

**Marko Simeunović**  
**- Curriculum Vitae -**



PERSONAL INFORMATION	
First name:	Marko
Last name:	Simeunović
Birth date:	September 24, 1985.
Birth place:	Tuzla, Bosnia & Herzegovina
Sex:	Male
Marital status:	Married, three daughters
Citizenship:	Montenegro and Bosnia & Herzegovina
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**AREAS OF CURRENT INTEREST AND RESEARCH**

Time-frequency signal analysis  
Parameter estimation  
Statistical and array signal processing  
Genetic algorithm application  
Search optimization  
Radar and sonar signal processing  
Programming  
Internet of things  
Multispectral image processing

**EDUCATION**

**2007:** B. Sc. degree in Electrical Engineering at the University of Montenegro with the honors as the best student at the Faculty of Electrical Engineering

**2009:** M. Sc. degree in Electrical Engineering at the University of Montenegro

**2013:** Ph. D. degree in Electrical Engineering at the University of Montenegro

**PROFESSIONAL EXPERIENCE**

**Positions:**

**2022 – present:** Associate professor at Faculty of Applied Sciences, University of Donja Gorica, Montenegro

**2022 – present:** Co-founder of MoDrone

**2023 – 2024:** External part-time researcher at Smart Irrigation doo

**2019 – 2024:** External part-time researcher at Optimus Consulting doo

**2022 – 2022:** Associate professor at Faculty of Information Systems and Technology, University of Donja Gorica, Montenegro

**2020 – 2022:** Associate professor at Department of Town planning, Engineering networks and systems of Institute of Architecture and Construction, South Ural State University, Chelyabinsk, Russia

**2017 – 2022:** Assistant professor at Faculty of Information Systems and Technology, University of Donja Gorica, Montenegro

**2016 – 2017:** Lecturer at Faculty of Information Systems and Technology, University of Donja Gorica,

## Montenegro

**2016 – 2016:** PostDoc researcher in Pattern recognition and image processing at the University of Montenegro, Electrical Engineering Department

**2014 – 2016:** ICT Researcher and Research Developer specialized for e-service engineering at the University of Montenegro, Electrical Engineering Department

**2015 – 2015:** Lecturer at the Faculty of Philosophy, University of Montenegro

**2008 – 2014:** Teaching/research assistant at the University of Montenegro

## Teaching/taught courses:

**University of Donja Gorica:** Java, Informatics II, Business Informatics, Mathematics, Computer Sciences III, Programming and Algorithms, Electrical Engineering, Signals and Systems, Information Systems, Business Decision Making Information Systems, Business Information Systems and Technologies, Project for Customer, Digital Signal Processing, Mathematics Modeling.

**University of Montenegro:** Basics of Computer Engineering II, Programming Principles, Computer programming I, Computer Programming II, Signals and Systems, Web Design PHP & MySQL, Digital Image Processing, Object Oriented Software Design, Programming for Applications - VBA, Adaptive Discrete Systems and Neural Networks, Mathematics in Computer Sciences (advanced course) and Web Programming – Java.

## Memberships:

**2020 present:** – Associate Editorial Board Member of Current Chinese Science Journal (Field: Signal Processing)

**2019 present:** – Representative of Montenegro in Governing Board of European High-Performance Computing (EuroHPC) Joint Undertaking

**2019 present:** – Member of Committee for information communication technologies, Montenegrin Academy of Science and Arts

**2017 – 2023:** Member of sector commission for natural sciences - Montenegro Qualification Framework

**2017 – 2023:** Member of coordination team for realization of Strategy of education of teachers in Montenegro

**2019 – 2024:** Member of Centre of Young Researchers and Artists, Montenegrin Academy of Science and Arts

**2015 – 2018:** Member of Centre of Young Researchers, Montenegrin Academy of Science and Arts

**2014 – 2017:** Member of the IEEE

**2009 – 2013:** Student Member of the IEEE

## Reviewer in the following journals:

- IEEE Transactions on Signal Processing
- IEEE Signal Processing Letters
- IEEE Transactions on Aerospace and Electronic Systems
- Signal Processing Elsevier
- Digital Signal Processing
- Circuits, Systems & Signal Processing
- IET Radar, Sonar and Navigation
- Journal of Electrical and Computer Engineering
- Artificial Intelligence in Medicine
- IET Communications

