

Curriculum Vitae

Name Lőrinc MÁRTON

Place and date of birth Tirgu Mures, Romania, 11th June, 1976.

Workplaces

since 2019 – *full professor*, Sapientia Hungarian University of Transylvania, Romania

– *Deputy Head of Department* of Electrical Engineering

– *Study program supervisor* (Automation and Applied Informatics)

since 2017 – *PhD supervisor*, University of Pannonia, Doctoral School of Information Science and Technology, Hungary

Previous positions and workplaces

2012 – 2019 – *associate professor*, Sapientia Hungarian University of Transylvania, Romania

2010 – 2012 – *visiting researcher*, German Aerospace Center (DLR), Robotics and Mechatronics Center, Wessling, Germany

2003 – 2010 – *assistant professor*, Sapientia Hungarian University of Transylvania, Romania

1999 – 2000 – *electrical engineer* (research and development), AAGES Ltd, Romania

Education

2000 – 2003 – PhD Student, Budapest University of Technology and Economics, Doctoral School of Electrical Engineering

1994 – 2000 – BSc, MSc in Electrical Engineering, *Automation and Industrial Informatics*, Petru Maior University, Targu Mures, Romania

1990 – 1994 – Mathematics and physics, Bolyai Farkas theoretical high-school, Targu Mures, Romania

Teaching

Courses developed and taught

Control Engineering – BSc

Automation systems – BSc

Robot Control – BSc

Autonomous and Networked Control Systems – MSc

Computer Controlled Systems II – PhD (partly, University of Pannonia)

2007-2010 – Romanian coordinator of C&CofMARS (Control and Coordination of Multi-Agent Robotics Systems), European – Canadian *student mobility program*

Research interests control over networks, fault diagnosis, robot control, control theory

Most important research grants and contracts

2019 – 2023 – *Analysis and optimization of complex technological systems with energetic applications*, OTKA K131501, University of Pannonia, Hungary, position: senior researcher.

2020 – 2021 – *Ericsson BME 5G - Technology transfer project*, 2018-1.3.1-VKE-2018-00005, Budapest University of Technology and Economics, Hungary, position: senior researcher.

2017 – *SERENITI: Cyber security and resilience of networked critical infrastructures*, PCIG14 GA-2013-631128, FP7 Marie Curie Career Integration, Petru Maior University, Romania, position: senior researcher.

2012 – 2015 – *Reconfigurable Control of Robotic Systems Over Networks*, under grant No. UEFISCDI PN-II-RU-TE-2011-3-0005, position: research director

2014 – 2015 – *Sensor Fusion Methods for Autonomous Vehicle Control*, research contract - Hungarian National Research Center for Development and Market Introduction of Advanced Information and Communication Technologies TAMOP-4.2.2.C-11/1/KONV-2012-0004 (subproject I.6) position: subproject director

2008 – 2012 – *Advanced Control Theory and Artificial Intelligence Techniques of Autonomous Ground, Aerial, and Marine Robots*, supported by Hungarian National Research Program under grant No. OTKA K 71762, position: senior researcher

2003 – 2007 – *Research in the Advanced Control Theory and Navigation of Autonomous Robots and the Increase of the Intelligence*, supported by Hungarian National Research Program under grant No. OTKA T 42634, position: junior researcher

Scholarships, research visits

2016 – 2022 – visiting researcher, Institute for Computer Science and Control (SZTAKI), Hungary, Domus Hungarica Scholarship (1 month/year)

2016 – Alexander von Humboldt Scholarship for postdoctoral researchers – Alumni Program, Dept. of Automation and Computer Control, Ruhr University, Bochum, Germany (3 months)

2015 – visiting researcher, Dept. of Mechanical Engineering, McGill University, Canada

2014 – visiting researcher, Debrecen University, Hungary, Faculty of Informatics (1 month)

2010 – 2012 – postdoctoral scholarship, Alexander von Humboldt by Alexander von Humboldt Foundation, Wessling, Germany

2007 – 2010 – postdoctoral scholarship, Bolyai János postdoctoral scholarship by Hungarian Academy of Sciences

Awards

2008 – IEEE Industrial Electronics Society – Best Student Paper Award for 2006.
presented in Cambridge, U.K., July, 2008

2006 – Best Student Paper Award
IEEE 3rd International Conference on Mechatronics

2006 – Best Young Paper Award
3rd Hungarian-Romanian Joint Symposium on Applied Computational Intelligence

Membership in scientific communities

- Member of IEEE-IES (Industrial Electronics Society) Technical Committee on Control, Robotics, and Mechatronics
- Secretary of Committee on Automation and Computerization, Regional Committee in Cluj of Hungarian Academy of Sciences (MTA)
- External member of public body of Hungarian Academy of Sciences (MTA)

Languages

- Hungarian – mother tongue
- English – advanced level (write, read, communication)
- German – upper intermediate level (write, read, communication)
- Romanian – advanced level (write, read, communication)

Hobbies

- Transylvanian folk dance and music
- Hiking, cycling, swimming