/j.jmaa.2021.125101>. (M21)
- [280] V.N. Katsikis, S.D. Mourtas, P.S. Stanimirović, S. Li, X. Cao, Time-Varying Mean-Variance Portfolio Selection under transaction costs and cardinality constraint problem via Beetle Antennae Search Algorithm (BAS), *SN Operations Research Forum*, 2, 18 (2021), <https://doi.org/10.1007/s43069-021-00060-5>. (M24)
- [279] X. Zhang, L. Chen, S. Li, P.S. Stanimirović, L. Zhang, L. Jin, Design and analysis of recurrent neural network models with non-linear activation functions for solving time-varying quadratic programming problems, *CAAI Trans. Intell. Technol.* 6(4) (2021), 394-404, <https://doi.org/10.1049/cit2.12019>. (M21)
- [278] B. Ivanov, B. Shaini, P.S. Stanimirović, Multiple use of backtracking line search in unconstrained optimization, *Facta Universitatis (Niš) Ser. Math. Inform.* 35(5) (2020), 1417-1438. (M51)
- [277] P.S. Stanimirović, D. Gerontitis, P. Tzekis, R. Behera, J.K. Sahoo, Simulation of varying parameter recurrent neural network with application to matrix inversion, *Mathematics and Computers in Simulation* 185 (2021), 614-628, doi: 10.1016/j.matcom.2021.01.018. (M21a) (Q1)

- [276] B. Ivanov, P.S. Stanimirović, B. Shaini, H. Ahmad, M.-K. Wang, A novel value for the parameter in the Dai-Liao-type Conjugate Gradient method, *Journal of Function Spaces*, Volume 2021, Article ID 6693401, 10 pages, <https://doi.org/10.1155/2021/6693401>. (M21a) (Q1)
- [275] V.N Katsikis, S.D. Mourtas, P.S. Stanimirović, Y. Zhang, Solving complex-valued time-varying linear matrix equations via QR decomposition with applications to robotic motion tracking and on angle-of-arrival localization, *IEEE Transactions on Neural Networks and Learning Systems* 33(8), (2021), 3415-3424. doi: 10.1109/TNNLS.2021.3052896. (M21a) (Q1)
- [274] D. Mosić, P.S. Stanimirović, Representations for the weak group inverse, *Applied Mathematics and Computation*, 397 (2021), 125957, doi: 10.1016/j.amc.2021.125957. (M21a) (Q1)
- [273] D. Mosić, I. Kyrchei, P.S. Stanimirović, Representations and properties for the MPCEP inverse, *Journal of Applied Mathematics and Computing* 67 (2021), 101-130, doi: 10.1007/s12190-020-01481-x. (M21a)
- [272] D. Mosić, P.S. Stanimirović, J.K. Sahoo, R. Behera, V.N. Katsikis, One-sided weighted outer inverses of tensors, *Journal of Computational and Applied Mathematics* 38 (2021), 10.1016/j.cam.2020.113293. (M21)
- [271] D. Gerontitis, R. Behera, J.K. Sahoo, P.S. Stanimirović, Improved finite-time zeroing neural network for time-varying division, *Studies in Applied Mathematics* 146(2) (2021), 526-549. (M21a) (Q1)
- [270] I.I. Kyrchei, D. Mosić, P.S. Stanimirović, Solvability of new constrained quaternion matrix approximation problems based on core-EP inverses, *Advances in Applied Clifford Algebras* 31(3) (2021), DOI:10.1007/s00006-020-01102-7. (M22)
- [269] P.S. Stanimirović, B. Ivanov, H. Ma, D. Mosić, A survey of gradient methods for solving nonlinear optimization, *Electronic Research Archive* 28(4) (2020), 1573-1624, doi: 10.3934/era.2020115. (M21)
- [268] P.S. Stanimirović, V.N. Katsikis, D. Gerontitis, A new varying-parameter design formula for solving time-varying problems, *Neural Processing Letters* 53 (2021), 107-129, 10.1007/s11063-020-10386-6. (M22)
- [267] D. Mosić, P.S. Stanimirović, V.N. Katsikis, Solvability of some constrained matrix approximation problems using core-EP inverses, *Computational and Applied Mathematics*, 39, 311 (2020), <https://doi.org/10.1007/s40314-020-01360-y>. (M21)
- [266] R. Behera, D. Mosić, J.K. Sahoo, P.S. Stanimirović, Weighted inner inverse for rectangular matrices, *Quaestiones Mathematicae* 45(1) (2022), 11-39. <https://doi.org/10.2989/16073606.2020.1836688>. (M21)
- [265] H. Ahmad, T.A. Khan, I. Ahmad, P.S. Stanimirović, Y.-M. Chu, A new analyzing technique for nonlinear time fractional Cauchy reaction-diffusion model equations, *Results in Physics* 19 (2020), 103462, <https://doi.org/10.1016/j.rinp.2020.103462>. (M21)
- [264] H. Ahmad, T.A. Khan, P.S. Stanimirović, Y.-M. Chu, Modified Variational Iteration Algorithm-II: convergence and applications to diffusion models, *Complexity*, Volume 2020, Article ID 8841718, 14 pages, <https://doi.org/10.1155/2020/8841718>. (M21)
- [263] F. Selimović, P.S. Stanimirović, M. Saračević, S. Pepić, Encryption of 3D plane in GIS using Voronoi-Delaunay triangulations and Catalan numbers, *Facta Universitatis (Niš) Ser. Math. Inform.* 35(4) (2020), 1205-1217. (M51)
- [262] H. Ahmad, A. Akgül, T.A. Khan, P.S. Stanimirović, S.-Wen Yao, New perspective on the conventional solutions of the nonlinear time-fractional partial differential equations, *Complexity*, Volume 2020, Article ID 8829017, 10 pages <https://doi.org/10.1155/2020/8829017>. (M21)
- [261] D. Karabašević, D. Stanujkić, E.K. Zavadskas, P.S. Stanimirović, G. Popović, B. Predić, A. Ulutaş, A Novel Extension of the TOPSIS Method adapted for the use of Single-Valued neutrosophic sets and Hamming distance for E-commerce development strategies selection, *Symmetry*, 12 (2020), 1263; doi:10.3390/sym12081263. (M22) (Q2)
- [260] F. Selimović, P.S. Stanimirović, M. Saračević, A. Selimi, P. Krtolica, Authentication based on the image encryption using Delaunay triangulation and Catalan objects, *Acta Polytechnica Hungarica* 17(6) (2020), 207-224. (M22)
- [259] I. Brajević, P.S. Stanimirović, A hybrid firefly and multi-strategy artificial bee colony algorithm, *International Journal of Computational Intelligence Systems*, 13(1) (2020), 810-812, doi: 10.2991/ijcis.d.200612.001. (M22)
- [258] J.K. Sahoo, R. Behera, P.S. Stanimirović, V.N. Katsikis, Computation of outer inverses of tensors using the QR decomposition, *Computational and Applied Mathematics*, 39,199 (2020), DOI: 10.1007/s40314-020-01225-4. (M21)
- [257] V.N. Katsikis, S.D. Mourtas, P.S. Stanimirović, S. Li, X. Cao, Time-varying minimum-cost portfolio Insurance under transaction costs problem via Beetle Antennae Search algorithm (BAS), *Applied Mathematics and Computation* 385 (2020), <https://doi.org/10.1016/j.amc.2020.125453>. (M21a) (Q1)
- [256] D. Gerontitis, L. Moysis, P.S. Stanimirović, V. N. Katsikis, C. Volos, Varying-parameter finite-time Zeroing Neural Network for solving linear algebraic systems, *Electronics Letters* 56(16) (2020), 810-813. (M23)
- "In brief," in *Electronics Letters*, vol. 56, no. 16, pp. 798-798, 6 8 2020, doi: 10.1049/el.2020.2072.

- [255] H. Ahmad, T.A. Khan, P.S. Stanimirović, I. Ahmad, Modified Variational Iteration Technique for the numerical solution of fifth order KdV type equations, *Journal of Applied and Computational Mechanics* 6 (2020), 1220-1227. <https://doi.org/10.22055/JACM.2020.33305.2197>.
- [254] A.H. Khan, X. Cao, V.N. Katsikis, P.S. Stanimirović, I. Brajević, S. Li, S. Kadry, Y. Nam, Optimal portfolio management for engineering problems using nonconvex cardinality constraint: a computing perspective, *IEEE Access* 8(1) (2020), 57437-57450, doi: 10.1109/ACCESS.2020.2982195. (M21) (Q2)
- [253] H. Ma, X. Gao, P.S. Stanimirović, Characterizations, iterative method, sign pattern and perturbation analysis for the DMP Inverse with its applications, *Applied Mathematics and Computation* 378 (2020), <https://doi.org/10.1016/j.amc.2020.125196>. (M21a) (Q1)
- [252] P.S. Stanimirović, Y. Wei, Computing generalized inverses using gradient-based dynamical systems, In: *Hot Topics in Linear Algebra* (editor Ivan Kyrchei), Series: Mathematics Research Development, Nova Science Publishers Inc, New York, 2020, ISBN: 978-1-53617-770-1. (M29a)
- [251] P.S. Stanimirović, D. Mosić, H. Ma, New classes of more general weighted outer inverses, *Linear Multilinear Algebra* 70 (2022), 122-147, 10.1080/03081087.2020.1713712. (M21)
- [250] P.S. Stanimirović, F. Roy, D.K. Gupta, S. Srivastava, Computing the Moore-Penrose inverse using its error bounds, *Applied Mathematics and Computation* 371 (2020), <https://doi.org/10.1016/j.amc.2019.124957>. (M21a) (Q1)
- [249] M.M. Zhou, J. Chen, P.S. Stanimirović, V.N. Katsikis, H. Ma, Complex varying-parameter Zhang neural networks for computing core and core-EP inverse, *Neural Processing Letters* 51 (2020), 1299-1329, 10.1007/s11063-019-10141-6. (M22)
- [248] S. Mašović, M.H. Sračević, P.S. Stanimirović, P.V. Krtolica, Computing triangulations of the convex polygon in PHP/MYSQL environment, *Facta Universitatis (Niš), Ser. Math. Inform.* 34(1) (2019), 137-147. (M52)
- [247] D. Guo, S. Li, P. S. Stanimirović, Analysis and application of modified ZNN design with robustness against harmonic noise, *IEEE Transactions on Industrial Informatics* 16(7) (2020), 4627-4638, doi: 10.1109/TII.2019.2944517. (M21a) (Q1)
- [246] J. K. Sahoo, R. Behera, P. S. Stanimirović, V.N. Katsikis, H. Ma, Core and Core-EP inverses of tensors, *Computational and Applied Mathematics* 39 (2020), [doi: 10.1007/s40314-019-0983-5](https://doi.org/10.1007/s40314-019-0983-5). (M22)
- [245] D. Mosić, P.S. Stanimirović, Composite outer inverses for rectangular matrices, *Quaestiones Mathematicae* 44(1) (2021), 45-72, doi: 10.2989/16073606.2019.1671526. (M21)
- [244] P.S. Stanimirović, V.N. Katsikis, S. Li, Higher-order ZNN dynamics, *Neural Processing Letters* 51 (2020), 697-721, doi: 10.1007/s11063-019-10107-8. (M22)
- [243] B. Ivanov, P.S. Stanimirović, G.V. Milovanović, S. Djordjević, I. Brajević, Accelerated multiple step-size methods for solving unconstrained optimization problems, *Optimization Methods and Software* 36(5) (2021), 998-1029. doi: 10.1080/10556788.2019.1653868. (M21)
- [242] P.S. Stanimirović, A. Kumar, V.N. Katsikis, Further efficient hyperpower iterative methods for the computation of generalized inverses $A_{\{T,S\}^{\{2\}}}$, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A-Matemáticas* 113 (2019), 3323-3339, doi: 10.1007/s13398-019-00696-3. (M21)
- [241] M.D. Petković, P.S. Stanimirović, Zeroing Neural Network Based on the Equation $AXA = A$, Chapter No 18 in M. Ćirić, M. Droste, J.-E. Pin (eds.): *CAI 2019. Lecture Notes in Computer Science*, vol 11545. Springer, Cham., pp. 213-224. https://doi.org/10.1007/978-3-030-21363-3_18. (M13)
- [240] P.S. Stanimirović, Y. Wei, D. Kolundžija, J.R. Sendra, J. Sendra, An Application of Computer Algebra and Dynamical Systems, Chapter No 19 in: M. Ćirić, M. Droste, J.-E. Pin (eds.): *CAI 2019. Lecture Notes in Computer Science*, vol 11545. Springer, Cham., pp. 225-236. https://doi.org/10.1007/978-3-030-21363-3_19. (M13)
- [239] H. Ma, P.S. Stanimirović, Characterizations, approximation and perturbations of the core-EP inverse, *Applied Mathematics and Computation* 359 (2019), 404-417, doi: 10.1016/j.amc.2019.04.071. (M21a) (Q1)
- [238] P.S. Stanimirović, V.N. Katsikis, S. Srivastava, D. Pappas, A class of quadratically convergent iterative methods, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A-Matemáticas* 113 (2019), 3125-3146, doi: 10.1007/s13398-019-00681-w. (M21)
- [237] H. Ma, N. Li, P.S. Stanimirović, V.N. Katsikis, Perturbation theory for Moore-Penrose inverse of tensor via Einstein product, *Computational and Applied Mathematics* 38:111 (2019), DOI: 10.1007/s40314-019-0893-6. (M22)
- [236] P.S. Stanimirović, M.D. Petković, Improved GNN models for constant matrix inversion, *Neural Processing Letters* 50(1) (2019), 321-339, 10.1007/s11063-019-10025-9. [10.1007/s11063-019-10025-9](https://doi.org/10.1007/s11063-019-10025-9). (M22)
- [235] P.S. Stanimirović, V.N. Katsikis, Z. Zhang, S. Li, J. Chen, M.M. Zhou, Varying-parameter Zhang Neural Network for approximating some expressions involving outer inverses, *Optimization Methods and Software* 35(6) (2020), 1304-1330, doi: 10.1080/10556788.2019.1594806. (M21)
- [234] Y. Ke, J. Chen, P.S. Stanimirović, M. Ćirić, Characterizations and representations of outer inverse for matrices over a ring, *Linear Multilinear Algebra* 69(1) (2021), 155-176, doi: 10.1080/03081087.2019.1590302. (M21)