- IEEE Sensor Journal
- Sensors
- Batteries
- Multidimensional Systems and Signal Processing
- AIMS Mathematics
- Transactions on Geoscience and Remote Sensing

#### **Other professional engagements:**

- Court IT expert
- Consulting services in the area of IT systems implementation and design
- Supply tenders evaluator
- Co-founder of MoDrone (<https://modrone.me/>)

## GRANTS AND FELLOWSHIPS

#### **Short stays:**

**2011:** Tampere University of Technology, Tampere, Finland  
**2013:** Petroleum Institute, Abu Dhabi, United Arab Emirates  
**2014:** Jožef Stefan Institute, Ljubljana, Slovenia  
**2018:** Zhejiang Normal University, Jinhua, China  
**2019:** University of Tartu, Tartu, Estonia

## LANGUAGES

**Native language:** Serbian (same as Montenegrin, Bosnian and Croatian)

**Foreign language:** English

## HONORS AND AWARDS

**2007:** Best student award at University of Montenegro, Electrical Engineering Department  
**2013:** Montenegrin Academy of Sciences and Arts - Award for outstanding scientific achievements  
**2022:** Ministry of Science and Technological Development of Montenegro – Award for Innovator of the year

## SKILLS

Great experience in implementation of scientific research projects

Years of experience in signal and image processing

Network algorithms development

Experience in algorithm optimization, especially in metaheuristic search strategies

Great experience in Internet of Things concepts implementation

Great experience in:

- C/C++
- Matlab/Octave
- Visual Basic for Applications
- JAVA
- PHP & MYSQL
- CSS
- Javascript
- iOS and Android programming
- Arduino programming
- Phyton

## PROJECTS

### **Scientific and educational projects:**

**2025 - 2025**: Head of the team realizing Interreg IPA Embrace project "GNSS-based IoT System for Smart Monitoring of Landslides and Agriculture Applications".

**2025 – 2025:** Head of the team realizing the project "IndoorTech-Innovative Indoor Technology for Smart Management" funded by the Innovation Fund of Montenegro.

**2024 – 2026:** Technical leader of the team realizing innovative project "An AI/IoT-based fully qualified sensor system development for real-time monitoring of a landslides".

**2024 – 2026:** Technical leader of MoDrone team realizing Danube InterReg project "An AI/IoT-based system of geosensor networks for real-time monitoring of unstable terrain and artificial structures".

**2023 – 2023:** Member of the team realizing innovative voucher "Validation of geosensor technology for monitoring the movement of landslides at the Topliš hill (Budva, Montenegro)".

**2023 – 2023:** Member of the team realizing the H2020 project PAE (H2020 Smart4ALL) ViTech - Vision Technology for Cyber-Physical-Systems in Peri-urban Agriculture.

**2023 – 2023:** Member of the team realizing the H2020 project KTE DELTA - An AI-based algorithm for optimized 3D drone flight path planning.

**2023 – 2023:** Head of the team realizing startup development project "Artificial Intelligence Smart Irrigation System".

**2023 – 2025:** Head of the team realizing the Horizon Europe project "Integrating a Comprehensive European Approach for Climate Change Mitigation and Adaptation in Montenegro Viticulture".

**2022 – 2023:** Member of the team realizing the H2020 project Smart4All KTE "AI-based support algorithm for real-time pollen monitoring IoT system".

**2021 – 2021:** Member of the team realizing the H2020 project Smart4All KTE Covid XRD.

**2020 – 2022:** Member of the team (*one of three team leaders from Montenegrin side*) realizing the H2020 project EUROCC with the aim of establishing a single National Competence Centre in the area of high-performance computing.

**2020 – 2022:** Head of the team realizing the project "Application of biosensors in authentication, quality and food safety testing".

**2020 – 2022:** Head of the team realizing the IPA project "ECOMON – Internet of Things Laboratory for Real-Time Ecological Monitoring".

**2020 – 2023:** Member of the team realizing the center of excellence "Centre of Excellence for Digitalization of Microbial Food Safety Risk Assessment and Quality Parameters for Accurate Food Authenticity Certification", financed by the Ministry of Science of Montenegro (leader of ICT scientific group).

