

# DRAGUTIN OSTOJIĆ

🏠 Dimitrija Tucovića 30V/29, 34 000 Kragujevac, Serbia • Serbian Nationality

☎ +381 64/16-19-857 • ✉ dragutin.ostojic@pmf.kg.ac.rs

🏛 Faculty of Science, Department of Mathematics and Informatics, University of Kragujevac, Serbia

📍 Radoja Domanovića 12, 34 000 Kragujevac, Serbia

☎ +381 34/33-62-23 ext. 299 • 🌐 <https://imi.pmf.kg.ac.rs>

## EDUCATION

---

<b>Faculty of Science</b> • University of Kragujevac, Serbia <i>Ph.D. in Computer Science • Dpt. of Mathematics and Informatics</i>	2020 –
<b>Faculty of Science</b> • University of Kragujevac, Serbia <i>M.Sc. in Informatics • Dpt. of Mathematics and Informatics</i>	2018 – 2020
<b>Faculty of Science</b> • University of Kragujevac, Serbia <i>B.Sc. in Informatics • Dpt. of Mathematics and Informatics</i>	2013 – 2018
<b>First Kragujevac Gymnasium</b> • Kragujevac, Serbia <i>Specialized mathematics class</i>	2009 – 2013

## WORK EXPERIENCE

---

<b>Research Internship</b> • Center for Data Analytics and Biomedical Informatics, College of Science and Technology • Temple University, Philadelphia, USA <i>Scheduling problems</i>	2023 –
<b>Research Internship</b> • Mathematical Institute of the Serbian Academy of Sciences and Arts • Belgrade, Serbia <i>Scheduling problems</i>	2021 –
<b>Teaching Assistant</b> • Master 4.0 • University of Kragujevac, Serbia <i>3D Computer Graphics</i>	2020 –
<b>Teaching Assistant</b> • Faculty of Science • University of Kragujevac, Serbia <i>Computer Graphics • Parallel Programming • Data Structures and Algorithms 1 • Data Structures and Algorithms 2 • Operating Systems 2 • Algorithm Strategies • Object-Oriented Programming Practicum • Information Theory • Intelligent Systems</i>	2019 –
<b>Teacher</b> • First Kragujevac Gymnasium • Kragujevac, Serbia <i>Programming and Programming Languages (SM and SI) • Advanced Programming Techniques (SI)</i>	2018 – 2022
<b>Teacher</b> • IT Azbuka • Kragujevac, Serbia <i>Web Programming • Scratch Programming • Robotics</i>	2017 – 2019
<b>Software Engineer</b> • Technomedia Ltd. • Kragujevac, Serbia <i>IoT • Java • C++</i>	2017 – 2018
<b>Software Engineer</b> • Beson Distributie BV • Amsterdam, Netherlands <i>Information Systems • Laravel</i>	2016 – 2017
<b>Software Engineer</b> • Centrebuild Ltd. • Kragujevac, Serbia <i>Web • PHP</i>	2016
<b>System Administrator</b> • Global Connect Agency • Kragujevac, Serbia <i>Technical Support • Maintaining Network</i>	2013 – 2014
<b>Teacher</b> • Preparing for competitions for elementary and high school students <i>Mathematics • Programming</i>	2013 –

## PROJECTS

---

- DEEPTECH-2M, Deep Tech Materials and Manufacturing Talent Development for an Improved EU Economy and Climate, EIT HEI Initiative, 2023.
- SMART-2M, Innovation Capacity Building for Higher Education in Industry 4.0 and Smart Manufacturing, EIT HEI Initiative, 2021-2023.
- Extreme Science, Center for the Promotion of Science, Ministry of Education, Science and Technological Development of the Republic Serbia, 2022.
- AI4TrustBC - Advanced Artificial Intelligence Techniques for Analysis and Design of System Components Based on Trustworthy Blockchain Technology, Science Fund Republic of Serbia, 2021-2022.