- [233] T. Saha, S. Srivastava, S. Khare, P.S. Stanimirović, M.D. Petković, An improved algorithm for basis pursuit problem and its applications, *Applied Mathematics and Computation* 355 (2019), 385-398, doi: 10.1016/j.amc.2019.02.073. (M21a) (Q1)
- [232] B.I. Shaini, P.S. Stanimirović, Iterations for approximating limit representations of generalized inverses, *Facta Universitatis (Niš), Ser. Math. Inform.* 33(4) (2018), 505-516.
- [231] P.S. Stanimirović, X.-Z. Wang, H. Ma, Complex ZNN for computing time-varying weighted pseudo-inverses, *Applicable Analysis and Discrete Mathematics* 13 (2019), 131-164, doi: 10.2298/AADM170628019S. (M21)
- [230] D. Pappas, V.N. Katsikis, P.S. Stanimirović, The λ -Aluthge transform of EP matrices, *Filomat*, 32:12 (2018), 4403-4411, doi: 10.2298/FIL1812403P. (M21)
- [229] I. Brajević, P.S. Stanimirović, An improved chaotic firefly algorithm for global numerical optimization, *International Journal of Computational Intelligence Systems (IJCIS)*, 12 (2018), 131-148. (M22)
- [228] M.J. Petrović, P.S. Stanimirović, N. Kontrec, J. Mladenović, Hybrid modification of accelerated double direction method, *Mathematical Problems in Engineering*, 2018, Article ID 1523267, 8 pages, <https://doi.org/10.1155/2018/1523267>. (M22)
- [227] P.S. Stanimirović, V.N. Katsikis, S. Li, Integration Enhanced and noise tolerant ZNN for computing various expressions involving outer inverses, *Neurocomputing* 329 (2019), 129-143, doi: 10.1016/j.neucom.2018.10.054. (M21)
- [226] P.S. Stanimirović, M. Ćirić, V.N. Katsikis, C. Li, H. Ma, Outer and (b,c) inverses of tensors, *Linear Multilinear Algebra* 68 (2020), 940-971, doi: 10.1080/03081087.2018.1521783. (M21)
- [225] P.S. Stanimirović, V.N. Katsikis, D. Kolundžija, Inversion and pseudoinversion of block arrowhead matrices, *Applied Mathematics and Computation* 341 (2019), 379-401. (M21a) (Q1)
- [224] P.S. Stanimirović, V.N. Katsikis, S. Li, Hybrid GNN-ZNN models for solving linear matrix equations, *Neurocomputing* 316 (2018), 124-134, doi: 10.1016/j.amc.2018.09.006. (M21)
- [223] S. Mašović, I.A. Elshaarawy, P.S. Stanimirović, P. Krtolica, Orbiting triangle method for convex polygon triangulation, *Applicable Analysis and Discrete Mathematics*, 12 (2018), 439-454, doi: 10.2298/AADM170829013M. (M21)
- [222] M. Saračević, S. Mašović, P.S. Stanimirović, P. Krtolica, Method for finding and storing optimal triangulations based on square matrix, *Applied Sciences, Balkan Society of Geometers*, 20 (2018), 167-180.
- [221] P.S. Stanimirović, B. Ivanov, S. Djordjević, I. Brajević, New hybrid conjugate gradient and Broyden-Fletcher-Goldfarb-Shanno conjugate gradient methods, *Journal of Optimization Theory and Applications* 178 (2018), 860-884, doi: 10.1007/s10957-018-1324-3. (M21)
- [220] P.S. Stanimirović, M.D. Petković, Gradient neural dynamics for solving matrix equations and their applications, *Neurocomputing* 306 (2018), 200-212, doi: 10.1016/j.neucom.2018.03.058. (M21)
- [219] P. Krtolica, P.S. Stanimirović, I. Stojanović, An alternative decomposition of Catalan number, *Facta Universitatis, Ser. Math. Inf.* 33 (2018), 63-77. (M51)
- [218] F. Roy, D.K. Gupta, P.S. Stanimirović, An interval extension of SMS method for computing weighted Moore-Penrose inverse, *Calcolo* 55:5 (2018), doi.org/10.1007/s10092-018-0257-4. (M21a) (Q1)
- [217] M.D. Petković, P.S. Stanimirović, V.N. Katsikis, Modified discrete iterations for computing the inverse and pseudoinverse of the time-varying matrix, *Neurocomputing* 289 (2018), 155-165, doi: 10.1016/j.neucom.2018.02.005. (M21)
- [216] I. Živković, P.S. Stanimirović, Matlab simulation of the hybrid of recursive neural dynamics for online matrix inversion, *Facta Universitatis, Series Mathematics and Informatics* 32 (2017), 799-809. (M51)
- [215] S. Srivastava, P.S. Stanimirović, V.N. Katsikis, D.K. Gupta, A family of iterative methods with accelerated convergence for restricted linear system of equations, *Mediterranean Journal of Mathematics* 14:222 (2017), DOI 10.1007/s00009-017-1020-9. (M21)
- [214] P.S. Stanimirović, S. Srivastava, D.K. Gupta, From Zhang Neural Network to scaled hyperpower iterations, *Journal of Computational and Applied Mathematics* 331 (2018), 133-155, doi: /10.1016/j.cam.2017.09.048. (M21)
- [213] X.-Z.Wang, P.S. Stanimirović, Y. Wei, Complex ZFs for computing time-varying complex outer inverses, *Neurocomputing* 275 (2018), 983-1001, doi: 10.1016/j.neucom.2017.09.034. (M21)
- [212] P.S. Stanimirović, M.D. Petković, D. Gerontitis, Gradient neural network with nonlinear activation for computing inner inverses and the Drazin inverse, *Neural Processing Letters* 48 (2018), 109-133, doi: 10.1007/s11063-017-9705-4. (M22)
- [211] A. Kumar, P.S. Stanimirović, F. Soleymani, M. Krstić, K. Rajković, Factorizations of hyperpower family of iterative methods via least squares approach, *Computational and Applied Mathematics* 37 (3) (2018), 3226-3240, doi: 10.1007/s40314-017-0507-0. (M22)
- [210] I. Stojanović, I. Brajević, P.S. Stanimirović, L. Kazakovtsev, Z. Zdravev, Application of heuristic and metaheuristic algorithms in solving constrained Weber problem with feasible region bounded by arcs, *Mathematical*

- Problems in Engineering, Volume 2017, Article ID Article ID 8306732, 13 pages,
<https://doi.org/10.1155/2017/8306732>. (M22)
- [209] P.S. Stanimirović, M. Ćirić, I. Stojanović, D. Gerontitis, Conditions for existence, representations and computation of matrix generalized inverses, *Complexity*, Volume 2017, Article ID 6429725, 27 pages,
<https://doi.org/10.1155/2017/6429725>. (M21a)
- [208] I. Stojanović, P.S. Stanimirović, I.S. Živković, D. Gerontitis, X.-Z. Wang, ZNN models for computing matrix inverse based on hyperpower iterative methods, *Filomat* 31 (2017), 2999-3014, doi: 10.2298/FIL1710999S. (M21)
- [207] P.S. Stanimirović, V.N. Katsikis, D. Pappas, Computation of $\{2,4\}$ and $\{2,3\}$ -inverses based on rank-one updates, *Linear and Multilinear Algebra* 66 (2018), 147-166, doi: 10.1080/03081087.2017.1290042. (M21)
- [206] X.-Z. Wang, H. Ma, P.S. Stanimirović, Nonlinearly activated recurrent neural network for computing the Drazin inverse, *Neural Processing Letters* 46 (2017), 195–217, doi: 10.1007/s11063-017-9581-y. (M22)
- [205] X.-Z. Wang, H. Ma, P.S. Stanimirović, Recurrent Neural Network for computing the W-Weighted Drazin inverse, *Applied Mathematics and Computation* 300 (2017), 1-20, doi: 10.1016/j.amc.2016.11.030. (M21a) (Q1)
- [204] S. Srivastava, D.K. Gupta, S. Singh, P.S. Stanimirović, A hyperpower iterative method for computing the generalized Drazin inverse of Banach algebra element, *Sadhana - Academy Proceedings in Engineering Sciences* 42(5) (2017), 625–630, doi: 10.1007/s12046-017-0607-y. (M23)
- [203] P.S. Stanimirović, Some identities involving sums of Lucas numbers, *Jour. Pure Math.* 31 (2014), 103–119.
- [202] P.S. Stanimirović, V.N. Katsikis, I. Stojanović, Computing the pseudoinverse of specific Toeplitz matrices using rank-one updates, *Mathematical Problems in Engineering* 2016 (2016), Article ID 9065438, 16 pages,
<http://dx.doi.org/10.1155/2016/9065438>. (M23)
- [201] P.S. Stanimirović, V.N. Katsikis, H. Ma, Representations and properties of the W-Weighted Drazin inverse, *Linear and Multilinear Algebra* 65 (2017), 1080-1096, doi: 10.1080/03081087.2016.1228810. (M21)
- [200] X.-Z. Wang, Y. Wei, P.S. Stanimirović, Complex neural network models for time-varying Drazin inverse, *Neural Computation* 28 (2016), 2790–2824, doi: 10.1162/NECO_a_00866. (M21)
- [199] P.S. Stanimirović, I. Živković, Y. Wei, Neural network approach to computing outer inverses based on the full rank representation, *Linear Algebra and its Applications* 501 (2016), 344-362, doi: 10.1016/j.laa.2016.03.035. (M21)
- [198] I. Živković, P.S. Stanimirović, Y. Wei, Recurrent neural network for computing outer inverse, *Neural Computation* 28:5 (2016), 970-998, doi:10.1162/NECO_a_00821. (M21)
- [197] Y. Xia, P.S. Stanimirović, S. Zhang, Neural network for computing pseudoinverses and outer inverses of complex-valued matrices, *Applied Mathematics and Computation* 273 (2016), 1107-1121, doi: 10.1016/j.amc.2015.10.046. (M21a)
- [196] P.S. Stanimirović, F. Soleymani, F.K. Haghani, Computing outer inverses by scaled matrix iterations, *Journal of Computational and Applied Mathematics* 296 (2016), 89-101, doi: /10.1016/j.cam.2015.09.013. (M21)
- [195] P.S. Stanimirović, V.N. Katsikis, D. Pappas, Computing $\{2,4\}$ and $\{2,3\}$ -inverses by using the Sherman-Morrison formula, *Applied Mathematics and Computation* 273 (2015), 584-603, doi: 10.1016/j.amc.2015.10.023. (M21)
- [194] F. Soleymani, P.S. Stanimirović, F. Soleymani, Some matrix iterations for computing generalized inverses and balancing chemical equations, *Algorithms* 8 (2015), 982-998, doi:10.3390/a8040982.
- [193] F. Soleymani, P.S. Stanimirović, F.K. Haghani, On hyperpower family of iterations for computing outer inverses possessing high efficiencies, *Linear Algebra and its Applications* 484 (2015), 477-495, doi: 10.1016/j.laa.2015.07.010. (M21)
- [192] I.A. Osinuga, P.S. Stanimirović, L. Kazakovtsev, S.A. Akinleye, A modeling framework on distance predicting functions for location models in continuous space, *Facta Universitatis, Series Mathematics and Informatics* 30 (2015), 419-443.
- [191] F. Soleymani, P.S. Stanimirović, I. Stojanović, A Novel Iterative Method for Polar Decomposition and Matrix Sign Function, *Discrete Dynamics in Nature and Society* (2015), Volume 2015, Art. ID 649423, 11 Pages, .
<http://dx.doi.org/10.1155/2015/649423>. (M22)
- [190] P.S. Stanimirović, I. Živković, Y. Wei, Recurrent neural network approach based on the integral representation of the Drazin inverse, *Neural Computation* 27 (2015), 2107-2131, doi: 10.1162/NECO_a_00771. (M22)
- [189] F. Soleymani, P.S. Stanimirović, J.R. Torregrosa, H.S. Nik, E. Tohidi, Recent Theories and Applications in Approximation Theory, *The Scientific World Journal, Special Issue: Recent Theories and Applications in Approximation Theory*, vol. 2015, Article ID 598279, 2 pages, 2015. doi:10.1155/2015/598279. (M21)
- [188] P.S. Stanimirović, G.V. Milovanović, M.J. Petrović, N. Kontrec, Transformation of Accelerated Double Step Size method for unconstrained optimization, *Mathematical Problems in Engineering* vol. 2015, Article ID 283679, 8 pages, 2015. doi:10.1155/2015/283679. (M23)
- [187] P.S. Stanimirović, I. Stojanović, D. Pappas, Z. Zdravev, On removing blur in images using least squares solutions, *Filomat* 30 (2016), 3855-3866, doi: 10.2298/FIL1614855S. (M21)