**2020 – 2022:** Head of the team realizing innovative project "Smart milk monitoring system". The project is realized with support of the Ministry of Science of Montenegro.

**2019 – 2022:** Member of the team realizing H2020 project DEMETER.

**2019 – 2021:** Member of the team realizing research project "Digital Transformation of Agriculture and Food Supply Chain in Montenegro".

**2019 – 2020:** Head of the team realizing innovative project "Real-Time Environmental Parameters Monitoring System". The project is realized with support of the Ministry of Science of Montenegro.

**2019 – 2020:** Member of the team realizing innovative project "Joining to EUREF Permanent Network with Multi GNSS CORS Stations in Montenegro". The project is realized with support of the Ministry of Science of Montenegro.

<b>2018 – 2019:</b>	Head of the IT team realizing H2020 project "HoneyTag – Brand protection and Quality Improvement for Montenegrin Honey". The project is the part of TagItSmart! project.
<b>2018 – 2018:</b>	Member of the team realizing ERASMUS+ project "School-to-Work Transition for Higher education students with disabilities in Serbia, Montenegro and Bosnia & Herzegovina".
<b>2018 – 2018:</b>	Member of the team realizing ERASMUS+ project "Western Balkans Urban Agriculture Initiative".
<b>2017 – 2018:</b>	Member of the team realizing H2020 project "TagItWine Pilot for Brand Protection and Anti- Counterfeiting in Wine Industry". The project is the part of TagItSmart! project.
<b>2016 – 2018:</b>	Member of the team realizing ERASMUS+ project "Establishing Modern Master-level Studies in Information Systems".
<b>2016 – 2016:</b>	Member of the team realizing the first center of excellence "BIO-ICT Centre of Excellence", financed by the Ministry of Science of Montenegro through a World Bank loan from June 2014.
<b>2014 – 2016:</b>	Member of the group realizing the project "Efficient Processing and Analysis of Medical Images using GPGPU Technology". The project is realized with support of the Ministry of Science of Montenegro.
<b>2014 – 2016:</b>	Member of the group realizing the FP7 project "Fostering Innovation Based Research for e-Montenegro". REGPOT Grant Agreement No. 315970.
<b>2012 – 2015:</b>	Member of the group realizing "Intelligent Search Optimization Techniques with Application to Parameter Estimation, Communications and Power Systems". The project is realized with support of the Ministry of Science of Montenegro.
<b>2008 – 2011:</b>	Member of the group realizing "Multiparameter optimization for signal estimation and filtering". The project is realized with support of the Ministry of Science of Montenegro.

### **Other projects:**

- ICT expert providing services in designing sustainable knowledge database within "Strengthening the capacities of CFCU Montenegro for management and implementation of EU funds" project.
- Supply tenders evaluator in several national research and innovative projects (Intelligent Search Optimization Techniques with Application to Parameter Estimation, Communications and Power Systems, RTEMPS, SmartMilk, ECOMON, etc.).
- Information system design and implementation for monitoring of renewable sources projects for the Ministry of Finance of Montenegro.
- Cordova based mobile application and web site for H2020 HoneyTag project.
- Web site of rent-a-car company My rent-a-car from Budva.
- Web site of United Kingdom Alumni Association of Montenegro.
- Web site of Faculty of Electrical Engineering, University of Montenegro.
- Web site of NP Trade company from Podgorica.
- Web site of the Fore-Mont project.
- Web site of the BIO-ICT project.
- Web site of NVO Kutak for cultural happenings in Montenegro.
- iOS application for the Be Responsible project.
- Windows application for rent-a-car company My rent-a-car from Budva.
- Windows application for hunting association Dubrava, Zabrdje, Bosnia and Herzegovina.
- Fast reports generation Windows application for student activity monitoring during semester.

