

Lazar Mrkela

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Educational background

- **PhD Studies** 2016 - present
Field: Computer Science, Artificial Intelligence
GPA: 10.00/10.00
Faculty of Mathematics, University of Belgrade
Informatics and Computer Science Department

Completed PhD courses: Machine Learning, Computational Intelligence, Meta-heuristics, Digital Image Processing, Software Development and Computer Networks.

- **MSc Studies** 2014 - 2016
Field: Computer Science
GPA: 9.62/10.00
Faculty of Mathematics, University of Belgrade
Thesis: "*Meta-heuristic Methods for Optimal Wireless Mesh Network Planning*"
- **Bachelor Studies** 2011 - 2014
Field: Computer Science
GPA: 8.93/10.00
Faculty of Mathematics, University of Belgrade

Work experience

- **Teaching Assistant** 2017 - present
Faculty of Information Technology,
Belgrade Metropolitan University
Courses: Java, C++, Algorithms, Software Engineering
- **Software Engineer** 2016 - 2017
Institute Mihailo Pupin - IMP Telecommunications
Design and implementation of *Information system for monitoring teleprotection devices* (for Serbian national transmission system operator)

Projects

- Project 174010, “Mathematical Models and Optimization Methods for Large-Scale Systems”, Ministry of Education and Science, Republic of Serbia
- Information system for monitoring teleprotection devices in power grid (for Serbian national transmission system operator)
- Machine learning methods for medical image processing (as part of PhD studies)
- ERASMUS+ Project “Introduction of part-time and short cycle studies in Serbia”
- RFP 510 Serbia at your fingertips – Digital transformation for development – “UNDP prequalification programme”
- Online platform for creating, editing and analyzing teaching materials at Belgrade Metropolitan University

Skills

- *Programming languages:* C, C++, C#, Java, Python, JavaScript, PHP, MATLAB, SQL
- *Libraries:* Keras, TensorFlow, OpenCV, OpenGL
- *IDEs:* Visual Studio, QT Creator, NetBeans, Eclipse, PyCharm
- *Other:* CUDA, CPLEX, GUROBI, AMPL, IBM SPSS

Research

- Research interests: Meta-heuristic algorithms, Machine Learning, Soft Computing, Digital Image Processing, Swarm Intelligence, Evolutionary Computation
- Google Scholar: <https://scholar.google.com/citations?user=Jp4H6GkAAAAJ>
- ORCID: <https://orcid.org/0000-0003-4387-9636>
- Reviewer for *IEEE Transactions on Medical Imaging* and *Ambient Intelligence and Humanized Computing* journals (<https://publons.com/researcher/3868408/lazar-mrkela/>)
- Participated in the Big Data Analytics Summer School 2019 (<https://project-lambda.org/>)