- [186] P.S. Stanimirović, I. Stojanović, D. Pappas, Z. Zdravev, V.N. Katsikis, Application of the least squares solutions in image deblurring, *Mathematical Problems in Engineering*, vol. 2015, Article ID 298689, 18 pages, <http://dx.doi.org/10.1155/2015/298689>. (M22)
- [185] P.S. Stanimirović, D. Pappas, V.N. Katsikis, M.S. Cvetković, Outer inverse restricted by a linear system, *Linear and Multilinear Algebra* 63 (2015), 2461-2493, doi: 10.1080/03081087.2015.1019200. (M22)
- [184] P.S. Stanimirović, I. Živković, Y. Wei, Recurrent Neural Network for Computing the Drazin Inverse, *IEEE Transactions on Neural Networks and Learning Systems*, 26(11) (2015), 2830-2843, doi: 10.1109/TNNLS.2015.2397551. (M21a)
- [183] P.S. Stanimirović, D. Pappas, V.N. Katsikis, Minimization of quadratic forms and generalized Inverses, In: *Advances in Linear Algebra Research* (editor Ivan Kyrchei), Nova Science Publishers Inc, New York, 2015, ISBN: 978-1-63463-565-3.
- [182] L.A. Kazakovtsev, P.S. Stanimirović, Algorithm for Weber problem with a metric based on the initial fare, *J. Appl. Math. & Informatics* 33 (2015), 157-172, doi: 10.14317/jami.2015.157.
- [181] P.S. Stanimirović, D. Pappas, V.N. Katsikis, Generalized inverse restricted by the normal Drazin equation, *Linear and Multilinear Algebra*, 65 (2015), 893-913, doi: 10.1080/03081087.2014.908873. (M22)
- [180] M.H. Saračević, P.S. Stanimirović, P.V. Krtolica, S.H. Mašović, Construction and notation of convex polygon triangulation based on Ballot problem, *ROMJIST - Journal of Information Science and Technology* 17 (2014), 237-251. (M23)
- [179] M. Petrović, P.S. Stanimirović, Representations and computations of $\{2,3\}$ - and $\{2,4\}$ -inverses in indefinite inner product spaces, *Applied Mathematics and Computation* 254 (2015) 157-171, doi: 10.1016/j.amc.2014.12.100. (M21)
- [178] L. Kazakovtsev, P.S. Stanimirović, I.A. Osinuga, M. Gudyma, A. Antamoshkin, Algorithms for Location Problems Based on Angular Distances, *Advances in Operations Research*, 2014, Article ID 701267, 12 pages, <http://dx.doi.org/10.1155/2014/701267>. (M24)
- [177] A.S. Randelović, P.S. Stanimirović, Application of block Cayley-Hamilton theorem to generalized inversion, *Facta Universitatis, Series Mathematics and Informatics* 29 (2014), 289-312. (M51)
- [176] F. Soleymani, S. Shateyi, P.S. Stanimirović, F.K. Haghani, Approximating the matrix sign function using a novel iterative method, *Abstract and Applied Analysis*, Article ID 105301, 9 pages, 2014. doi:10.1155/2014/105301. (M21a)
- [175] P. Krtolica, P.S. Stanimirović, Tasić, M, Pepić, S, Triangulation of convex Polygon with storage support, *Facta Universitatis, Series Mathematics and Informatics* 29 (2014), 189-208. (M51)
- [174] M.J. Petrović, P.S. Stanimirović, Accelerated Double Direction method for solving unconstrained optimization problems, *Mathematical Problems in Engineering*, vol. 2014, Article ID 965104, 8 pages, 2014. doi:10.1155/2014/965104. (M21)
- [173] M.D. Petković, P.S. Stanimirović, Two improvements of the iterative method for computing Moore-Penrose inverse based on Penrose equations, *Journal of Computational and Applied Mathematics* 267 (2014), 61-71, doi: 10.1016/j.cam.2014.01.034. (M21)
- [172] M.H. Saračević, P.S. Stanimirović, S. Mašović, Object-oriented analysis and design for one algorithm of computational geometry: Forward, reverse and round-trip engineering, *Journal of Information Technology and Applications* 3 (2013), 96-106. (M51)
- [171] P.S. Stanimirović, F. Soleymani, A class of numerical algorithms for computing outer inverses, *Journal of Computational and Applied Mathematics* 263 (2014), 236-245, doi: 10.1016/j.cam.2013.12.033. (M21)
- [170] P.S. Stanimirović, D. Pappas, S. Miljković, Minimization of quadratic forms using the Drazin-inverse solution, *Linear and Multilinear Algebra* 62 (2014), 252-266, doi: 10.1080/03081087.2013.771639. (M21)
- [169] P.S. Stanimirović, I. Stojanović, S. Chountasis, D. Pappas, Image deblurring process based on separable restoration methods, *Computational and Applied Mathematics* 33 (2014), 301-323, doi: 10.1007/s40314-013-0062-2. (M23)
- [168] S. Miljković, M. Miladinović, P.S. Stanimirović, Minimal properties of the Drazin-inverse solution of a matrix equation, *Filomat* 28:8 (2014), 383-395, doi: 10.2298/FIL1402383M. (M21)
- [167] P.S. Stanimirović, P.V. Krtolica, M.H. Saračević, S. Mašović, Decomposition of Catalan numbers and convex polygon triangulations, *International Journal of Computer Mathematics* 91(6) (2014), 1315-1328, doi: 10.1080/00207160.2013.837894. (M22)
- [166] S. Mašović, M.H. Saračević, P.S. Stanimirović, Alpha-Numeric notation for one Data Structure in Software Engineering, *Acta Polytechnica Hungarica* 11(1) (2014), 193-204. (M23)
- [165] F. Soleymani, P.S. Stanimirović, A note on the stability of a pth order iteration for finding generalized inverses, *Applied Mathematics Letters* 28 (2014), 77-81, doi: 10.1016/j.aml.2013.10.004. (M21)
- [164] F. Soleymani, P.S. Stanimirović, A higher order iterative method for computing the Drazin inverse, *Scientific World Journal* 2013 (2013), Article ID 708647, 11 pages <http://dx.doi.org/10.1155/2013/708647>. (M21)
-

- [163] P.S. Stanimirović, M. Miladinović, I. Stojanović, S. Miljković, Application of the Partitioning method in removal of blur in images, *International Journal of Applied Mathematics and Computer Science (AMCS)* 23(4) (2013), 809-821, doi: 10.2478/amcs-2013-0061. (M21)
- [162] F. Soleymani, P.S. Stanimirović, M.Z. Ullah, An accelerated iterative method for computing weighted Moore-Penrose inverse, *Applied Mathematics and Computation* 222 (2013), 365-371, doi: 10.1016/j.amc.2013.07.039. (M21)
- [161] M.D. Petković, P.S. Stanimirović, Block recursive computation of generalized inverses, *Electronic Journal of Linear Algebra* 26 (2013), 394-405. (M22)
- [160] I.A. Osinuga, L.A. Kazakovtsev, P.S. Stanimirović, Planar Weber location problem with French Metro metric, *Rev. Bull. Cal. Math. Soc.* 21 (2013), 7-20. (M51)
- [159] S. Miljković, M. Miladinović, P.S. Stanimirović, Y. Wei, Gradient methods for computing the Drazin-inverse solution, *Journal of Computational and Applied Mathematics* 253 (2013), 255-263, doi: 10.1016/j.cam.2013.04.030. (M21)
- [158] S. Miljković, M. Miladinović, P.S. Stanimirović, D.S. Djordjević, Scalar correction method for finding least-squares solutions on Hilbert spaces and its applications, *Applied Mathematics and Computation* 219 (2013), 9639-9651, doi: 10.1016/j.amc.2013.03.001. (M21)
- [157] P.S. Stanimirović, S. Chountasis, D. Pappas, I. Stojanović, Removal of blur in images based on least squares solutions, *Mathematical Methods in the Applied Sciences* 36 (2013), 2280-2296, doi: 10.1002/mma.2751. (M22)
- [156] P.S. Stanimirović, Partitioning method: computations and applications, *International Journal of Mathematics, Game Theory and Algebra* 21 (2012), 393-450. (M51)
- [155] M.H. Saračević, P.S. Stanimirović, S. Mašović, Implementation of some algorithms in computer graphics in Java, *TTEM - Technics Technologies Education Management* 8 (2013), 293-300. (M23)
- [154] P.S. Stanimirović, M.D. Petković, Gauss-Jordan elimination method for computing outer inverses, *Applied Mathematics and Computation* 219 (2013), 4667-4679, doi: 10.1016/j.amc.2012.10.081. (M21)
- [153] P.S. Stanimirović, Partitioning method: computations and applications, *International Journal of Mathematics, Game Theory and Algebra* 21 (2012), 393-450. (M51)
- [152] P.S. Stanimirović, P.V. Krtolica S. Mašović, M.H. Saračević, Block method for convex polygon triangulation, *ROMJIST - Journal of Information Science and Technology* 15 (2012), 344-354. (M23)
- [151] I. Stojanović, P.S. Stanimirović, M. Miladinović, D. Stojanović, Application of Non-Iterative Method in Image Deblurring, *Journal of Computer Science and Control Systems* 5 (2012), 99-102. (M51)
- [150] P.S. Stanimirović, M. Ćirić, L.A. Kazakovtsev, I.A. Osinuga, Single-facility Weber location problem based on the lift metric, *Facta Universitatis, Series Mathematics and Informatics* 27 (2012), 175-190. (M51)
- [149] M.H. Saračević, P.S. Stanimirović, S. Mašović, E. Biševac, Implementation of the convex polygon triangulation algorithm, *Facta Universitatis, Series Mathematics and Informatics* 27 (2012), 213-228. (M51)
- [148] N. Stojković, P.S. Stanimirović, D. Milojković, M.D. Petković, On the simplex algorithm initializing, *Abstract and Applied Analysis* 2012 (2012), Article ID 487870, 15 pages doi:10.1155/2012/487870. (M21a)
- [147] P.S. Stanimirović, M.B. Tasić, M. Saračević, S. Mašović, UML-based modeling for the Moore-Penrose inverse computation, *Metalurgia International* 17(12) (2012), 99-106. (M23)
- [146] I. Stojanović, P.S. Stanimirović, M. Miladinović, Applying the algorithm of Lagrange multipliers in digital image restoration, *Facta Universitatis, Series Mathematics and Informatics* 27 (2012), 41-54. (M51)
- [145] I. Jovanović, P.S. Stanimirović, Ž. Živković, Environmental and economic criteria in ranking of copper concentrates, *Environmental Modeling and Assessment* 18 (2013), 73-83, doi: 10.1007/s10666-012-9327-1. (M23)
- [144] P.S. Stanimirović, D. Pappas, V.N. Katsikis, I.P. Stanimirović, Symbolic computation of $A_{\{T,S\}}^{\{2\}}$ -inverses using QDR factorization, *Linear Algebra and its Applications* 437 (2012), 1317-1331, doi: 10.1016/j.laa.2012.04.026. (M22)
- [143] P.S. Stanimirović, D. Pappas, V.N. Katsikis, I. Stanimirović, Full-rank representations of outer inverses based on the QR decomposition, *Applied Mathematics and Computation* 218 (2012), 10321-10333, doi: 10.1016/j.amc.2012.04.011. (M21)
- [142] S. Miljković, M. Miladinović, P.S. Stanimirović, I. Stojanović, Application of the pseudoinverse computation in reconstruction of blurred images, *Filomat* 26(3) (2012), 453-465, doi: 10.2298/FIL1203453M. (M22)
- [141] I. Jovanović, P.S. Stanimirović, A blending problem in copper production, *Environmental Modeling and Assessment* 17 (2012), 495-503, doi: 10.1007/s10666-012-9309-3. (M23)
- [140] S.P. Stanimirović, P.S. Stanimirović, Ballot matrix as Catalan matrix power and related identities, *Discrete and Applied Mathematics* 160 (2012), 344-351, doi: 10.1016/j.dam.2011.10.016. (M22)
- [139] M. Miladinović, S. Miljković, P.S. Stanimirović, Modified SMS method for computing outer inverses of Toeplitz matrices, *Applied Mathematics and Computation* 218 (2011), 3131-3143, doi: 10.1016/j.amc.2011.08.046. (M21)

- [138] D. Cvetković-Ilić, P.S. Stanimirović, S. Miljković, M. Miladinović, Comments on some recent results concerning $\{2,3\}$ and $\{2,4\}$ -generalized inverses, *Applied Mathematics and Computation* 218 (2011), 1512-1514, doi: 10.1016/j.amc.2011.07.048. (M21)
- [137] P.S. Stanimirović, M. Ćirić, Discrete location problem on arbitrary surface in R^3 , *Facta Universitatis, Ser. Math. Inform.* 25 (2010), 47-56. (M51)
- [136] M. Miladinović, P.S. Stanimirović, S. Miljković, Scalar Correction Method for solving large scale unconstrained minimization problems, *Journal of Optimization Theory and Applications* 151 (2011), 304-320, doi: 10.1007/s10957-011-9864-9. (M21)
- [135] P.S. Stanimirović, D. Cvetković-Ilić, S. Miljković, M. Miladinović, Full-rank representations of $\{2,3\},\{2,4\}$ -inverses and successive matrix squaring algorithm, *Applied Mathematics and Computation* 217 (2011), 9358-9367, doi: 10.1016/j.amc.2011.04.024. (M21)
- [134] P.S. Stanimirović, Partitioning method: computations and applications, In: *Advances in Mathematics Research*, Volume 16, Chapter 3, Editor: Albert R. Baswell, Nova Science Publishers, Inc, Hauppauge, New York, 2011, pp. 93-150.
- [133] P.S. Stanimirović, M.Lj. Zlatanović, Determinantal representation of outer inverses in Riemannian space, *Algebra Colloquium* 19 (spec01) (2012), 877-892. (M23)
- [132] M.D. Petković, B. Tasić, P.S. Stanimirović, Effective partitioning method for computing generalized inverses and their gradients, *Applied Mathematics and Computation* 217 (2011), 7588-7598, doi: 10.1016/j.amc.2011.02.051. (M21)
- [131] M.B. Tasić, P.S. Stanimirović, S.H. Pepić, Computation of generalized inverses using Php/MySql environment, *International Journal of Computer Mathematics* 88 (2011), 2429-2446, doi: 10.1080/00207160.2010.541453. (M23)
- [130] M.D. Petković, P.S. Stanimirović, Iterative method for computing Moore-Penrose inverse based on Penrose equations, *Journal of Computational and Applied Mathematics* 235 (2011), 1604-1613, doi: 10.1016/j.cam.2010.08.042. (M21)
- [129] P.S. Stanimirović, M. Miladinović, Inversion of the generalized Fibonacci matrix by convolution, *International Journal of Computer Mathematics* 88 (2011), 1519-1532, doi: 10.1080/00207160.2010.521546. (M23)
- [128] P.S. Stanimirović, S.P. Stanimirović, Inverting linear combinations of identity and generalized Catalan matrices, *Linear Algebra and its Applications* 433 (2010), 1472-1480, doi: 10.1016/j.laa.2010.06.026. (M22)
- [127] M.B. Tasić, P.S. Stanimirović, Differentiation of generalized inverses for rational and polynomial matrices, *Applied Mathematics and Computation* 216 (2010), 2092-2106, doi: 10.1016/j.amc.2010.03.043. (M21)
- [126] P.S. Stanimirović, S.P. Stanimirović, Inversion of Catalan matrix plus one, *Journal of Applied Mathematics and Computing* 35 (2011), 497-505, doi: 10.1007/s12190-009-0373-z. (M24)
- [125] P.S. Stanimirović, M. Miladinović, Singular case of generalized Fibonacci and Lucas matrices, *Journal of Korean Mathematical Society* 48 (2011), 33-48, doi: 10.4134/JKMS.2011.48.1.033. (M23)
- [124] P.S. Stanimirović, M. Miladinović, Accelerated gradient descent methods with line search, *Numerical Algorithms* 54 (2010), 503-520, doi: 10.1007/s11075-009-9350-8. (M22)
- [123] P.S. Stanimirović, M.B. Tasić, On the Leverrier-Faddeev algorithm for computing the Moore-Penrose inverse, *J. Applied Mathematics and Computation* 35 (2011), 135-141, doi: 10.1007/s12190-009-0347-1. (M21)
- [122] M.B. Tasić, P.S. Stanimirović, S.H. Pepić, About the generalized LM-inverse and the Weighted Moore-Penrose inverse, *Applied Mathematics and Computation* 216 (2010), 114-124, doi: 10.1016/j.amc.2010.01.019. (M21)
- [121] P.S. Stanimirović, M. Miladinović, I. Jovanović, Computer algebra and line search, In *Approximation & Computation: In Honor of Gradimir V. Milovanović* (W. Gautchi, G. Mastroianni, Th. M. Rassias, eds), Springer Verlag, 2011, Series: Springer Optimization and Its Applications, Vol. 42, 425-438, <http://www.springer.com/gp/book/9781441965936>. (M13)
- [120] S. Vukašinović, P.S. Stanimirović, M.D. Petković, M. Ćirić, Turing machine and its symbolic implementation, *Facta Universitatis, Ser. Math. Inform.* 24 (2009), 53-72. (M51)
- [119] V.N. Stojković, P.S. Stanimirović, Finite termination and decreasing dimensions in Mehrotra's primal-dual algorithm, *Facta Universitatis, Ser. Math. Inform.* 24 (2009), 29-37. (M51)
- [118] P.S. Stanimirović, M. Miladinović, S. Djordjević, Multiplicative parameters in gradient descent methods, *Filomat* 23 (2009), 23-36. (M51)
- [117] I. Stanimirović, M.D. Petković, P.S. Stanimirović, M. Ćirić, Heuristic algorithm for single resource constrained project scheduling problem based on the dynamic programming, *YUJOR* 19 (2009), 281-298. (M24)
- [116] P.S. Stanimirović, N.V. Stojković, I. Jovanović, Symbolic implementation of interior point method for linear programming problem, *International Journal of Computational Mathematics* 87 (2010), 2173-2187, doi: 10.1080/00207160902721789. (M23)
- [115] P.S. Stanimirović, S.P. Stanimirović, M. Miladinović, A. Ilić, Catalan matrix and related combinatorial identities, *Applied Mathematics and Computation* 215 (2009), 796-805, doi: 10.1016/j.amc.2009.06.003. (M21)