### **PATENTS**

<b>2022:</b>	IoT Based System for real-time monitoring of milk parameters connecting all stakeholders in milk production value chain – national patent no. P-2022-27.
<b>2020:</b>	The Universal Device For Data Transfer of Water Quality Parameter Values and Integration with The Information System for Real-Time Environmental Supervision – national patent

## REPRESENTATIVE PUBLICATIONS

All international journal papers are published in the leading world's journal from the research area. Here, only several of them are listed:

- M. Simeunović and I. Djurović, "CPF-HAF estimator of polynomial phase signals," *Electronics Letters*, vol. 47, no. 17, August 2011, pp. 965-966.
- I. Djurović, M. Simeunović, S. Djukanović and P. Wang, "A Hybrid CPF-HAF Estimation of Polynomial-Phase Signals: Detailed Statistical Analysis," *IEEE Transactions on Signal Processing*, vol. 60, no. 10, October 2012, pp. 5010-5023.
- M. Simeunović, I. Djurović and S. Djukanović, "A novel refinement technique for 2-D PPS parameter estimation," *Signal Processing*, vol. 94, January 2014, pp. 251-254.
- LJ. Stanković, I. Djurović, S. Stanković, M. Simeunović, S. Djukanović and M. Daković, "Instantaneous Frequency in Time-Frequency Analysis: Concept and Estimation Algorithm," *Digital Signal Processing*, vol. 35, December 2014, pp. 1-13.
- M. Simeunović, and I. Djurović, "Non-uniform sampled cubic phase function," *Signal Processing*, vol. 101, August 2014, pp. 99-103.
- M. Simeunović and I. Djurović, "Parameter estimation of multi-component 2D polynomial-phase signals using the 2D PHAF-based approach," *IEEE Transactions on Signal Processing*, vol. 64, no. 3, February 2016, pp. 771-782.
- I. Djurović and M. Simeunović, "Resolving aliasing effect in the QML estimation of PPSs," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 53, no. 3, July 2016.
- I. Djurović, M. Simeunović, and P Wang, "Cubic phase function: a simple solution to polynomial phase signal analysis," *Signal Processing (ISSN: 0165-1684)*, *Signal Processing*, vol. 135, 2017, pp. 48-66.
- I. Djurović, V. Popović-Bugarin, and M. Simeunović, "The STFT-based estimator of micro-Doppler parameters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 53, no. 3, 2017, pp. 1273-1283.
- I. Djurović and M. Simeunović, "Estimation of higher-order polynomial phase signals in impulsive noise," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 54, no. 4, 2018, pp. 1790-1798.
- M. Simeunović and I. Djurović, "A method for efficient maximization of PPS estimation functions," *Digital Signal Processing*, vol. 84, 2019, pp. 38-45.

