Slavko Kovačević

Teaching and Research Assistant

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Education

University of Montenegro
Doctor of Philosophy, PhD - Computer Science

Podgorica, Montenegro
November 2021 - PRESENT

University of Montenegro
Master of Computer Science

Podgorica, Montenegro
October 2019 - October 2021

University of Montenegro
Specialist of Computer Science

Podgorica, Montenegro
October 2018 - September 2019

University of Montenegro
Bachelor of Electronics, Telecommunications and Computers

Podgorica, Montenegro
September 2015 - July 2018

Experience

DeepMark
CEO & Co-Founder

Montenegro
December 2023 - PRESENT

Faculty of Eletrical Engineering, University of Montenegro
Teaching and Research Assistant

Podgorica, Montenegro
October 2021 - PRESENT

Ridgemax Solutions
Android Development Advisor

Podgorica, Montenegro
March 2022 - August 2022

Fleka
Android Developer

Podgorica, Montenegro
June 2020 - October 2021

RobotCode
Android Developer

Podgorica, Montenegro
January 2020 - October 2020

Omnitech MNE
Machine Learning Researcher

Podgorica, Montenegro
December 2018 - April 2020

InfoStream ltd
Oracle PL/SQL Developer (Volunteer)

Podgorica, Montenegro
July 2018 - October 2018

Projects

Machine Learning Course
Teaching Assistant

Podgorica, Montenegro
August 2019 - October 2019

- Took part in organizing first Montenegrin ML course that had 16 attendees and consisted of 8 weeks of lecture
- Prepared lectures, homework, assignments and did a bit of teaching

BonsAPPs H2020: AI-as-a-Service for the Deep Edge

Deep Learning Engineer   *February 2022 - July 2022*

- Was assigned tasks such as model optimization, quantization, knowledge distillation, hyperparameter optimization, neural architecture search, and so on
- Maintenance and utilization of embedded systems as well as high-performance computing systems

Bixbit Spellchecker   *Podgorica, Montenegro*

Artificial Intelligence Engineer   *June 2022 - PRESENT*

- Developing state-of-the-art spellchecking AI solution for the Serbian language

Plate recognition system   *Podgorica, Montenegro*

Deep Learning Engineer, Project Manager   *January 2023 - June 2023*

- Developing state-of-the-art vehicle registration plates detection and recognition
- Project is funded by the Innovation Fund of Montenegro

Extracurricular activity

Student's representative

University of Montenegro   *September 2015 - September 2020*

- Was elected to represent the class of 2015/16 of the University of Montenegro, Faculty of Electrical Engineering and since then reelected every year
- Founded the first digital library for students of electrical engineering in Montenegro that now consists of more than 3 thousand books, notes, files, and other useful material for studying

Publications

[1] Mirko Kalezić, Petar Sekulić, and Slavko Kovačević. Video object segmentation using optical flow and recurrent neural networks. In *2020 9th Mediterranean Conference on Embedded Computing (MECO)*, pages 1–4. IEEE, 2020.

[2] Petar Sekulić, Paola Regina, Luana Spadafina, Giuseppe Dentamaro, Alessandro Porcelli, Cristiano Bove, Slavko Kovačević, and Mirko Kalezić. Real-time flood prediction using recurrent neural networks and random forest. In *Proceedings of 24th Imeko TC-4 International Symposium*, 2020.

[3] Kosta Pavlović, Slavko Kovačević, and Igor Djurović. Speech watermarking using deep neural networks. In *Proceedings of 28th Telecommunications Forum (TELFOR)*, pages 292–295. IEEE, 2020.

[4] Slavko Kovačević. Watermark embedding usind deep neural networks. Master's thesis, University of Montenegro, oct 2021.

[5] Kosta Pavlović, Slavko Kovačević, Igor Djurović, and Adam Wojciechowski. Robust speech watermarking by a jointly trained embedder and detector using a DNN. *Digital Signal Processing*, 122, apr 2022.

[6] Kosta Pavlović, Slavko Kovačević, Igor Djurović, and Adam Wojciechowski. DNN-based speech watermarking resistant to desynchronization attacks. *International Journal of Wavelets, Multiresolution and Information Processing*, mar 2023.

[7] Nikola Pižurica, Kosta Pavlović, Slavko Kovačević, and Igor Jovančević. Reducing the latency and size of a deep CNN model for surface defect detection in manufacturing. In *Sixteenth International Conference on Quality Control by Artificial Vision*, volume 12749, page 1274912. International Society for Optics and Photonics, SPIE, 2023.

[8] Slavko Kovačević, Kosta Pavlović, and Igor Djurović. A Novel DNN-based Image Watermarking Algorithm. Progress in Polish Artificial Intelligence Research 4, Edited by: Adam Wojciechowski and Piotr Lipiński/Lodz University of Technology Press, 2023.