- [114] P.S. Stanimirović, M.D. Petković, Lj. Zlatanović, Visualization in optimization with MATHEMATICA, *Filomat* 23 (2009), 68-81. (M51)
- [113] P.S. Stanimirović, M.B. Tasić, K.M. Vu, Extensions of Faddeev's algorithms to polynomial matrices, *Applied Mathematics and Computation* 214 (2009), 246-258, doi: 10.1016/j.amc.2009.03.076. (M21)
- [112] M.D. Petković, P.S. Stanimirović, Generalized matrix inversion is not harder than matrix multiplication, *J. Comput. Appl. Math.* 230 (2009), 270-282, doi: 10.1016/j.cam.2008.11.012. (M21)
- [111] N. Stojković, V. P.S. Stanimirović, M.D. Petković, Modification and implementation of two-phase simplex method, *International Journal of Computer Mathematics* 86 (2009), 1231-1242, doi: 10.1080/00207160701818992. (M23)
- [110] P.S. Stanimirović, D.S. Cvetković-Ilić, Successive matrix squaring algorithm for computing outer inverses, *Applied Mathematics and Computation* 203 (2008), 19-29, doi:10.1016/j.amc.2008.04.037. (M22)
- [109] M.B. Tasić, P.S. Stanimirović, Symbolic and recursive computation of different types of generalized inverses, *Applied Mathematics and Computation* 199 (2008), 349-367, doi: 10.1016/j.amc.2007.09.056. (M22)
- [108] P.S. Stanimirović, J. Nikolov, I. Stanimirović, I.P. A generalization of Fibonacci and Lucas matrices, *Discrete and Applied Mathematics* 156 (2008), 2606-2619, doi: 10.1016/j.dam.2007.09.028. (M22)
- [107] P.S. Stanimirović, I. Stanimirović, Implementation of polynomial multi-objective optimization in MATHEMATICA, *Structural and Multidisciplinary Optimization* 36 (2008), 411-428, doi: 10.1007/s00158-007-0180-9. (M21)
- [106] M.D. Petković, P.S. Stanimirović, M.B. Tasić, Effective Partitioning Method for Computing Weighted Moore-Penrose Inverse, *Computers and Mathematics with Applications* 55 (2008), 1720-1734, doi:10.1016/j.camwa.2007.07.014. (M22)
- [105] P.S. Stanimirović, Tasić, M, Computing generalized inverses using LU factorization of matrix product, *International Journal of Computer Mathematics* 85 (2008), 1865-1878, doi: 10.1080/00207160701582077. (M23)
- [104] P.S. Stanimirović, N.P. Karampetakis, M.B. Tasić, On the computation of the Drazin inverse of a polynomial matrix and application, *Far East Journal of Applied Mathematics* 26 (2007), 1-24. (M24)
- [103] M.B. Tasić, P.S. Stanimirović, M.D. Petković, Symbolic computation of weighted Moore-Penrose inverse using partitioning method, *Applied Mathematics and Computation* 189 (2007), 615-640, doi: 10.1016/j.amc.2006.11.114. (M22)
- [102] P.S. Stanimirović, N.P. Karampetakis, M.B. Tasić, Computing generalized inverses of a rational matrix and applications, *Journal of Applied Mathematics and Computing* 24 (2007), 81-94. (M24)
- [101] M.D. Petković, P.S. Stanimirović, Interpolation algorithm for computing Drazin inverse of polynomial matrices, *Linear Algebra and its Applications* 422 (2007), 526-539, doi: 10.1016/j.laa.2006.11.011. (M22)
- [100] P.S. Stanimirović, M.B. Tasić, P.V. Krtolica, N.P. Karampetakis, Generalized inversion by interpolation, *Filomat* 21:1 (2007), 67-86. (M24)
- [99] M.D. Petković, P.S. Stanimirović, Interpolation algorithm of Leverrier-Faddeev type for polynomial matrices, *Numerical Algorithms* 42 (2006), 345-361, doi: 10.1007/s11075-006-9044-4. (M23)
- [98] P.S. Stanimirović, S. Bogdanović, M. Ćirić, Adjoint Mappings and inverses of matrices, *Algebra Colloquium* 13 (2006), 421-432. (M23)
- [97] I. Stanimirović, M.D. Petković M, P.S. Stanimirović, Heuristic algorithm for single resource constrained project scheduling problem, *Proceedings from Strategic Management 2006, Jagodina, 1-3. june 2006*, 482-495.
- [96] M.D. Petković, P.S. Stanimirović, Computing generalized inverse of polynomial matrices by interpolation, *Applied Mathematics and Computation* 172 (2006), 508-523, . doi: 10.1016/j.amc.2005.02.031. (M22)
- [95] P.S. Stanimirović, N.V. Stojković, V. Kovačević-Vujčić, Stabilization of Mehrotra's primal-dual algorithm and its implementation, *European Journal of Operations Research* 165 (2005), 598-605, doi:10.1016/j.ejor.2003.07.024. (M21a)
- [94] M.B. Tasić, P.S. Stanimirović, I. Stanimirović, M.D. Petković, N.V. Stojković, Some useful MATHEMATICA teaching examples, *Facta Universitatis (Niš) Ser.: Elec. Energ.* 18 (2005), 329-344. (M51)
- [93] P.S. Stanimirović, D.S. Djordjević, Iterative methods for computing generalized inverses related with optimization methods, *Journal of Australian Mathematical Society* 78 (2005), 257-272. (M23)
- [92] M.D. Petković, P.S. Stanimirović, Symbolic computation of the Moore-Penrose inverse using partitioning method, *International Journal of Computer Mathematics* 82 (2005), 355-367, doi: 10.1080/00207160512331323353. (M23)
- [91] M.D. Petković, P.S. Stanimirović, Partitioning method for two-variable rational and polynomial matrices, *Mathematica Balkanica* 19 (2005), 185-194. (M24)
- [90] P.S. Stanimirović, N.V. Stojković, V. Kovačević-Vujčić, Some implementation details of modified Mehrotra's primal-dual algorithm, *XVI Conference on Applied Mathematics, N. Krejic, Z. Luzanin, eds. Department of Mathematics and Informatics, Novi Sad, 2004*, 149-156.

- [89] P.S. Stanimirović, N.V. Stojković, M.D. Petković, Run-time transformations of linear multi-objective optimization, XVI Conference on Applied Mathematics, N. Krejic, Z. Luzanin, eds. Department of Mathematics and Informatics, Novi Sad, 2004, 157-165.
- [88] D.S. Djordjević, P.S. Stanimirović, Y. Wei, The representation and approximations of outer generalized inverses, *Acta Mathematica Hungarica* 104 (2004), 1-26. (M23)
- [87] P.S. Stanimirović, M.B. Tasić, A modification of gradient method of convex programming and its application, *J. Applied Mathematics and Computing* 16 (2004), 91-104. (M22)
- [86] P.S. Stanimirović, Applications of hyper-power method for computing matrix products, *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat.* 15 (2004), 13-25. (M24)
- [85] P.S. Stanimirović, M.B. Tasić, Partitioning method for rational and polynomial matrices, *Applied Mathematics and Computation* 155 (2004), 137-163, doi: 10.1016/S0096-3003(03)00768-9. (M22)
- [84] P.V. Krtolica, P.S. Stanimirović, Reverse Polish notation Method, *International Journal of Computer Mathematics* 81 (2004), 273-284, doi: 10.1080/00207160410001660826. (M23)
- [83] S. Bogdanović, M. Ćirić, M. P.S. Stanimirović, T. Petković, Linear equations and regularity conditions on semigroups, *Semigroup Forum* 69 (2004), 63-74, doi: 10.1007/s00233-004-0110-8. (M22)
- [82] P.S. Stanimirović, P.V. Krtolica, N.P. Karampetakis, Using the interpolation in computing generalized inverses of a polynomial matrix, *Proceedings of the 4th International Conference on Informatics and Information Technology*, Ciit, Molika, December 11-14, Bitolj (2003), 406-413.
- [81] P.S. Stanimirović, N.V. Stojković, M.D. Petković, Several modifications of simplex method, *Filomat*, Niš 17 (2003), 169-176. (M24)
- [80] P.S. Stanimirović, A finite algorithm for generalized inverses of polynomial and rational matrices, *Applied Mathematics and Computation* 144 (2003), 199-214, doi: 10.1016/S0096-3003(02)00401-0. (M23)
- [79] P.S. Stanimirović, P.V. Krtolica, R. Stanojević, A non-recursive algorithm for polygon triangulation, *YUJOR* 13(1) (2003), 61-67. (M51)
- [78] P.S. Stanimirović, Self-correcting iterative methods for computing $\{2\}$ -inverses, *Arch. Math.* 39 (2003), 27-36.
- [77] P.S. Stanimirović, M.B. Tasić, A problem in computation of pseudoinverses, *Applied Mathematics and Computation* 135 (2003), 443-469. (M23)
- [76] M.D. Petković, P.S. Stanimirović, N.V. Stojković, A modification of revised simplex method, *Matematički Vesnik* 54 (2002), 163-169. (M24)
- [75] N.V. Stojković, P.S. Stanimirović, Transformations of dual problem and decreasing dimensions in linear programming, *Matematički Vesnik* 54 (2002), 203-210. (M24)
- [74] P.S. Stanimirović, M.B. Tasić, Computing determinantal representation of generalized inverses, *Korean Journal of Computational & Applied Mathematics* 9 (2002), 349-361. (M24)
- [73] P.S. Stanimirović, N.V. Stojković, B. Momčilović, Z. Jovanović, Augmented and normal equations system in Mehrotra's primal-dual algorithm, *Filomat* 2001, Niš 15 (2001), 285-292. (M24)
- [72] P.S. Stanimirović, M.B. Tasić, Drazin inverse of one-variable polynomial matrices, *Filomat*, Niš 15 (2001), 71-78. (M24)
- [71] P.V. Krtolica, P.S. Stanimirović, R. Stanojević, Reverse Polish notation method in constructing the algorithms for polygon triangulation, *Filomat*, Niš 15 (2001), 25-33. (M24)
- [70] P.S. Stanimirović, Algorithms for implementation of general limit representations of generalized inverses, *Journal of Computational Mathematics* 19 (2001), 561-570. (M23)
- [69] P.S. Stanimirović, Computation of matrix splittings and their applications, *Fascicula Mathematics*, 32 (2001), 97-104.
- [68] D.S. Djordjević, P.S. Stanimirović, On the generalized Drazin inverse and generalized resolvent, *Czechoslovak Mathematical Journal* 51(126) (2001), 617-634. (M23)
- [67] P.S. Stanimirović, N.V. Stojković, Stabilization of Mehrotra's primal-dual algorithm and its implementation, *SYMOPIS*, Beograd (2001, October, 2-5), 343-346.
- [66] N.V. Stojković, P.S. Stanimirović, Initial point in primal-dual interior point method, *Facta Universitatis, Series: Mechanics, Automatic, Control and Robotics* 3 (2001), 219-222. (M51)
- [65] P.S. Stanimirović, Generalizations of the condition number, *Mathematica Balkanica* 15 (2001), 35-48. (M24)
- [64] D.S. Djordjević, P.S. Stanimirović, Splittings of operators and generalized inverses, *Publicationes Mathematicae, Debrecen* 59 (2001), 147-159. (M23)
- [63] N.V. Stojković, P.S. Stanimirović, Two direct methods in linear programming, *European Journal of Operations Research* 131 (2001), 417-439. (M22)
- [62] P.V. Krtolica, P.S. Stanimirović, Symbolic derivation without using the expression trees, *YUJOR* 11 (2001), 61-77. (M51)
- [61] P.S. Stanimirović, D.S. Djordjević, A new type of matrix splitting and its applications, *Acta Mathematica Hungarica* 92(1) (2001), 121-135. (M23)