# Marko Simeunović

## Bibliography

### International journals:

- [1] I. Djurović, C. Ioana, T. Thayaparan, LJ. Stanković, P. Wang, V. Popović and M. Simeunović, "Cubic phase function evaluation for multicomponent signals with application to SAR imaging," *IET Signal Processing* (ISSN:1751-9675), vol. 4, no. 4, August 2010, pp. 371-381.
- [2] M. Simeunović and I. Djurović, "CPF-HAF estimator of polynomial phase signals," *Electronics Letters*, vol. 47, no. 17, August 2011, pp. 965-966.
- [3] I. Djurović, S. Djukanović, M. Simeunović, P. Raković and B. Barkat, "An Efficient Joint Estimation of Wideband Polynomial-Phase Signal parameters and Direction-of-Arrival in Sensor Array, " *EURASIP Journal on Advances in Signal Processing*, vol. 2012, no. 1, February 2012, pp. 43.
- [4] I. Djurović, M. Simeunović and B. Lutovac, "Are genetic algorithms useful for the parameter estimation of FM signals?," *Digital Signal Processing*, vol. 22, no. 6, December 2012, pp. 1137-1144.
- [5] I. Djurović, M. Simeunović, S. Djukanović and P. Wang, "A Hybrid CPF-HAF Estimation of Polynomial-Phase Signals: Detailed Statistical Analysis," *IEEE Transactions on Signal Processing*, vol. 60, no. 10, October 2012, pp. 5010-5023.
- [6] M. Simeunović, I. Djurović and S. Djukanović, "A novel refinement technique for 2-D PPS parameter estimation," *Signal Processing*, vol. 94, January 2014, pp. 251-254.
- [7] I. Djurović and M. Simeunović, "Combined HO-CPF and HO-WD PPS Estimator," *Signal, Image and Video Processing*, vol. 9, no. 6, September 2015, pp. 1395-1400.
- [8] I. Djurović, V. Lukin, M. Simeunović and B. Barkat, "Quasi maximum likelihood estimator of polynomial phase signals for compressed sensed data," *International Journal of Electronics and Communications*, vol. 68, no. 7, July 2014, pp. 631-636.
- [9] M. Simeunović, and I. Djurović, "Non-uniform sampled cubic phase function," *Signal Processing*, vol. 101, August 2014, pp. 99-103.
- [10] I. Djurović, LJ. Stanković and M. Simeunović, "Robust time-frequency representation based on the signal normalization and concentration measures," *Signal Processing*, vol. 104, 2014, pp. 424-431.
- [11] I. Djurović, A. A. Zelensky, V. V. Lukin, A. A. Roenko and M. Simeunović, "Robust discrete Fourier transform advantages and applications," *Physical Bases of Instrumentation*, vol. 2014, no. 1.
- [12] I. Djurović, M. Simeunović and S. Djukanović, "Instantaneous frequency and polynomial phase parameter estimation using linear time-frequency representations," in *Time-Frequency Signal Analysis and Processing: A Comprehensive Review*, editor, B. Boashash, Elsevier, March 2015, pp. 615-622.
- [13] I. Djurović and M. Simeunović, "Parameter estimation of non-uniform sampled polynomial-phase signals using the HOCPF-WD," *Signal Processing*, vol. 106, January 2015, pp. 253-258.
- [14] LJ. Stanković, I. Djurović, S. Stanković, M. Simeunović, S. Djukanović and M. Daković, "Instantaneous Frequency in Time-Frequency Analysis: Concept and Estimation Algorithm," *Digital Signal Processing*, vol. 35, December 2014, pp. 1-13.
- [15] M. Simeunović and I. Djurović, "Parameter estimation of multi-component 2D polynomial-phase signals using the 2D PHAF-based approach," *IEEE Transactions on Signal Processing*, vol. 64, no. 3, February 2016, pp. 771-782.
- [16] I. Djurović and M. Simeunović, "Resolving aliasing effect in the QML estimation of PPSs," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 53, no. 3, July 2016.
- [17] R. A. Kozhemiakin, V. V. Lukin, S. K. Abramov, M. Simeunović, B. Djurović and I. Djurović "An approach to prediction and providing of compression ratio for DCT-based coder applied to multichannel remote sensing data," *Telecommunications and Radio Engineering*, vol. 75, no. 14, November 2016, pp. pages 1255-1269.
- [18] P. Raković, M. Simeunović, and I. Djurović, "On improvement of joint estimation of DOA and PPS coefficients impinging on ULA," *Signal Processing* (ISSN: 0165-1684), vol. 134, 2017, pp. 209-213.
- [19] I. Djurović, M. Simeunović, and P Wang, "Cubic phase function: a simple solution to polynomial phase signal analysis," *Signal Processing* (ISSN: 0165-1684), vol. 135, 2017, pp. 48-66.
- [20] I. Djurović, V. Popović-Bugarin, and M. Simeunović, "The STFT-based estimator of micro-Doppler parameters," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 53, no. 3, 2017, pp. 1273-1283.
- [21] I. Djurović and M. Simeunović, "Review of the quasi maximum likelihood estimator for polynomial phase signals," *Digital Signal Processing*, vol. 72, 2018, pp. 59-74.