## PUBLICATIONS

---

- Ostojić, D., and Golonek, T., Indirect Method for Identification of Electric Power Generated by Means of Panel of Thermoelectric Modules, *Artificial Intelligence Conference*, Belgrade, Dec. 26-27, 2023, pp. 91.
- Ostojić, D., Urošević, A., Davidović, T., Jakšić-Krüger, T., Ramljak, D., Decomposition-Based Efficient Heuristic for Scheduling, *50th International Symposium on Operational Research (SYM-OP-IS 2023)*, Tara, Sept. 18-21, 2023, pp. 1027-1034.
- Milenković, A., Ostojić, D., Maksimović, A., Using Logistic Regression to Explain Enhancing Adolescent Students' Interest in Mathematics, Physics and Computer Science through STEM Workshops, *Transformations in Education Policy and Culture: Teacher Education and School Creation in the Anthropocene*, Vilnius, May 25-26, 2023.
- Maleš, U., Ramljak, D., Jakšić-Krüger, T., Davidović, T., Ostojić, D., Haridas, A., Controlling the Difficulty of Combinatorial Optimization Problems for Fair Proof-of-Useful-Work-Based Blockchain Consensus Protocol, *Symmetry*, Special Issue "Advances in Multidisciplinary Exploration for Symmetric Key Cryptography and Blockchain Technology", 15(1), pp. 140:1-32, 2023. DOI: 10.3390/sym15010140
- Ostojić, D., Arsić, B., Stojanović, T., Miletić Vidanović, N., Efficient Model for English to Serbian Neural Machine Translation, *First Serbian International Conference on Applied Artificial Intelligence (SICAAI)*, Kragujevac, May 19-20, 2022.
- Ostojić, D., Davidović, T., Jakšić-Krüger, T., Ramljak, D., Comparative Analysis of Heuristic Approaches to P||Cmax, *Proc. 11th International Conference on Operations Research and Enterprise Systems (ICORES 2022)*, (virtual), Feb. 3-5, 2022, pp. 259-266. DOI: 10.5220/0011008500003117
- Ostojić, D., Application of Recurrent Neural Networks in Natural Language Processing, *master thesis*, supervisor Stojanović T., Faculty of Science, University of Kragujevac, Kragujevac, 2020.
- Ostojić, D., Advanced Parallel Programming Techniques, *graduate thesis*, supervisor Ivanović M., Faculty of Science, University of Kragujevac, Kragujevac, 2018.

## AWARDS

---

- *Diploma of Mathematical Institute of the Serbian Academy of Sciences and Arts for successfully completed project Implementation of Bee Colony Optimization Algorithm for Spectral Reconstruction of Graph*, Belgrade, 2021.
- *Annual Award of the Mathematical Institute of the Serbian Academy of Sciences and Arts in the field of computing for M.Sc. students*, Belgrade, 2021.
- *Social Impact Award*, finalist (team HAL), Razlivalište, Belgrade, 2021.
- *MIND Hackathon*, II place (team HAL), MIND Group, Kragujevac, 2021.
- *HAKATON KG*, finalist (team HAL), Business Innovation Center, Embassy of Israel in Serbia, Kragujevac, 2021.
- *IoT Hackathon Kragujevac*, I place (team HAL), UNDP, Kragujevac, 2020.
- *Comtrade Edit*, best individual, Comtrade, Kragujevac, 2017.
- *Microsoft Bubble Cup*, finalist, Microsoft, Belgrade, 2013.
- *Republic Center for Talents - Mathematic*, II place, Belgrade, 2013.
- *Republic Center for Talents - Mathematic*, special reward for research, Belgrade, 2013.
- *Award of Dositeja*, Belgrade, 2012.
- *Award of Fondation for 5+*, Belgrade, 2012.
- *National Competition in Informatics*, III place A category, Belgrade, 2012.
- *Serbian Olympiad in Informatics*, III place, Belgrade, 2011.
- *Republic Center for Talents - Mathematic*, III place, Belgrade, 2011.
- *National Competition in Informatics*, III place A category, Belgrade, 2011.
- *National Competition in Mathematics*, III place A category, Kragujevac, 2010.
- *Republic Center for Talents - Mathematic*, I place, Belgrade, 2010.
- *Award Vuk Karadžić*, Kragujevac, 2009.
- *International Kangaroo Mathematics Contest*, III place, Belgrade, 2008.
- *National Competition in Mathematics*, II place, Niš, 2008.