- [60] N. Karampetakis, P.S. Stanimirović, On the computation of the Drazin inverse of a polynomial matrix, 1st IFAC Symposium on System Structure and Control, Prague, Czech Republic, 2001.
- [59] P.S. Stanimirović, N.P. Karampetakis, Symbolic implementation of Leverrier-Faddeev algorithm and applications, 8th IEEE Medit. Conference on Control and Automation, Patra, Greece, 2000.
- [58] P.S. Stanimirović, G-inverses and canonical forms, *Facta Universitatis, Niš, Ser. Math. Inform.* 15 (2000), 1-14. (M51)
- [57] P.V. Krtolica, P.S. Stanimirović, Deducing about the necessity of the parenthesis, *Filomat, Niš* 14 (2000), 87-93. (M24)
- [56] N.V. Stojković, P.S. Stanimirović, Inverse and characteristic polynomial of extended triangular matrix, *Publ. Elect. Fac. Beogr.* 11 (2000), 71-78. (M23)
- [55] P.S. Stanimirović, N.P. Karampetakis, On the computation of Drazin inverse of a rational matrix and applications, Technical Report, Department of Mathematics, Aristotle University of Thessaloniki, Thessaloniki 54006, Greece (2000).
- [54] P.S. Stanimirović, A representation of minimal P-norm solution, *Novi Sad Journal of Mathematics* 30 (2000), 177-183. (M51)
- [53] N.V. Stojković, P.S. Stanimirović, About the starting point in primal-dual interior point method, *SYMOPIS, Beograd* (2000, October, 10-13), 261-264.
- [52] P.S. Stanimirović, About the pairalgebra and unary pairfunctions, *Analele Universitatii din Oradea, Fascicola Mathematica VII* (1999-2000), 36-56.
- [51] D.S. Djordjević, P.S. Stanimirović, Applications of the Groetsch theorem, *Indian Journal of Pure and Applied Mathematics* 31 (2000), 277-286. (M23)
- [50] P.S. Stanimirović, D.S. Djordjević, Full-rank and determinantal representation of the Drazin inverse, *Linear Algebra and its Applications* 311 (2000), 31-51. (M22)
- [49] P.V. Krtolica, P.S. Stanimirović, On some properties of reverse Polish notation, *Filomat* 13 (1999), 157-172. (M24)
- [48] D.S. Djordjević, P.S. Stanimirović, General representations of pseudoinverses, *Matematički Vesnik* 51 (1999), 69-76. (M24)
- [47] P.S. Stanimirović, S. Rančić, Implementation of penalty function methods in LISP, *Acta Mathematica et Informatica Universitatis Ostraviensis* 7 (1999), 119-141. (M51)
- [46] N.V. Stojković, P.S. Stanimirović, On the elimination of excessive constraints in linear programming, *SYMOPIS, Beograd* (November 4-6, 1999), 207-210.
- [45] P.S. Stanimirović, M.B. Tasić, M. Ristić, Symbolic implementation of the Hooke-Jeeves method, *YUJOR* 9 (1999), 285-301. (M51)
- [44] P.S. Stanimirović, Two representations of reflexive g-inverses and their implementation, *Publ. Elect. Fac. Beogr.* 10 (1999), 9-20. (M23)
- [43] P.S. Stanimirović, Determinantal representation of $\{i,j,k\}$ inverses and solution of linear systems, *Mathematica Slovaca* 49 (1999), 273-286. (M24)
- [42] P.S. Stanimirović, General determinantal representation of generalized inverses of matrices over integral domains, *Publicationes Mathematicae, Debrecen* 54 (1999), 221-249. (M23)
- [41] P.S. Stanimirović, Limit representations of generalized inverses and related methods, *Applied Mathematics and Computation* 103 (1999), 51-68. (M23)
- [40] P.S. Stanimirović, Computing minimum and basic solutions of linear systems using the Hyper-power method, *Studia Scientiarum Mathematicarum Hungarica* 35 (1999), 175-184. (M23)
- [39] P.S. Stanimirović, S. Rančić, Second order optimization methods in LISP, *YUJOR* 9 (1999), 113-127. (M51)
- [38] N.V. Stojković, P.S. Stanimirović, A method for solving some classes of linear programming, *Proceedings of XIII Conference on Applied Mathematics, Igalo* (1998), 153-160.
- [37] P.S. Stanimirović, I. Stanković, Symbolic implementation simplex method, *Proceedings of XIII Conference on Applied Mathematics, Igalo* (1998), 141-152.
- [36] P.S. Stanimirović, On generalized inverses of partitioned matrices, *Proceeding of XIII Conference on Applied Mathematics, Igalo* (1998), 131-139.
- [35] P.S. Stanimirović, Interpreter-based approach to generalized matrix inversion, *Scientific Annals of the "A.J. Cuza University" of Jasi, Computer Science Section, VII* (1998), 19-32.
- [34] P.S. Stanimirović, Block representations of $\{2\}$, $\{1,2\}$ inverses and the Drazin inverse, *Indian Journal of Pure and Applied Mathematics* 29 (1998), 1159-1176. (M23)
- [33] P.S. Stanimirović, S. Rančić, Symbolic implementation of lexicographic multicriteria program, *Filomat* 12 (1998), 1-8. (M24)
- [32] P.S. Stanimirović, S. Rančić, First order gradient optimization methods in LISP, *Korean J. Comput. & Appl. Math.* 5 (1998), 611-626. (M51)

- [31] P.S. Stanimirović, D.S. Djordjević, Universal iterative methods for computing generalized inverses, *Acta Mathematica Hungarica* 79(3) (1998), 253-268. (M22)
- [30] P.S. Stanimirović, M. Stanković, Determinants of rectangular matrices and Moore-Penrose inverse, *Novi Sad. J. Math.* 27 No. 1 (1997), 53-69. (M51)
- [29] M. Stanković, J. Madić, P.S. Stanimirović, Addition, subtraction and multiplication of sequences of fractions by means of residue arithmetic and mathematical spectra, *Mathematica Balkanica* 11 (1997), 11-23. (M51)
- [28] J. Madić, P.S. Stanimirović, Solving systems of linear equations by means of mathematical spectra, *Mathematica Moravica* 1 (1997), 51-58. (M51)
- [27] Lj. Kočinac, P.S. Stanimirović, S. Djordjević, $\{1\}$ -inverses of square matrices and rational canonical form, *Mathematica Moravica* 1 (1997), 41-49. (M51)
- [26] P.S. Stanimirović, M. Ristić, Representations of $\{3\}$, $\{4\}$, $\{1,3\}$ and $\{1,4\}$ inverses, *Mathematica Moravica* 1 (1997), 85-92. (M51)
- [25] G.V. Milovanović, P.S. Stanimirović, On Moore-Penrose inverse of block matrices and full-rank factorization, *Publ. Inst. Math. Belgrade* 62(76) (1997), 26-40. (M24)
- [24] P.S. Stanimirović, S. Rančić, M.B. Tasić, Repetitive applications of functions as arguments in programming languages, *Proceedings of VIII Conference on Logic and Computer Science, LIRA '97, Novi Sad (1.9.-4.9.1997)*, 231-238.
- [23] G.V. Milovanović, P.S. Stanimirović, Rank factorization and Moore-Penrose inverse, *Proceedings of the XI Conference on Applied Mathematics, Budva (3.06.-6.06.1996)*, 235-250.
- [22] P.S. Stanimirović, S. Rančić, Unconstrained optimization in LISP, *Proceedings of the XI Conference on Applied Mathematics, Budva (3.06.-6.06.1996)*, 355-362.
- [21] P.S. Stanimirović, S. Rančić, Unidimensional search optimization in LISP, *Proceedings of the II Mathematical Conference in Priština (1996)*, 253-262.
- [20] P.S. Stanimirović, Implementation of block representation of the Moore-Penrose inverse, *Proceedings of the II Mathematical Conference in Priština (1996)*, 205-214.
- [19] G.V. Milovanović, P.S. Stanimirović, Block representation of the group inverse, *Proceedings of the II Mathematical Conference in Priština (1996)*, 79-88.
- [18] P.S. Stanimirović, Exact computation of determinants and inverses of rectangular or singular matrices using residue arithmetic, *Publ. Inst. Math. Belgrade* 60(74) (1996), 15-26. (M24)
- [17] P.S. Stanimirović, General determinantal representation of pseudoinverses of matrices, *Matematički Vesnik* 48 (1996), 1-9. (M24)
- [16] P.S. Stanimirović, Moore-Penrose and group inverse of square matrices and Jordan canonical form, *Rendiconti del Circolo Matematico di Palermo* 45 No 2 (1996), 233-255. (M24)
- [15] Lj. Kočinac, P.S. Stanimirović, S. Djordjević, Representation of $\{1\}$ -inverses and the group inverse by means of rational canonical form, *Scientific Review* 21-22 (1996), 47-55. (M51)
- [14] P.S. Stanimirović, Spectral inverses and Jordan canonical form, *Bull. Soc. Math. Banja Luka* 2 (1995), 15-26. (M51)
- [13] P.S. Stanimirović, K-commutative weak inverses and Jordan Canonical form, *Facta Universitatis* 10 (1995), 13-23. (M51)
- [12] J. Madić, P.S. Stanimirović, Computing determinants by means of mathematical spectra, *Proceedings of YU INFO, Brezovica (4.4.-7.4.1995)*, 446-450.
- [11] P.S. Stanimirović, General determinantal representation of pseudoinverses and its computation, *Rev. Academia de Ciencias Zaragoza* 50 (1995), 41-49. (M51)
- [10] P.S. Stanimirović, M. Stanković, Determinantal representation of generalized inverses over integral domains, *Filomat* 9:3 (1995), 931-940. (M51)
- [9] P.S. Stanimirović, Computing pseudoinverses using minors of an arbitrary matrix, *Filomat* 9:2 (1995), 285-294. (M24)
- [8] M. Stanković, M. Djurić, P.S. Stanimirović, The group inverse and commutative weak inverses for rectangular matrices, *Proceedings of the I Mathematical Conference in Priština (28.9- 1.10.1994)*, 173-180.
- [7] J. Madić, P.S. Stanimirović, Mathematical spectra and finite-segment p-adic number systems, *Proceedings of the I Mathematical Conference in Priština (28.9- 1.10.1994)*, 145-153.
- [6] P.S. Stanimirović, M. Stanković, Generalized algebraic complement and Moore- Penrose inverse, *Filomat* 8 (1994), 57-64. (M24)
- [5] P.S. Stanimirović, M. Stanković, Determinantal representation of weighted Moore-Penrose inverse, *Matematički Vesnik* 46 (1994), 41-50. (M24)
- [4] P.S. Stanimirović, M. Stanković, Computing pseudoinverses of rectangular matrices in terms of square submatrices, *VIII Conference on Applied Mathematics, Tivat (1993)*, 207-216.
- [3] M. Stanković, J. Madić, P.S. Stanimirović, Interpreter for application of mathematical spectra, *Zbornik Radova Filozofskog fakulteta (Niš), Serija Matematika* 6 (1992), 291-298. (M51)
-

- [2] P.S. Stanimirović, Lexical analysis of LISP-expressions in Turbo Pascal, Zbornik Radova Filozofskog fakulteta (Niš), Serija Matematika 4 (1990), 71-79. (M51)
- [1] P.S. Stanimirović, Evaluation of LISP-expressions in Turbo Pascal, Zbornik Radova Filozofskog fakulteta (Niš), Serija Matematika 4 (1990), 15-25. (M51)

Arxiv and Research Square publications

- [4] M. Ćirić, J. Ignjatović, P.S. Stanimirović, Bisimulations for weighted finite automata over semirings, Research Square, DOI: <https://doi.org/10.21203/rs.3.rs-2386298/v1>.
- [3] A.T.Khan, S. Li, P.S. Stanimirović, and Yinyan Zhang. Model-free optimization using eagle perching optimizer. CoRR, abs/1807.02754, 2018. URL <http://arxiv.org/abs/1807.02754>.
- [2] M.B. Tasić, P.S. Stanimirović, S. Pepić, Computation of generalized inverses using Php/MySQL environment, arXiv:1111.5548, 2011.
- [1] P.S. Stanimirović, M. Ćirić, Single-facility Weber Location Problem based on the Lift Metric, arXiv:1105.0757, 2011.

Conference proceedings

- [20] P.S. Stanimirović, A. Stupin, Preface III International Workshop “ Dynamic programming in package Mathematica” (HMMOCS-III 2024), ITM Web of Conference (2025).
- [19] P.S. Stanimirović, A. Stupina, I. Kovalev, S.D. Mourtas, J.K. Sahoo, Preface III International Workshop “Hybrid methods of modeling and optimization in complex systems” (HMMOCS-III 2024), ITM Web of Conference (2025).
- [18] P.S. Stanimirović, A. Stupina, I. Kovalev, Overview of the II International Workshop “Hybrid methods of modeling and optimization in complex systems” (HMMOCS-II 2023), ITM Web of Conferences 59, 00001 (2024), <https://doi.org/10.1051/itmconf/20245900001>.
- [17] P.S. Stanimirović, Zeroing neural networks for solving time-varying problems in linear algebra, The 51st Annual Iranian Mathematics Conference (AIMC51), February 16-20 February 2021, Faculty of Mathematical Sciences of the University of Kashan, Iran, 25-26.
- [16] P.S. Stanimirović, Zeroing neural networks in linear algebra, Mat TRIAD 2019, Liblice, Czech Republic, 08.09. - 13.09.2019, 143–144.
- [15] M.D. Petković, P.S. Stanimirović, Gradient neural network models or solving matrix equation $AXB=D$ in real time, Mat TRIAD 2019, Liblice, Czech Republic, 08.09. -13.09.2019, 130–131.
- [14] P.S. Stanimirović, M.D. Petković, Accelerated gradient descent methods for nonlinear optimization, Symopis 2017, Zlatibor, Serbia, 25.09. -28.09.2017, 308–313.
- [13] M.D. Petković, P.S. Stanimirović, Least squares solutions of matrix equations and their applications, Symopis 2017, Zlatibor, Serbia, 25.09. -28.09.2017, 302–307.
- [12] P.S. Stanimirović, N. Stojković, Concluding comments on the minimal angles method, Symopis 2016 (Tara, 20.09. -23.09.2016), 357–360.
- [11] P.S. Stanimirović, Solving indefinite least-squares problem using generalized inverses and Recurrent Neural Network, XIX Geometrical Seminar, Zlatibor (28.08. -04.09.2016), 72–72.
- [10] P.S. Stanimirović. and N. Stojković, Initialization of the Simplex Algorithm, XI International May conference on strategic management IMKSM 2015, Book of Proceedings (2015), p14–p17.
- [9] L.A. Kazakovtsev, P.S. Stanimirović, An Approach to the Multi-facility Weber Problem with Special Metrics, 2013 European Modelling Symposium, EMS 2013, 20-22 November 2013, Manchester, United Kingdom, DOI 10.1109/EMS.2013.21, 113–118.
- [8] L.A. Kazakovtsev, P.S. Stanimirović, Antamoskin, A.N, Location problem with some non-Euclidean Metrics, SAIT 2013, Fifth International Conference “System Analysis and Informational Technologies” 19-25 September 2013, Krasnojark, Russia, DOI 10.1109/EMS.2013.21, 42–49 (In Russian).
- [7] I. Stojanović, Z. Zlatev, P.S. Stanimirović, M. Miladinović, Application of the Moore-Penrose Inverse Matrix in Image Deblurring, XI International Conference ETAI 2013 Metropol Lake Resort, Ohrid, Macedonia September 26-28, 2013.
- [6] I.A. Osinuga, L.A. Kazakovtsev, P.S. Stanimirović, Planar Weber Location Problems with French Metro Metric, SAMSA 2012: Southern African Southern Mathematical Association International Conference, 2012 SAMSA Conference Abstracts - Masamu - Auburn University, November 26–29, 2012.
- [5] I. Stojanović, P.S. Stanimirović, M. Miladinović, Using the Moore-Penrose inverse matrix in image restoration, Yearbook 2012, Faculty of Computer Science, Goce Delcev University – Stip.

