

Positions and Affiliation

- Professor,
Dept. of Mechatronics, Optics and Applied Informatics, Budapest University of Technology and Economics (BUTE) <http://www.mogi.bme.hu/> (since **2009**)

Former workplaces

- **2008 – 2011** Part time job Cognitive Informatics research group involved in the System and Control Laboratory, Computer and Automation Research Institute of the Hungarian Academy of Sciences *Position: Scientific Advisor*
- **1997 - 2009** Budapest University of Technology and Economics Department of Automation and Applied Informatics *Position: associate professor*
- **1995 - 1997** Technical University of Budapest *Position: senior lecturer*
- **1993 - 1995** The University of Tokyo *Position: visiting researcher*
- **1986 - 1993** Technical University of Budapest *Position: assistant professor*
- **1984 - 1986** Ganz Watt-hourmeter Factory *Position: R&D engineer*

Studies and Degrees

Doctor of Hungarian Academy of Sciences (D.Sc.), **2008**
Ph.D., Technical University of Budapest, **1996**
Technical University of Budapest, Electrical Engineering, Dipl. Ing. **1984**

Teaching activities

Courses include undergraduate, graduate and Ph.D. courses in Basic electrical engineering, Motion control and power electronics, Robot control. Development of e-learning materials: Animated multimedia text book on Motion Control; Remote laboratory test of basic elements of robotics

Research fields

Sliding Mode Control: Sliding mode based feedback compensation (friction compensation), Tensor Product model transformation based sliding surface design.
Cognitive robotics and telemanipulation: Super flexible robot programming, Ethologically inspired models for the social relationship between humans and intelligent systems.

Awards and Honours

- Keynote presentation at IFAC SYROCO **2015**
- Best Late-Breaking Report at IEEE Human-Robot Interaction Conference Portland **2015**
- Keynote presentation at IEEE-ICCC **2014**
- Best Paper in Biomimetics Finalist at IEEE ROBIO **2010**
- Bolyai-plaquette of Hungarian Academy Science **2009**
- Best Paper Award, IEEE Conference on Human System Interaction **2008**
- Master Teacher Gold Medal Award **2007**
- Student Research Activity Supervisor Medal (BUTE) **2006**
- Bolyai János research scholarship **2005-2007**
- Széchenyi István scholarship **2001-2004**
- Bolyai János research scholarship **1998-2000**
- ABB Prize Paper Award, IEEE OPTIM2000 Conference **2000**
- Intergovernmental research scholarship at Tokyo University **1993-1995**
- “For Hungarian Science” charity one year scholarship **1991**

Publications

Author or co-author of **13** book chapters, university notes, **71** Hungarian and foreign journal papers, **167** conference papers (including **6 Keynote lectures**), **12** R&D studies; held **35** presentations at foreign universities and institutes; **1035** independent citations to his work.

Full list of publication: <http://mycite.omikk.bme.hu/search/slist.php?lang=0&AuthorID=10000574>

Service / Memberships

- IEEE IES AdCom member **from 2016 to 2018**
- Hungarian Academy of Science, Chair of the Scientific Committee on Electrical Engineering **from 2016 to 2018**
- IFAC, Chair of the Technical Committee 4.3 – Robotics **from 2011 to 2017 re-elected in 2014.**
- Chair of IEEE IES- Technical Committee on Control, Robotics & Mechatronics **from 2011 to 2015 re-elected in 2013.**
- General Chair of ASME/IEEE Advanced Intelligent Mechatronics Conference **2011**
- General Co-Chair of ASME/IEEE Advanced Intelligent Mechatronics Conference **2010**
- Founding member of iSpace Network (World wide network of research groups dealing with intelligent space <http://www.ispace-labnet.org/>) **from 2008**
- Co-Chair of the IEEE IES-Computational Intelligence Subcommittee **from 2007 to 2011**
- Local Co-chair of the 5th International Conference on Control & Automation, **2005**
- Founding member of Hungarian section of IEEE Industry Application Society, later voted vice chairman. The section won **IEEE Industry Applications Society's 2005 Outstanding Small Chapter award in 2005. from 2004 to 2011**
- Founding member of ITM Norwegian-Hungarian Joint Laboratory. (<http://www.itm-lab.org/>) **from 2004**
- Founding member of Integrated Intelligent Systems Japanese-Hungarian Joint Laboratory (<http://www.iisl-lab.org/>) **from 2001**
- Founding member of the **PEMC International Council** (PEMC IC) committee that gathers Power Electronics and Motion Control professionals from the area of Central Europe and coordinates conferences, which later merged in **1998** into the (European Power Electronics and Drive Association (EPE) and continues to work as a relatively independent chapter. (<http://epe-pemc.get.bme.hu/>) **from 1996**