



Bernát Wiandt

Curriculum Vitae

Education

2012–2018 **Phd**, *Budapest University of Technology and Economics, Doctoral School of Informatics.*

2013– , *EIT Digital, ICT Doctoral School.*

2005–2012 **Bsc / Msc**, *Budapest University of Technology and Economics, Computer Engineer.*

Dissertation

title *Optimization of Self Organizing Computing Systems*

supervisor Vilmos Simon Phd

description Enabled the evolution of information dissemination protocols in a mobile ad hoc network. Designed a genetic programming language and a genetic programming framework. Designed new patrolling strategies for distributed coordination of agents on a graph to maximize scalability, enable physical separation and improve patrolling performance compared to the state of the art. Designed a strategy for a distributed decision problem, implemented control and measurement software for an experimental hardware, designed and implemented an experiment with real robots to analyse the designed distributed decision strategy.

Experience

2015– **Assistant lecturer**, *Budapest University of Technology and Economics.*

- Java-technology
 - Java as a technology, language basics
 - Standard library
 - Java8, effective java
 - Design patterns
- Laboratory on Multimedia Systems and Services 2
 - Multimedia streaming with WebRTC
- V2X Communication Technologies of Autonomous Vehicles
 - Network architectures for distributed systems
 - Collective motion

- Nov. 2016 – **Visiting researcher**, *IRIDIA Université Libre de Bruxelles*, Brussels, Belgium.
- Aug. 2017 Designed a strategy for a distributed decision problem, implemented control and measurement software for an experimental hardware, designed and implemented an experiment with real robots to analyse the designed distributed decision strategy.
- 2012 June – **Intern**, *Ericsson*, Budapest, Hungary.
- August Developed a project management support tool based on Wave in a Box and Apache Shindig technologies.
- 2006–2011 **Lab instructor**, *Budapest University of Technology and Economics*.
Instructed C/C++ and database technology lab exercises; corrected deliverables, updated course materials.

R&D projects

- iParking
 - Indoor localization
 - Indoor route planning
 - Parking space allocation
- Smart Parking
 - Time series analysis
 - Development of a distributed, scalable time series prediction application
- Digital Profiling
 - Time series classification
 - Motion recognition and classification
- AWARD
 - Optimization of storage space allocation in an existing warehouse based on historic order data

Programming languages

Java	6+ years
Python	4+ years
C/C++	1-2 years
PHP/JS	1-2 years
R	1-2 years

Languages

Hungarian	Native language
English	Full professional proficiency

Extra

- Driving license category B1