- [4] Lj. Velimirović, P.S. Stanimirović, M. Zlatanović, Geometry using program package MATHEMATICA, moNGeometrija 2008, Serbia, Vrnjačka Banja, Proceedings (September 25–27), 404–413.
- [3] P.S. Stanimirović, M.D. Petković, M. Zlatanović, Visualization in optimization with MATHEMATICA, moNGeometrija 2008, Serbia, Vrnjačka Banja, Proceedings (September 25–27), 344–355.
- [2] I. Stanimirović, M.D. Petković, P. Stanimirović, Heuristic algorithm for single resource constrained project scheduling problem based on the dynamic programming, Strategic Management 2006, Jagodina (01.06.-03.06. 2006), 83–85.
- [1] N. Stojković, P.S. Stanimirović, On the elimination of excessive constraints in linear programming, SYMOPIS '99 (3.11.-6.11.1999), 207–210.

B – SCIENTIFIC BOOKS AND MONOGRAPHS

Books

- [1] P.S. Stanimirović, N. Marković, Programiranje i programski jezici sa zbirkom zadataka za III razred srednjeg obrazovanja i vaspitanja, Naučna Knjiga, Beograd i Zavod za izdavanje udžbenika, Novi Sad, ISBN 9788623830150, 1990.
- [2] M.B. Tasić, P.S. Stanimirović, Primena računarskih sistema, Univerzitet u Nišu, Tehnološki fakultet u Leskovcu, ISBN 9788682367642, 2006.
- [3] P.S. Stanimirović, I. Jovanović, Mrežno planiranje i MS Project, Prirodno-matematički fakultet u Nišu, Niš, 2008, IX+448 (ISBN 978-86-83481-49-2)
- [4] P.S. Stanimirović, G.V. Milovanović, I. Jovanović, Primene linearnog i celobrojnog programiranja, Prirodno-matematički fakultet u Nišu, Niš, 2008, X+298 (ISBN 978-86-83481-51-4).
- [5] M. Miladinović, P.S. Stanimirović, Nelinearna optimizacija, Prirodno-matematički fakultet u Nišu, Niš, 2008, V+233 (ISBN 978-86-6275-041-9).

Edited books, special issues, book reviews, topic editor

- [1] P.S. Stanimirović, Book review: Linear Algebra and Analytic Geometry, Filomat 13 (1999), 173-175.
- [2] F. Soleymani, P.S. Stanimirović, J.R. Torregosa, H.S. Nik, E. Tohidi (editors), The Scientific World Journal –special issue Recent Theories and Applications in Approximation Theory (RTAN), 2015.
- [3] Lj. Kočinac, P.S. Stanimirović, M. Ćirić, E. Malkowski, D. Djurčić, (editors), Filomat 31:10 (2017), Special issue of ATA 2016, Čačak, 2017.
- [4] S. Li, P.S. Stanimirović, B. Liao, (editors), Robotics, Intelligence in advanced robotics, 2018.
- [5] P.S. Stanimirović, T. Acar, (editors), Special Issue: The First International Workshop: Constructive Mathematical Analysis (IWCMA), 2019.
- [6] P.S. Stanimirović, B. Liao, (editors), Filomat, Dynamic models for scientific computation, 34, 2020.
- [7] S. Li, P.S. Stanimirović, (editors), Filomat, Applied optimization for industrial applications, 34, 2020.
- [8] S.A. Edalatpanah, P.S. Stanimirović, Li-Tao Zhang (editors), Mathematical Problems in Engineering – special issue Advances in Numerical Optimisation : Theory, Models, and Applications: Theory, Models, and Applications (ANOTMA), 2020.
- [9] H. Ahmad, P.S. Stanimirović, Ali Akgül, (editors), AIMS Mathematic, special Issue on Artificial Intelligence and Epidemiology, 2020.
- [10] S.A. Edalatpanah, P.S. Stanimirović, Li-Tao Zhang (editors), Mathematical Problems in Engineering –annual issue Advances in Numerical Optimisation (ANOTMA): Theory, Models, and Applications, 2021.
- [11] P.S. Stanimirović, H. Ahmad, D.D. Ganji, Y. Menni (editors), Axioms – Special issue „Dedicated to Professor Ji-Huan He on the occasion of his 55th birthday“, 2021.
- [12] S.A. Edalatpanah, P.S. Stanimirović, Li-Tao Zhang (editors), Computer Systems Science and Engineering, ISSN: 0267-6192 –special issue Recent Advanced in Numerical Optimization Theory, Models, and Applications, 2022.
- [13] E. Semenkin, T. Ganchev, P.S. Stanimirović, Complexity - Special Issue "Mathematical Models and Their Applications III", www.mdpi.com/journal/algorithms/special_issues/mathematical_models_applications_III.
- [14] L. Jin, P.S. Stanimirović, Y. Li, Special Issue on: Recurrent Dynamic Neural Networks: Theory and Applications, CAAI Transactions on Intelligence Technology, November 2022.
- [15] S. Li, D. Chen, M.-A. Mirza, V.N. Katsikis, D. Xiao, P.S. Stanimirović, Y. Li, Topic editor of topic: Intelligent Systems and Robotics, CAAI Transactions on Intelligence Technology, April 2022-June 2023, MDPI journals: Energies,

- Machines, Robotics, Sensors, Systems, Algorithms, Mathematics, Automation,
https://www.mdpi.com/topics/intell_syst_robot.
- [16] A.H. Khan, X. Cao, B. Liao, V.N. Katsikis, P. S. Stanimirović, I. Brajević, Guest Editors, Special Issue "Beetle Antennae Search (BAS), Algorithm's Variants and Applications" of Biomimetics (ISSN 2313-7673),
https://www.mdpi.com/journal/biomimetics/special_issues/Bioinspired_Algorithms.
- [17] Collected Papers (on Physics, Artificial Intelligence, Health Issues, Decision Making, Economics, Statistics), Volume XI, GLOBAL KNOWLEDGE Publishing House, Miami, United States of America, 2022, Florentin Smarandache editor, <http://fs.unm.edu/CP11.pdf>.
- [18] Collected Papers (on various scientific topics), Volume XIII, GLOBAL KNOWLEDGE Publishing House, Miami, United States of America, 2022, Florentin Smarandache editor, Global Knowledge Publishing House, United States of America, 2022, <http://fs.unm.edu/CP13.pdf>.
- [19] H. Ahmad, P.S. Stanimirović, A. Akgul, Special Issue on Recent Advances in Numerical Techniques for Integer and Non-Integer Order for Partial Differential Equations Arising in Applied Sciences and Engineering, 2022,
https://jamcm.pcz.pl/?id=special_issue_2.
- [20] E. Semenkin, T. Ganchev, P.S. Stanimirović, Complexity - Special Issue "Mathematical Models and Their Applications IV", 2022, https://www.mdpi.com/journal/algorithms/special_issues/8Z7Q3VF58I.
- [21] H. Ahmad, P.S. Stanimirović, Symmetry - Special Issue "Symmetry in Fractional Calculus: Advances and Applications", 2023, https://www.mdpi.com/journal/symmetry/special_issues/W4C4SF306N#.
- [22] Book Title: Hybrid Methods of Modeling and Optimization in Complex Systems, Book Subtitle: Proceedings of International Workshop "Hybrid methods of modeling and optimization in complex systems" (in the framework of The Eleventh International Conference on Mathematical Models and their Applications), November 22-24, 2022, Krasnoyarsk, the Russian Federation, Editors: Predrag Stanimirović, Alena A. Stupina, Eugene Semenkin, Igor V. Kovalev, Book DOI: 10.15405/epct.26728834.23021.1, eBook ISBN: 978-1-80296-960-3.
- [23] M.J. Petrović, P.S. Stanimirović, G.V. Milovanović, Special Issue "Numerical Analysis and Optimization", Axioms,
https://www.mdpi.com/journal/axioms/special_issues/0454E7HGRH.
- [24] L.A. Kazakovtsev, P.S. Stanimirović, Special Issue "Intelligent Computing and Optimization", Mathematics,
https://www.mdpi.com/journal/mathematics/special_issues/FWQKZV8472.
- [25] D. Giri, D. Gollmann, S. Ponnusamy, S. Kouichi, P.S. Stanimirović, J.K. Sahoo, Proceedings of the Ninth International Conference on Mathematics and Computing (ICMC 2023), eBook ISBN 978-981-99-3080-7, August 2023, Springer.
- [26] EAI/Springer Innovations in Communication and Computing, Predrag S. Stanimirović, Yudong Zhang, Dunhui Xiao, Xinwei Cao (Eds): 6th EAI International Conference on Robotic Sensor Networks, Hardcover ISBN 978-3-031-33825-0, the proceedings from 6th EAI International Conference on Robotic Sensor Networks (ROSENET 2022), Springer Cham, 2023.
- [27] L. Jin, P.S. Stanimirović, S. S.-D. Xu, Frontiers in Neurorobotics, Research Topic Dynamic Neural Networks for Robot Systems: Data-Driven and Model-Based Applications, <https://www.frontiersin.org/research-topics/54037>.
- [28] Jin, L., Stanimirovic, P. S., Xu, S. S.-D., eds. (2024). Dynamic neural networks for robot systems: Data-driven and model-based applications. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-5201-8
- [29] P.S. Stanimirović, A. Stupina, I. Kovalev editors, ITM Web of Conferences 59, (2024), II International Workshop "Hybrid Methods of Modeling and Optimization in Complex Systems" (HMMOCS-II 2023) Krasnoyarsk, Russia, November 28-30, 2023, P. Stanimirović, A. Stupina and I. Kovalev (Eds.)
https://doi.org/10.1051/itmconf/20245900001_HMMOCS-II_2023.
- [30] L. Jin, C. Yang, S. Li, P.S. Stanimirović, CFP-Special Issue on Neural networks depicted in ODEs with Applications,
https://www.sciopen.com/journal/message_news/get_by_id?id=1744904807473807362&issn=1007-0214.
- [31] M. Liu, Z. Sun, P.S. Stanimirović, topic editors: Research topic: Neural Dynamics for Brain-inspired Control and Computing: Advances and Applications, Frontiers in Neuroscience, <https://www.frontiersin.org/research-topics/65850/neural-dynamics-for-brain-inspired-control-and-computing-advances-and-applications>.
- [32] X. Cao, A.T. Khan, P.S. Stanimirović, Special issue editors, New Advances in Neural Networks and Applications, A special issue of Mathematics (ISSN 2227-7390),
https://www.mdpi.com/journal/mathematics/special_issues/9HC66CS2I8.
- [33] L. Jin, S. Li, P.S. Stanimirović, Special Issue on Ordinary Differential Equation (ODE) -Based Intelligent Computing with Applications, Computational Intelligence,
<https://onlinelibrary.wiley.com/page/journal/14678640/homepage/call-for-papers/si-2024-001065>.

Monographs

- [1] G.V. Milovanović, P.S. Stanimirović, Simbolička implementacija nelinearne optimizacije, Elektronski fakultet u Nišu, Edicija monografije, Niš, 2002, X+236 (ISBN 86-80135-67-4).

APPENDIX:CONTRIBUTIONS

- [2] P.S. Stanimirović, G.V. Milovanović, Programski paket MATHEMATICA i primene, Elektronski fakultet u Nišu, Edicija monografije, Niš, 2002, XII+242 (ISBN 86-80135-68-2).
- [3] P.S. Stanimirović, N.V. Stojković, M. Petković, Matematičko programiranje, Prirodno–matematički fakultet u Nišu, Niš, 2007, IV+415 (ISBN 978-86-83841-46-0).
- [4] Lj. Velimirović, P.S. Stanimirović, M. Zlatanović, Geometrija krivih i površi uz korišćenje paketa Mathematica, Prirodno–matematički fakultet u Nišu, Niš, 2011, IX+297 (ISBN 978-86-83481-45-3).
- [5] Y. Wei, P.S. Stanimirović, M. Petković, Numerical and symbolic computations of generalized inverses, World Scientific Publishing Co. Pte. Ltd., Hackensack, NJ, 2018, September 2018, DOI 10.1142/10950 (ISBN: 978-981-3238-66-4). (M11)
- [6] P. Stanimirović, D. Mosić, A. Stupina, R. Behera, Solving matrix approximation problems using generalized inverses: monograph, INFRA-M Moscow, 2023. - 165 p. - (Scientific Idea). ISBN 978-5-16-019628-2.
- [7] P. Stanimirović, Y. Wei, L. Jin, A. Stupina, L. Kazakovtsev, Gradient-based Dynamical Systems for Matrix Computations and optimization: monograph, Moscow : INFRA-M, 2024. — 314 p., ISBN 978-5-16-020482-6.

C- THESES

- [1] P.S. Stanimirović, LISP interpreter in Turbo Pascal, Magister's thesis, Univerzitet u Nišu, Filozofski fakultet, 1990.
- [2] P.S. Stanimirović, Programming packages for computing generalized inverses, PhD thesis, Univerzitet u Nišu, Filozofski fakultet, 1996.