## ADDITIONAL EDUCATION

---

- *Deeptech and Innovation*, EIT HEI Initiative, DEEPTTECH-2M, Dublin City University, Ireland, University of Kragujevac, Serbia, (virtual), 2023.
- *Summer School for the Future (STEM) Leaders*, Western Balkans Fund, University of Montenegro, Mathematical Institute of the Serbian Academy of Sciences and Arts, University of East Sarajevo, University of Mostar, Ss. Cyril and Methodius University, Ismail Qemali University of Vlorë, Petrovac, Montenegro, 2023.
- *Research internship*, Ministry of Education, Science, Research and Sport of the Slovak Republic, Recovery and Resilience Plan, NextGenerationEU, Faculty of Informatics and Information Technologies, Slovak University of Technology in Bratislava, Bratislava, Slovakia, 2023.
- *Research internship*, Erasmus+ Mobility Program, Faculty of Mathematics and Computer Science, University of Science and Technology of Oran Mohamed-Boudiaf, Oran, Algeria, 2023.
- *Research internship*, IT makes S(ci)ENSE Program, French Embassy Serbia, French Institute in Serbia, ICube Laboratory, University of Strasbourg, Strasbourg, France, 2022.
- *Innovation and Smart Manufacturing*, EIT HEI Initiative, SMART-2M, Dublin City University, Ireland, University of Kragujevac, Serbia, (virtual), 2022.
- *Advanced Tools for Multidisciplinary Machine Learning and Big Data*, Erasmus+ Blended Intensive Program (BIP), Technical University of Liberec, Liberec, Czech Republic, 2022.
- *Research internship*, Erasmus+ Mobility Program, Institute of Electronics, Silesian University of Technology, Gliwice, Poland, 2022.
- *Practical Innovation & Entrepreneurship*, EIT HEI Initiative, SMART-2M, Dublin City University, Ireland, University of Kragujevac, Serbia, (virtual), 2022.
- *NVIDIA DLI Certificate – Fundamentals of Accelerated Computing with CUDA Python*, NVIDIA Deep Learning Institute, (virtual), 2022.
- *Application of Machine Learning in Solving Global Challenges in Water and Energy Sectors*, UNESCO WSDAC, University of Kragujevac, Kragujevac, Serbia, 2021.
- *Business Communications and Entrepreneurial Skills*, Business Innovation Center, University of Kragujevac, Kragujevac, Serbia, 2021.
- *Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences (TeComp)*, Erasmus+, Ghent University, Belgium, (virtual), 2021.
- *Business Mentoring, Lean Canvas, Design Thinking, Business Capacity Assessment*, Business Development Center Kragujevac, EU PRO, UNOPS, Kragujevac, Serbia, 2020.
- *Media Literacy*, United States Embassy in Serbia, IREX, Serbia, (virtual), 2020.
- *User Experience in IoT World*, Comtrade Edit Summer School, Kragujevac and Belgrade, Serbia, 2017.

## LANGUAGES

---

- Serbian (native)
- English (B2)
- Russian (A1)

## OTHER

---

- Member of *Mensa*, 2021 – .
- Coordinator of *Youth Mathematics Workshop*, 2018 – .
- Member of *AIESEC*, 2013 – 2015.
- Member of *Youth Mathematics Workshop*, 2003 – 2009.