- [22] I. Djurović and M. Simeunović, "Estimation of higher-order polynomial phase signals in impulsive noise," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 54, no. 4, 2018, pp. 1790-1798.
- [23] I. Djurović, P. Wang, M. Simeunović and P. V. Orlik, "Parameter estimation of coupled polynomial phase and sinusoidal FM signals," *Signal Processing*, vol. 149, 2018, pp. 1-13.
- [24] M. Simeunović, I. Djurović and A. Pelinković, "Parametric estimation of 2D cubic phase signals using high-order Wigner distribution with genetic algorithm," *Multidimensional Systems and Signal Processing*, vol. 30, no. 1, 2019, pp. 451-464.
- [25] I. Djurović, and M. Simeunović, "Parameter estimation of 2D polynomial phase signals using non-uniform sampling and 2D CPF," *IET Signal Processing*, vol. 12, no. 9, 2018, pp. 1140-1145.
- [26] V. N. Ivanović, N. Radović, I. Djurović, and M. Simeunović, "Hardware implementation of the quasi maximum likelihood estimator core for polynomial phase signals," *IET Circuits, Devices & Systems*, vol. 13, no. 2, 2019, pp. 131-138.
- [27] M. Simeunović and I. Djurović, "A method for efficient maximization of PPS estimation functions," *Digital Signal Processing*, vol. 84, 2019, pp. 38-45.
- [28] I. Djurović, M. Simeunović and P. Raković, "Quasi maximum-likelihood estimator of PPS on the uniform linear array," *Circuits, Systems & Signal Processing*, vol. 38, no. 10, 2019, pp. 4874-4889.
- [29] B. Barkat, M. Ali, M. Simeunović and I. Djurović, "A configuration with several linear subarrays for the joint estimation of the apparent velocity & direction of propagation of a seismic wave," *Journal of Petroleum Science and Engineering*, vol. 184, no. 1, 2020, pp. 1-11.
- [30] N. Radović, V. N. Ivanović, I. Djurović and M. Simeunović, "Multi-core hardware realization of the QML PPS estimator," *IET Computers & Digital Techniques (ISSN: 17518601)*, vol. 14, no. 5, 2020, pp. 187-192.
- [31] I. Djurović, M. Simeunović, and V. V. Lukin, "Estimating DOA and PPS parameters of signal received by ULA in heavy noise environment," *Journal of Electrical Engineering*, vol. 71, no. 3, 2020, pp. 175-184.
- [32] O. Roinenko, V. Lukin, V. Oliinyk, I. Djurović and M. Simeunović, "An Overview of the Adaptive Robust DFT and Its Applications," *Technological Innovation in Engineering Research*, vol. 4, 68-89, 2022.
- [33] N. Radović, V. N. Ivanović, I. Djurović, M. Simeunović and E. Sejdić "A step towards real-time time-frequency analyses with varying time-frequency resolutions: Hardware implementation of an adaptive S-transform," *Circuits, Systems & Signal Processing*, vol. 42, no. 2, 2023, pp. 853-874.
- [34] K. Ratković, N. Kovač and M. Simeunović, "Hybrid LSTM Model to Predict the Level of Air Pollution in Montenegro." *Applied Sciences* 13.18: 10152, 2023.
- [35] A. Fernandes, N. Kovač, H. Fraga, A. Fonseca, S. Šćur Radonjić, M. Simeunović, K. Ratković, C. Menz, S. Costafreda-Aumedes and J. A. Santos, "Challenges to Viticulture in Montenegro under Climate Change", *International Journal of Geo-Information*, vol. 13, no. 8, 2024.
- [36] M. Simeunović, K. Ratković, N. Kovač, T. Racković and A. Fernandes, "A Knowledge-Driven Framework for a Decision Support Platform in Sustainable Viticulture: Integrating Climate Data and Supporting Stakeholder Collaboration", *Sustainability*, vol. 17, no. 4, 2025.
- [37] S. Costafreda-Aumedes, L. Leolini, C. Menz, C. Yang, G. Argenti, C. Dibari, M. Bindi, H. Fraga, J. Santos, D. Molitor, J. A. Torres-Matallana, M. Simeunović and M. Moriondo, "Uncertainties in predicting the medium-term future occurrence of grapevine budburst in Europe: the role of phenological models and climate scenarios", *OENO One*, vol. 59, no. 2, May 2025.
- [38] L. Leolini, S. Costafreda-Aumedes, M. Biddoccu, R. Rossi, G. Padovan, M. Moretta, AR. Balingit, M. Coli, L. Brilli, N. Stagliano, G. Argenti, G. Capello, E. Paravidino, S. Bussotti, C. Dibari, M. Bindi, K. Ratković, M. Simeunović and M. Moriondo, "Future climate will reshape inter-row grass mowing in vineyards: A modelling approach for optimized agronomic management", *Italian Journal of Agronomy*, vol. 20, no. 4, December 2025.
- [39] N. Kovač, T. Bezdan, H. Farahani, M. Simeunović, and P. Watson, "Machine learning techniques in neuroimaging," in *Introduction to Intricate Artificial Psychology with Python*. Cambridge, MA, USA: Academic Press, 2026, pp. 255-287.
- [40] H. Farahani, N. Kovač, M. Simeunović, P. Watson, and J. Zhang, "Network approach in psychology," in *Introduction to Intricate Artificial Psychology with Python*. Cambridge, MA, USA: Academic Press, 2026, pp. 177-208.
- [41] N. Kovač, M. Simeunović, H. Farahani, and P. Watson, "Deep learning techniques in neuroimaging," in *Introduction to Intricate Artificial Psychology with Python*. Cambridge, MA, USA: Academic Press, 2026, pp. 209-254.