D – SOFTWARE

- [1] LISP interpreter in Turbo Pascal, Defended 19.6.1990. in Mathematical Institute, Belgrade.
-

APPENDIX 2: CONFERENCE TALKS

- [105] V.N. Krutikov, E. Tovbis, P.S. Stanimirović, L.A. Kazakovtsev, NEWTONIAN PROPERTY OF SUBGRADIENT METHOD WITH OPTIMIZATION OF PARAMETERS OF RANK TWO CORRECTION OF METRIC MATRICES, Theory and Operations Research, MOTOR-2024, Omsk Russia, June 30 - July 06, 2024.
 - [104] P.S. Stanimirović, L.A. Kazakovtsev, V.N. Krutikov, Modified error functions in Continuous-time Recurrent Neural Networks, Mathematical Optimization, Theory and Operations Research, MOTOR-2024, Omsk Russia, June 30 - July 06, 2024.
 - [103] P.S. Stanimirović, M. Ćirić, Simulations and bisimulations for weighted finite automata based on continuous recurrent neural networks, Analysis, Topology and Applications (ATA 2024), 29.06.2024.-03.07.2024. Vrnjačka Banja, Serbia, <http://www.ftn.kg.ac.rs/konferencije/ATA2024/>.
 - [102] P.S. Stanimirović, M. Ćirić, D. Gerontitis, Dynamical simulations and bisimulations between weighted finite automata over the field of real numbers, The XV Serbian Mathematical Congress, Belgrade, June 19 to 22, 2024, https://smak15.matf.bg.ac.rs/download/Program15SMAC_ENG.pdf.
 - [101] M. Ćirić, J. Ignjatović, P.S. Stanimirović, N. Damljanović, Bisimulations for weighted finite automata over the field of real numbers, The XV Serbian Mathematical Congress, Belgrade, June 19 to 22, 2024, https://smak15.matf.bg.ac.rs/download/Program15SMAC_ENG.pdf.
 - [100] M. Ćirić, J. Ignjatović, P.S. Stanimirović, Idempotent-aided factorizations of matrices over a field, The XV Serbian Mathematical Congress, Belgrade, June 19 to 22, 2024, https://smak15.matf.bg.ac.rs/download/Program15SMAC_ENG.pdf.
 - [99] I. Osinuga, P.S. Stanimirović, Another Hybrid BFGS-conjugate Gradient Algorithm for Unconstrained Optimization, AIP Conference Proceedings 2852, 130006 (2023), <https://doi.org/10.1063/5.0165160>.
 - [98] M. Ćirić, J. Ignjatović, P. S. Stanimirović, Idempotent-aided factorizations of matrices over a field, International Mathematical Conference Analysis, Approximations and Applications (AAA2023), dedicated to Academician Gradimir V. Milovanović on the occasion on his 75th anniversary, 21-24 June, Vrnjačka Banja, Serbia, 2023.
 - [97] P. S. Stanimirović, Compound step-size methods in unconstrained nonlinear optimization, International Mathematical Conference Analysis, Approximations and Applications (AAA2023) , dedicated to Academician Gradimir V. Milovanović on the occasion on his 75th anniversary, 21-24 June, Vrnjačka Banja, Serbia, 2023.
-

- [96] P. S. Stanimirović, Hybrid algorithms for solving matrix equations, XXVI International Scientific and Practical Conference dedicated to the memory of the General Designer of rocket and space systems Academician Mikhail Fedorovich Reshetnev, "RESHETNEV READINGS", November of 09-11, 2022, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russian Federation.
- [95] P. S. Stanimirović, Conditions for existence, representations, and computation of generalized inverses, Analysis, Topology and Applications 2022 (ATA2022), University of Kragujevac, Faculty of Technical Sciences, Čačak, June 29- July 02, 2022, Vrnjačka Banja, Serbia.
- [94] V. N. Krutikov, P. S. Stanimirović, O. N. Indenko, E. M. Tovbis, L. A. Kazakovtsev, Optimization of Parameters for Rank-two Correction of the Subgradient Method Metric Matrices, Mathematical Optimization Theory and Operations Research" (MOTOR 2022), July 2-6, 2022, Petrozavodsk, Russian Federation.
- [93] P.S. Stanimirović, Control of nonlinear dynamical systems by zeroing neural networks, "Artificial Intelligence and New Technology Applied in Agriculture and Fisheries" Graduate Forum, Organizer: Guangdong Ocean University, Time: December 26-28, 2021, Location: Zhanjiang Fontainebleau Hotel, Online talk.
- [92] S. Li, P.S. Stanimirović, B. Peng, L. Jin, Design, Analysis, and Application of Projected k-Winner-Take-All Network, ACAIT 2021 (The 5th Asian Conference on Artificial Intelligence Technology), October 29-31, 2021, Haikou, China.
- [91] P.S. Stanimirović, Solving time-varying problems in numerical linear algebra by means of zeroing neural networks, Lanzhou University, July 08 2021, Online talk.
- [90] P.S. Stanimirović, Zeroing neural networks for solving time-varying problems in linear algebra, The 51st Annual Iranian Mathematics Conference (AIMC51), February 16-20 February 2021, Faculty of Mathematical Sciences of the University of Kashan, Iran, Keynote speaker, Online conference.
- [89] P.S. Stanimirović, Gradient Dynamical Systems for Solving Matrix Equations and Computing Generalized Inverses, 2020 4th International Conference on Modeling, Simulation and Applied Mathematics (MSAM2020), Wuhan, China (January 11-13, 2020).
- [88] M.D. Petković, P.S. Stanimirović, Gradient neural network models for solving matrix equation $AXB = D$ in real time, International Conference on Matrix Analysis and its Applications, MAT TRIAD 2019, Liblice, Czech Republic, September 8th to 13th 2019.
- [87] P.S. Stanimirović, Zeroing neural networks in linear algebra, International Conference on Matrix Analysis and its Applications, MAT TRIAD 2019, Liblice, Czech Republic, September 8th to 13th 2019.
- [86] M.D. Petković, P.S. Stanimirović, Zeroing Neural Network Based on the Equation $AXA = A$, CAI 2019, 8th International Conference on Algebraic Informatics, June 30 – July 4, 2019, Niš, Serbia.
- [85] P.S. Stanimirović, Y. Wei, D. Kolundžija, J.R. Sendra, J. Sendra, An application of computer algebra and dynamical systems, 8th International Conference on Algebraic Informatics, June 30 – July 4, 2019, Niš, Serbia .
- [84] P.S. Stanimirović, Outer and (b,c) inverses of tensors, Workshop on tensor analysis and its applications, Fudan University, Shanghai, China, March 30-31, 2019.
- [83] P.S. Stanimirović, J.R. Sendra, J. Sendra, Symbolic computations in matrix algebra, CACNA 2018, University of Kashan, Kashan, Iran, December 12-14, 2018.
- [82] P.S. Stanimirović, Some results about nonlinear optimization and symbolic computation, Scientific conference dedicated to the 70th birthday of academician Gradimir V. Milovanović, Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, November 13. 2018.
- [81] V.N. Katsikis, P.S. Stanimirović, Improving of ZNN models for computing the matrix inverse by using hyperpower iterative methods, The 1st International Conference on Advanced Robotics and Intelligent Control (ICARIC 2018), Jishou University, Jishou City, China (11.10. -14.10.2018), Hunan Province, China.
- [80] P.S. Stanimirović, Integration Enhanced ZNN for Computing Time-Varying Complex Outer Inverses, The 1st International Conference on Advanced Robotics and Intelligent Control (ICARIC 2018), Jishou University, Jishou City, China (11.10. -14.10.2018), Hunan Province, China.
- [79] P.S. Stanimirović, RNN for solving linear matrix equations, XIV Serbian Mathematical Congress (14SMAK 2018), Kragujevac, May 16 – May 19, 2018 (2018), 220-223.
- [78] M.D. Petković, P.S. Stanimirović, V.N. Katsikis, Discrete iterations for computing generalized inverses of time-varying matrix, XIV Serbian Mathematical Congress (14SMAK 2018), Kragujevac, May 16 – May 19, 2018 (2018), 178-179.
- [77] P.S. Stanimirović, Algebraic Approach to Generalized Tensor Inversion, SIAM-ALA 2018, Hong Kong, 2018.
- [76] P.S. Stanimirović, M.D. Petković, Y. Wei, GNN and ZNN solutions of linear matrix equation, SIAM-ALA 2018, Hong Kong, 2018.
- [75] M.D. Petković, P.S. Stanimirović, V.N. Katsikis, Computing the Inverse and Pseudoinverse of Time-Varying Matrices by the Discretization of Continuous-Time ZNN Models, SIAM-ALA 2018, Hong Kong, 2018.
- [74] M. Ćirić, P.S. Stanimirović, J. Ignjatović, A semigroup-theoretical approach to the study of generalized inverses, 94. Arbeitstagung Allgemeine Algebra+5th Novi Sad Algebraic Conference June 17th ,2017, Novi Sad, Serbia.

- [73] M.D. Petković, P.S. Stanimirović, M. Ćirić, RNN solution of linear matrix equation and its applications, ACTA 2017: Approximation and Computation, Theory and Applications, Belgrade, November 30 - December 2, 2017 (2017).
- [72] P.S. Stanimirović, M.D. M. Petković, M. Ćirić, GNN Models for Solving Matrix Equations, The Fifth Conference on Information Theory and Complex Systems - TINKOS 2017, November 9-10, 2017, Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia (2017), 12–13.
- [71] P.S. Stanimirović, I.S. Živković, D. Gerontitis, Higher-order ZNN models for computing the matrix inverse, The Fourth Conference on Information Theory and Complex Systems - TINKOS 2016, October 27-28, 2016, Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia (2016), 31–32.
- [70] M.D. Petković, P.S. Stanimirović, Least squares solutions of matrix equations and their applications, SYMOPIS, Zlatibor, 2017.
- [69] P. S. Stanimirović, M.D. Petković, Accelerated gradient descent methods for nonlinear optimization, SYMOPIS, Zlatibor, 2017.
- [68] P.S. Stanimirović, N.V. Stojković, Concluding comments on the minimal angles method, Symopis 2016 (20.09. - 23.09.2016), 357–360.
- [67] P.S. Stanimirović, Solving indefinite least-squares problem using generalized inverses and Recurrent Neural Network, XIX Geometrical Seminar, Zlatibor (28.08. -04.09.2016), 72–72.
- [66] P.S. Stanimirović, Recurrent Neural Network Approach to Computation of Generalized Inverses, 2016, ILAS 2016, 11-15 July 2016, Leuven, Belgium, 207–208.
- [65] M. Miladinović, P. Stanimirović, Gradient methods for computing the least-square solutions, 13th Serbian Mathematical Congress, Vrnjačka Banja, Serbia, May 2014.
- [64] M. Miladinović, P. Stanimirović, S. Miljković, Scalar Correction Method for Solving Large Scale Unconstrained Minimization Problems, XI Balkan Conference on Operational Research – BALCOR 2013, Belgrade & Zlatibor, Serbia, September, 2013.
- [63] L.A. Kazakovtsev, P.S. Stanimirović, An Approach to the Multi-facility Weber Problem with Special Metrics, 2013 European Modelling Symposium, EMS 2013, 20-22 November 2013, Manchester, United Kingdom, DOI 10.1109/EMS.2013.21, 113–118.
- [62] L.A. Kazakovtsev, P.S. Stanimirović, A.N. Antamoskin, Location problem with some non-Euclidean Metrics, SAIT 2013, Fifth International Conference "System Analysis and Informational Technologies" 19-25 September 2013, Krasnojark, Russia, DOI 10.1109/EMS.2013.21, 42–49 (In Russian).
- [61] I. Stojanović, Z. Zlatev, P.S. Stanimirović, M. Miladinović, Application of the Moore-Penrose Inverse Matrix in Image Deblurring, XI International Conference ETAI 2013 Metropol Lake Resort, Ohrid, Macedonia September 26-28, 2013, September 26–28, 2013.
- [60] Kazakovtsev L.A., Stanimirović P.S. Osinuga I.A. Decomposition of the continuous Weber problem with French Metro Metric. Problems of Modern Agrarian Science (15 октября 2012 г., г.Красноярск, Россия).
- [59] I.A. Osinuga, L.A. Kazakovtsev, P.S. Stanimirović, Planar Weber Location Problems with French Metro Metric, SAMSA 2012: Southern African Southern Mathematical Association International Conference, 2012 SAMSA Conference Abstracts - Masamu - Auburn University, November 26–29, 2012.
- [58] P.S. Stanimirović, I. Stojanović, S. Chountasis, D. Pappas, Application of least squares solutions in image deblurring, M3ST 2012, Kalamata, Greece, August 26, 2012 – August 28, 2012.
- [57] I. Stojanović, P. Stanimirović, M. Miladinović, S. Bogdanova, Applying the Pseudoinverse Matrix in the Removal of Blur in Images, 19th International Conference on Systems, Signals and Image Processing (IWSSIP), Wiena, Austria, 11–13. April 2012.
- [56] M. Miladinović, P. Stanimirović, S. Miljković, Modified SMS method for computing outer inverses of Toeplitz matrices, 17th Conference of the International Linear Algebra Society - ILAS, Braunschweig, Germany, August, 2011.
- [55] M. Petković, P.S. Stanimirović, Iterative method for computing Moore-Penrose inverse based on Penrose equations, 17th Conference of the International Linear Algebra Society - ILAS, Braunschweig, Germany, August, 2011.
- [54] P. Stanimirović, M. Petković, M. Tasić, Computation of generalized inverses, Theoretical computer science - from foundation to applications, Niš, Serbia, 2009
- [53] N. Stojković, M. Petković, P.S. Stanimirović, Finding initial basic feasible solution in simplex algorithm, PRIM, Subotica, Serbia, 2009.
- [52] P. Stanimirović, M. Petković, M. Zlatanović, Visualization in optimization with MATHEMATICA, International conference MoNGeometrija, Vrnjačka Banja, Serbia, 2008.
- [51] M. Petković, P. Stanimirović, Computing generalized inverses of constant and rational matrices, Applied Linear Algebra, in honor of Ivo Marek, Novi Sad, Serbia, 2008.
- [50] P.S. Stanimirović, M. Miladinović, I.M. Jovanović, Computer algebra and line search, International Conference Approximation & computation (APP&COM 2008), Niš, Serbia, Edited by Gradimir V. Milovanović (August 25–29, 2008),

