Top Skills

Research and Development (R&D)
Wireless Communications Systems
Reinforcement Learning

Languages

angielski (Professional Working)

PhD student, Institute of Radiocommunications, Poznań University of technology, Senior R&D Engineer, Rimedo Labs
Poznań, Wielkopolskie, Poland

Summary

He received the M.Sc. degree (Hons.) in electronics and telecommunication from Poznań University of Technology, in 2019, where he is currently pursuing a Ph.D. degree with the Institute of Radiocommunications. He is gaining scientific experience by being involved in both national and international research projects. His research interests include the utilization of machine learning and location-dependent information for the purpose of network management. His scientific works are already published in well-recognized international journals like IEEE Transactions on Intelligent Transportation Systems, IEEE Access. Since May 2021 he is involved in working on projects for RIMEDO Labs as an R&D Engineer.

Experience

Rimedo Labs
3 years 4 months

Senior Research And Development Engineer
July 2023 - Present (1 year 2 months)
Poznań, Wielkopolskie, Poland

I am working on the development of Machine-Learning based algorithms oriented toward the management of 5G and beyond networks in the context of Open RAN architecture. Mainly I am focused on energy efficiency optimization in M-MIMO networks, but also on the beam management and some security aspects.

R&D Engineer
May 2021 - July 2023 (2 years 3 months)
Poznań, Wielkopolskie, Poland

Between May and November 2021 I was working on the implementation of spectrum sharing standards for Citizen Broadband Radio Service in python language.

Since December 2021 I'm working on the project related to the Open Radio
Access Network concept

Institute of Radiocommunications PUT
Research & Didactic Assistant
March 2023 - Present (1 year 6 months)
Poznań, Wielkopolskie, Poland

Part-time job as Research and Didactic Assistant with the Institute of
Radiocommunications Poznan University of Technology. I am giving
classes mostly related to the simulation techniques of wireless systems and
programming.

My research work is focused on the utilization of Machine Learning techniques,
mainly Reinforcement Learning for the system-level optimization of M-MIMO
networks, e.g., improvement of energy and spectral efficiency.

Poznan Supercomputing and Networking Center
Programmer c++
May 2018 - September 2018 (5 months)
Poznań, woj. wielkopolskie, Polska

Programmer in the laboratory of new media. Development of some tools for
Immersive video player.

Zylia
Research Project
December 2017 - January 2018 (2 months)
Poznań, woj. wielkopolskie, Polska

Analysis of the MPEG group platform, proposed for evaluation of the six
degree of freedom (6DoF) audio. My duty was to run the platform with example
recordings, and check for issues.

Zylia
Research Development Software Engineer
July 2017 - September 2017 (3 months)
Poznań

Internship in the Research and development team. My task was named:
"Visualization of the spatial sound energy - VST plugin"

The aim of the Internship was to develop my programming skills and knowledge about processing of the spatial sound. I was developing a VST plugin visualizing spatial sound energy around the Zylia microphone array in real time.

Education

Politechnika Poznańska
Doctor of Philosophy - PhD, Technical IT and Telecommunications · (2019 - 2024)

Poznan University of Technology
Master of Science - MS, Electronics and Telecommunications · (2018 - 2019)

Poznan University of Technology
Bachelor of Science - BS, Electronics and Telecommunications · (2014 - 2018)