- [42] N. Kovač, M. Simeunović, H. Farahani, T. Bezdan, and P. Watson, "Becoming a PsychoPythonista," in *Introduction to Intricate Artificial Psychology with Python*. Cambridge, MA, USA: Academic Press, 2026, pp. 289–319.
- [43] N. Kovač, H. Farahani, M. Simeunović, and P. Watson, "Prediction in intricate artificial psychology," in *Introduction to Intricate Artificial Psychology with Python*. Cambridge, MA, USA: Academic Press, 2026, pp. 49–81.
- [44] N. Kovač, H. Farahani, P. Watson, and M. Simeunović, "Forecasting in complex artificial psychology," in *Introduction to Intricate Artificial Psychology with Python*. Cambridge, MA, USA: Academic Press, 2026, pp. 99–120.

#### **Domestic journals:**

- [1] I. Djurović i M. Simeunović, "Primjena genetičkih algoritama u estimaciji parametara polinomijalno-faznih signala," *ETF Journal of Electrical Engineering*, vol. 19, no. 1, Oktobar, 2011.
- [2] I. Djurović, M. Simeunović i S. Djukanović, "Združena estimacija dolaznog ugla i parametara polinomijalno faznih signala primljenih antenskom rešetkom," *Glasnik OPN CANU*, vol. 20, 2014.

#### **Visiting lectures:**

- [1] M. Simeunović "Introduction to Arduino programming", *Low level programming and operating systems workshop*, University of Tartu, Estonia, 22.05.2019.
- [2] M. Simeunović "Internet of Things concepts", University of Tartu, Estonia, 24.05.2019.
- [3] M. Simeunović "Signal processing and applications", University of Tartu, Estonia, 25.05.2019.

#### **International conferences:**

- [1] I. Djurović i M. Simeunović, "Izvođenje izraza za bias i varijansu kubične fazne funkcije," Etran, Vrnjačka Banja, jun 2009.
- [2] N. Ponomarenko, V. Lukin, I. Djurović and M. Simeunović, "Pre-filtering of multichannel remote sensing data for agricultural bare soil field parameter estimation," BioSense09, Novi Sad, October 2009.
- [3] I. Djurović, P. Wang, C. Ioana and M. Simeunović, "Cubic Phase Function For Two-Dimensional Polynomial-Phase Signals," EUSIPCO 2010, Aalborg, Denmark, 2010.
- [4] V. Lukin, S. Abramov, V. Zabrodina, D. Kurkin, A. Roenko, I. Djurović, M. Simeunović, "Automation of processing multichannel remote sensing images from spaceborne sensors," 9th International Seminar on Mathematical Models & Modeling in Laser-plasma processes, Petrovac 2011 (rad prezentiran).
- [5] S. Djukanović, M. Simeunović and I. Djurović, "Estimation Refinement Techniques for the Cubic Phase Function," TELFOR 2011, Beograd, November 2011.
- [6] S. Djukanović, M. Simeunović and I. Djurović, "Refinement in the estimation of multicomponent polynomial-phase signals," Proceedings of the 2012 IEEE International Conference on Acoustics, Speech and Signal Processing ICASSP-2012, Kyoto, Japan, pp. 3957-3960, March 2012.
- [7] I. Djurović and M. Simeunović, "Recent advances in the estimation of the polynomial-phase signals," MECO 2012, Bar, June 2012.
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