- [49] Lj. Velimirović, P.S. Stanimirović, M. Zlatanović, Geometry using program package MATHEMATICA, moNGeometrija 2008, Serbia, Vrnjačka Banja, Proceedings (September 25–27), 404–413.
- [48] P.S. Stanimirović, M.D. Petković, M. Zlatanović, Visualization in optimization with MATHEMATICA, moNGeometrija 2008, Serbia, Vrnjačka Banja, Proceedings (September 25–27), 344–355.
- [47] S. Vukašinović, P.S. Stanimirović and Cirić, M, Turing Machine in Mathematica, 2006 Wolfram Technology Conference, Champaign IL (2006), <http://library.wolfram.com/infocenter/Conferences/6508>.
- [46] S. Vukašinović, P.S. Stanimirović, Automatic generation regular languages from regular grammars, International Mathematica Symposium 06 du 19/06/2006 au 23/06/2006 au Centre de Congres du Palais des Papes a Avignon, (19.06-23.06.2006), <http://internationalmathematicsymposium.org/-IMS2006/IMS2006CD/html/articles.html>.
- [45] I. Stanimirović, M.D. Petković, P.S. Stanimirović, Heuristic algorithm for single resource constrained project scheduling problem based on the dynamic programming, Strategic Management 2006, Jagodina (01.06.-03.06. 2006), 83–85.
- [44] P.S. Stanimirović, I. Stanković, The past and future of programming languages, Tempus Project CD JEP-16160-2001, Workshop on Education in Computer Science, Nis (October 13th, 2004).
- [43] P.S. Stanimirović, N. Stojković, M.D. Petković, Run-time transformations in implementation of linear multi-objective optimization, PRIM, Budva, Serbia and Montenegro, 2004.
- [42] P.S. Stanimirović, N. Stojković, V. Kovačević-Vučić, Some implementation details of modified Mehrotra's primal-dual algorithm, XVI Conference on Applied Mathematics, Budva (31.05.-04.06. 2004).
- [41] P.S. Stanimirović, N. Stojković, M. Petković, Linear multi-objective optimization in MATHEMATICA, XVI Conference on Applied Mathematics, Budva (31.05.-04.06. 2004).
- [40] P.S. Stanimirović, P.V. Krtolica, N. Karampetakis, Using the interpolation in computing generalized inverses of a polynomial matrix, 4th Conference on Informatics and Information Technology, Bitola, Dec. 11-14, 2003, 50–50.
- [39] M. Tasić, P.S. Stanimirović, Implementation of partitioning method, International Symposium on Nonlinear Mechanics, Faculty of Mechanical Engineering, Niš 24-29 August 2003, 168–168.
- [38] P.S. Stanimirović, An overview of Tempus project for designing and improving of some subjects in CS curriculum at Faculty of Science, Niš, Software Engineering Education and Reverse Engineering, Plovdiv, Bulgaria, September 15 - 21, 2002, September 15-21, 2002.
- [37] N. Stojković, P.S. Stanimirović, Transformations of dual problem and decreasing dimensions in linear programming, 5th International Symposium on Mathematical Analysis and Its Applications (MAA5), Niska Banja, October 2-6, 2002.
- [36] M.D. Petković, P.S. Stanimirović, N. Stojković, A modification of revised simplex method, 5th International Symposium on Mathematical Analysis and Its Applications (MAA5), Niska Banja, October 2-6, 2002.
- [35] N. Karampetakis and P. Stanimirović, On the computation of the Drazin inverse of a polynomial matrix, 1st IFAC Symposium on System Structure and Control, August 29-31, 2001, Prague, Czech Republic. (System Structure & Control 2 volume set) Prague, Czech Republic, 27-31 August 2001, Edited by P. Horacek.
- [34] P.S. Stanimirović, N. V. Stojković, M. Petković, Modifications of two-phases simplex method, Filomat 2001, Niš (2001), 39–39.
- [33] P.S. Stanimirović, N. Stojković, V. Momčilović, B. and Jovanović, Z, Augmented and normal equations system in Mehrotra's primal-dual algorithm, Filomat 2001, Niš (2001), 39–39.
- [32] P.S. Stanimirović and Tasić, M.B, Drazin inverse of polynomial matrices, Filomat 2001, Niš (2001), 13–13.
- [31] P.V. Krtolica, P.S. Stanimirović, R. Stanojević, Reverse Polish notation method in constructing the algorithms for polygon triangulation, Filomat 2001, Niš (2001), 9–9.
- [30] N. Stojković, P.S. Stanimirović, About the starting point in primal-dual interior point method, The fifth YUSNM Niš (2000), 50–50.
- [29] M. Ćirić, S. Bogdanović, P.S. Stanimirović, Regularity equations and conditions on semigroups, Colloquium on Semigroups, July 17-21, Szeged, Hungary (2000), 6–6.
- [28] P.S. Stanimirović, P.V. Krtolica, Two algebraic applications of the reverse polish notation method, Colloquium on Semigroups, July 17-21, Szeged, Hungary (2000), 14–14.
- [27] P.S. Stanimirović, N.P. Karampetakis, Symbolic implementation of Leverrier-Faddeev algorithm and applications, 8th IEEE Medit. Conference on Control and Automation, Patra, Greece (2000).
- [26] Stojković, N. and Stanimirović, P.S., On the elimination of excessive constraints in linear programming, SYMOPIS '99 (3.11.-6.11.1999), 207–210.
- [25] P.S. Stanimirović, Bogdanović, S. M. Ćirić, M, Adjoint mappings and inverses of matrices, VIII Conference on Algebra and Logic, Novi Sad (21.09.-23.09. 1998).
- [24] P.S. Stanimirović, I. Stanković, Symbolic implementation simplex method, XIII Conference on Applied Mathematics, Igalo (25.05.-29.05. 1998), 64–64.
- [23] P.S. Stanimirović, On generalized inverses of partitioned matrices, XIII Conference on Applied Mathematics, Igalo (25.05.-29.05. 1998), 19–19.

- [22] D. S. Djordjević, P.S. Stanimirović, Representations of the generalized inverses, IV Symposium on Mathematical Analysis and its Applications (25.05.-30.05. 1997), 16–16.
- [21] G.V. Milovanović, P.S. Stanimirović, Block representation of the group inverse, II Mathematical Conference in Priština (25.09.-28.09. 1996), 17–17.
- [20] P.S. Stanimirović, S. Rančić, Unidimensional search optimization in LISP, II Mathematical Conference in Priština (25.09.-28.09. 1996), 58–58.
- [19] P.S. Stanimirović, Implementation of block representation of the Moore-Penrose inverse, Mathematical Conference in Priština (25.09.-28.09. 1996), 53–54.
- [18] Lj. Kočinac, P.S. Stanimirović, S. Djordjević, Representation of $\{1\}$ -inverses and the group inverse by means of rational canonical form, International memorial conference “D.S. Mitrović” (20.06.-22.06.1996), 24–24.
- [17] P.S. Stanimirović, Unconstrained optimization in LISP, XI Conference on Applied Mathematics, Budva (3.06.-6.06.1996), 65–65.
- [16] G.V. Milovanović, P.S. Stanimirović, Rank factorization and Moore-Penrose inverse, XI Conference on Applied Mathematics, Budva (3.06.-6.06.1996), 83–83.
- [15] J. Madić, P.S. Stanimirović, Solving system of linear equations by means of mathematical spectra, YU INFO, Brezovica (2.4.-5.4.1996).
- [14] P.S. Stanimirović, M. Ristić, Computing the Moore-Penrose and $\{i,j,k\}$ -inverses using the package MATHEMATICA, IX Kongres Jugoslovenskih Matematičara, Petrovac (22.5.–27.5.1995), 165–165.
- [13] P.S. Stanimirović, M. Stanković, Determinantal representation of $\{1,2\}$, $\{1,2,3\}$ and $\{1,2,4\}$ inverses, IX Kongres Jugoslovenskih Matematičara, Petrovac (22.5.–27.5.1995), 152–153.
- [12] P.S. Stanimirović, k -commutative weak inverses and Jordan canonical form, IX Kongres Jugoslovenskih Matematičara, Petrovac (22.5.–27.5.1995), 151–152.
- [11] P.S. Stanimirović, M. Stanković, Determinantal representation of generalized inverses over integral domains, International Conference on Algebra, Logic & Discrete Mathematics, Niš (14.4.–16.4.1995), 105–105.
- [10] J. Madić, P.S. Stanimirović, Computing determinants by means of mathematical spectra, YU INFO, Brezovica (4.4.-7.4.1995).
- [9] P.S. Stanimirović, M. Stanković, Interpretator programskog jezika za primenu u generalisanim inverzima, X internacionalni naučni skup Preventivni Inženjering i Informacione Tehnologije, Niš (8.12-10.12. 1994).
- [8] J. Madić, P.S. Stanimirović, Realizacija aritmetičkih operacija sa matematičkim spektrima baziranim na kodovima Hensela, Filomat '94, Niš (20.10.-22.10. 1994), 17–17.
- [7] P.S. Stanimirović, Computing pseudoinverses using minors of arbitrary matrices, Filomat '94, Niš (20.10.-22.10.1994), 12–12.
- [6] J. Madić, P.S. Stanimirović, Sabiranje, oduzimanje i množenje sekvenci razlomaka pomoću p -adičke aritmetike i matematičkih spektara, I Mathematical Conference in Priština (28.09.-01.10. 1994).
- [5] M. Stanković, M. Djurić, P.S. Stanimirović, Group inverse and k -commutative inverses of rectangular matrices, I Mathematical Conference in Priština (28.09.-01.10. 1994).
- [4] M. Stanković, V. Rakočević, P.S. Stanimirović, Approximate properties of the Moore-Penrose inverse and its applications I, VIII Seminar on Applied Mathematics, Tivat (27.05.-29.05.1993), 36–36.
- [3] J. Madić, M. Stanković, P.S. Stanimirović, Efektivna memorijska reprezentacija matematičkih spektara, VIII Seminar on Applied Mathematics, Tivat (27.05. -29.05.1993), 21–21.
- [2] P.S. Stanimirović, M. Stanković, Computing rectangular determinants, generalized inverses and square submatrices, VIII Seminar on Applied Mathematics, Tivat (27.05. -29.05.1993), 35–35.
- [1] M. Stanković, J. Madić, P.S. Stanimirović, Interpreter for application of mathematical spectra, VI Conference on Logic and Computer Science, LIRA '92, Novi Sad (29.10. -31.10.1992), 149–150.

APPENDIX 3: Invited and Keynote talks

- [26] P.S. Stanimirović, Application of recurrent neural networks and generalized inverses in optimization and design of perfect minimum energy control, MMAR 2024 (The 28th International Conference on Methods and Models in Automation and Robotics), 27-30 August 2024, Faculty of Electrical Engineering, West Pomeranian University of Technology in Szczecin, Międzyzdroje, Poland, <http://mmar.edu.pl/index.php/program/plenary-talks/>.
- [25] P.S. Stanimirović, Optimization methods in gradient and zeroing neural networks, II International Workshop «Hybrid methods of modelling and optimization in complex systems» - HMMOCS-II 2023 (Krasnoyarsk, 30 November 2023), <https://conf.domnit.ru/en/conferences/hmmocs-2023/>.
- [24] P.S. Stanimirović, Recurrent Neural Networks for solving matrix equations, Workshop on Tensor Computation and Machine Learning (TCML), November 17-18, 2023., Department of Computational and Data Sciences, Indian Institute of Science (IISc), Bangalore, India,

- <https://cds.iisc.ac.in/news/workshop-on-tensor-computation-and-machine-learning-tcml-november-17-18-2023/>
- [23] P.S. Stanimirović, Recurrent Neural Networks in matrix computations, IW-LARA (International Workshop on Linear Algebra and Related Areas) 1st to 3rd November 2023, BITS Pilani K. K. Birla Goa Campus, NH 17B, Bypass Road, Zuarinagar, Sancoale, Goa, India, <https://www.bits-goia.ac.in/LARA2023/#speakers>.
- [22] P.S. Stanimirović, Optimization methods in gradient and zeroing neural networks, Invited talk, 22nd International conference "Mathematical Optimization Theory and Operations Research" (MOTOR2023), Ekaterinburg, Russian Federation, <http://motor2023.uran.ru>, July 2-8, 2023,
- [21] IV International Scientific and Practical Conference "ARTIFICIAL INTELLIGENCE: technogenic versus social", May 25-26, 2023, Krasnoyarsk
- [20] P.S. Stanimirović, Hybridization of nonlinear optimization, Gradient, and Zeroing Neural Networks, Keynote talk, 9th International Conference on Mathematics and Computing, ICMC 2023, Department of Mathematics, BITS Pilani K. K. Birla Goa Campus (<https://bits-pilani.ac.in/goa/>), January 6th, 2023, <https://bits-goia.ac.in/ICMC/>
- [19] P.S. Stanimirović, Gradient and Subderivative Zeroing Neural Networks, Seminar invited by Chinese Academy of Sciences in Chongqing. Time: December 16. Online talk.
- [18] P.S. Stanimirović, "Zeroing neural networks and modern methods of non-linear optimization", Melentiev Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia (November 16, 2022).
- [17] P.S. Stanimirović, "Hybrid algorithms for solving matrix equations", Reshetnev Readings, International Scientific Conference dedicated to the memory of the space-rocket systems general designer M.F. Reshetnev, Krasnoyarsk, November 9-11, 2022.
- [16] P.S. Stanimirović, "Zeroing Neural Networks in time-varying matrix computations", Siberian State University of Science and Technology, (November 8, 2022).
- [15] P.S. Stanimirović, "Characterizations, representations, and calculation of generalized inverses", Siberian State University of Science and Technology, (November 7, 2022).
- [14] P.S. Stanimirović, "Gradient-based and subgradient algorithms for solving nonlinear optimization", Siberian State University of Science and Technology, (November 7, 2022).
- [13] P.S. Stanimirović, Control of nonlinear dynamical systems by zeroing neural networks, "Artificial Intelligence and New Technology Applied in Agriculture and Fisheries" Graduate Forum, Organizer: Guangdong Ocean University, Time: December 26-28, 2021, Location: Zhanjiang Fontainebleau Hotel, Online talk.
- [12] P.S. Stanimirović, Control of nonlinear dynamical systems by gradient and zeroing neural networks, Online meeting, Guangdong Ocean University, (December 27, 2021).
- [11] P.S. Stanimirović, Solving time-varying problems in numerical linear algebra by means of zeroing neural networks, Online meeting, Lanzhou University, (July 08, 2021).
- [10] P.S. Stanimirović, Solving time-varying problems in numerical linear algebra by means of zeroing neural networks, The 51st Annual Iranian Mathematics Conference (AIMC51), 15-20 February 2021, Faculty of Mathematical Sciences of the University of Kashan, Iran, Online conference.
- [9] P.S. Stanimirović, Solving time-varying problems in numerical linear algebra by means of zeroing neural networks, Online meeting, Fudan University, (December 13, 2020).
- [8] P.S. Stanimirović, Gradient dynamical systems for Solving matrix equations and computing generalized inverses, 2020, 4th International Conference on Modeling, Simulation and Applied Mathematics (MSAM2020), Wuhan, China (January 11-13, 2020).
- [7] P.S. Stanimirović, Application of zeroing neural networks in numerical linear algebra, Jishou University, Jishou, 18.10.2019.
- [6] P.S. Stanimirović, Application of gradient and zeroing neural networks in linear algebra, Fudan University, Shanghai, 30.3.2019.
- [5] P.S. Stanimirović, Symbolic Computations in Matrix Algebra, The Third Conference on Computational Algebra, Computational Number Theory and Applications, (CACNA 2018), University of Kashan, Kashan, Iran, (12.12. - 14.12.2018).
- [4] P.S. Stanimirović, Integration Enhanced ZNN for Computing Time-Varying Complex Outer Inverses, The 1st International Conference on Advanced Robotics and Intelligent Control (ICARIC 2018), Jishou University, Jishou City, China (11.10. -14.10.2018).
- [3] Application of gradient and zeroing neural networks in linear algebra, Yunnan University, Kunming (28.9.2018).
- [2] P.S. Stanimirović, Solving indefinite least-squares problem using generalized inverses and Recurrent Neural Network, XIX Geometrical Seminar, Zlatibor, Serbia (28.08.-04.09.2016).
- [1] P.S. Stanimirović, N. Stojković, Initialization of the Simplex Algorithm, XI International May conference on strategic management IMKSM 2015, University of Belgrade, Technical Faculty in Bor (29.05. -31.05.2015).

APPENDIX 4: Papers in Russian

[1R] В. Н. Крутиков, П. С. Станимирович, О. Н. Инденко, Е. М. Товбис , Л. А. Казаковцев, Оптимизация параметров субградиентного метода на основе двухранговой коррекции матриц метрики, Дискретный анализ и исследование операций, Июль–сентябрь 2022. Т. 29, № 3. С. 24–44, <https://doi.org/10.33048/daio.2022.29.739>.