

Prof. László Monostori



Personal

Born: January 16, 1953, Budapest, Hungary
Marital status: married, 3 children

Education, scientific degrees

Foreign Member of the Academy by the Class of Technical Sciences of the Royal Flemish Academy of Belgium for Science and the Arts (KVAB), 2011
Corresponding Member, Hungarian Academy of Sciences, Budapest, 2010
Member, Hungarian Academy of Engineering, 2009
D.Sc., Hungarian Academy of Sciences, Budapest, 2000
MBA, Budapest University of Economics in cooperation with London Business School, Budapest, 1996
Habilitation, Budapest University of Technology and Economics (BME), Faculty of Mechanical Eng., 1995
C.Sc. in Technical Sciences, Hungarian Academy of Sciences, Budapest, 1986
University doctoral degree in Information Theory, BME, Faculty of Electrical Engineering, 1979
Special Engineering Diploma in R&D, BME, Faculty of Electrical Engineering, 1978
Diploma in Electrical Engineering, BME, Faculty of Electrical Engineering, 1976

Current positions

Senior Advisor Hungary of the Fraunhofer Society (2014-)
Director, Fraunhofer Project Center for Production Management and Informatics, Fraunhofer –SZTAKI, (2010-)
Deputy Director, Research, SZTAKI, Research Institute for Computer Science and Control, Hungarian Academy of Sciences (1995-)
Member, Scientific Board, SZTAKI (1996-)
Head of the Research Laboratory on Engineering and Management Intelligence, SZTAKI (2004-)
Full Professor, BME, Faculty of Mechanical Engineering, (2002-)

Fields of interest

Management of complexity, changes and disturbances in complex production structures, intelligent manufacturing processes and systems, holonic manufacturing, distributed production systems, digital factories, virtual enterprises, production networks, quality management, modelling and optimisation of production processes and process chains, production planning and control, machine learning techniques, ANNs, hybrid AI techniques and their applications

Awards

Recipient of Outstanding Service Award, International Federation of Automatic Control (IFAC), (2011)
Recipient of Professor Honoris Causae Universitatis Miskolcensis (2011)
Recipient of the Civil Decoration of the Knight's Cross Order of Merit of The Republic of Hungary (2010)
Recipient of Professor Honoris Causae Facultatis Mechanicae Universitatis Miskolcensis (2009)
Recipient of the Otto Benedikt Prize (2007)
Recipient of the Dennis Gabor Prize (2004)
Recipient of the Széchenyi Professor Scholarship (1998-2001)
Recipient of the SZTAKI Award for outstanding research results eleven times (1980 – 2003)
Recipient of the SZTAKI Award for the best Ph.D. supervisor (1998, 2000, 2004)
Recipient of the scholarship of the Alexander von Humboldt Foundation, Germany (Paderborn, 1990 –1992)
Recipient of the DAAD scholarship, Germany (Aachen, 1983 –1984)

Awards given to his students

Ph.D. Award of the SZTAKI: 10 times
Junior Award of the Hungarian Academy of Sciences: Csaba Egresits (1997), Zsolt Viharos (2000), Botond Kádár (2003), Balázs Csáji (2009)

Boards, committees

CIRP Annals – Manufacturing Technology, Elsevier: Chairman of the Edit. Comm. (2005-09), Member (2003-2005)
CIRP Journal on Manufacturing Science and Technology, Elsevier: Founding Editor-in-Chief (2007-)
CIRP Journal of Manufacturing Systems: Associate Editor (2004-2008)
Computers in Industry, Elsevier: Associate Editor (2003-), Member of the Editorial Board (1998-)
IEEE Transactions on Automation Science and Engineering (T-ASE), IEEE: Associate Editor (2003-2007)
Measurement, Elsevier, Associate Editor (2007-)
Int. Journal for Manufacturing Science & Production, Freund Publishing House Ltd., Member of the EB (2003-)
Journal of Machine Manufacturing, Scientific Society of Mechanical Engineering, Budapest, Hungary, Honorary Chairman of the Editorial Board (2008-)
Periodica Polytechnica, Budapest University of Technology and Economics, Member of the EB (2010-)
Production Engineering and Computer, Belgrade: Member of the Editorial Board (1996-)

Metrology and Measurement Systems, Polish Academy of Sciences, Member of the Editorial Board (2008-)
Int. Journal of Simulation Modelling (IJSIM), DAAAM International Vienna, Member of the Editorial Board (2002-)
Academic Journal of Manufacturing Engineering, Editura Politehnica, "Politehnica" University of Timisoara, Romania,
Member of the Editorial Board (2008-)
Applied Intelligence: The International Journal of Artificial Intelligence, Neural Networks, and Complex Problem-
Solving Technologies, Kluwer Academic Publishers, Member of the Review Board (2006-)

International Academy for Production Engineering (CIRP): President (2013/14)
International Academy for Production Engineering (CIRP): Member of the Council (2008-)
International Academy for Production Engineering (CIRP): Fellow (1998-), Corresponding Member (1994-)
International Academy for Production Engineering (CIRP), Scientific Technical Committee (STC) on Optimisation
of Manufacturing Systems (from 2007: Production Systems and Organisations): Chairman (2004-2007),
Vice-Chairman (2001-2004), Secretary (1998-2001)
International Federation of Automatic Control (IFAC), Coordination Committee (CC) on Manufacturing and Logistics
Systems: Chairman (2008-)
International Federation of Automatic Control (IFAC), Technical Committee (TC) on Manufacturing Modelling,
Management & Control: Chairman (2002-2008), Member (1994-)
International Federation of Automatic Control (IFAC), TC on Manufacturing Plant Control: (1994-)
European Academy on Industrial Management (AIM): Member (2004-)
International Society of Applied Intelligence (ISAI): former Vice President, Member (1998-)
Int. Meas. Conf. (IMEKO). Techn. Comm. on Technical Diagnostics (TC10): Chairman (2005-2012), Member (1989-)
Institute of Electrical and Electronics Engineers (IEEE), Computer Society, Member (1998-2000)
European Research Consortium for Informatics and Mathematics (ERCIM): Executive Committee, Member (1996-)
Virtual Research Lab. on Knowledge Community in Production (VRL KCIp): Directory Board, Member (2005-2008)
European Manufacturing and Innovation Research Association (EMIRAcle): Directory Board, Member (2007-)
Engineering and Technological Sciences (ENGITECH) Scientific Committee of Science Europe: Member (2013-)
Horizon 2020 Advisory Group for "Leadership in Enabling and Industrial Technologies, Nanotechnologies,
Advanced Materials and Advanced Manufacturing and Processing (LEIT-NMP)": Member (2013-)

Hungarian Academy of Sciences, Council of Research Institutions: Member (1998-2004)
Hungarian Academy of Sciences, General Assembly: Elected D.Sc. Member (2004-2009)
Hungarian Academy of Sciences, Computer and Automation Committee: Member (1999-)
Hungarian Academy of Sciences, Informatics Committee: Member (1999-2002, 2005-2007)
Hungarian Academy of Sciences, Material Science and Technology Committee: Member (2011-)
National Science Foundation, Hungary (OTKA), Scientific College, Techn. and Natural Sciences: Member: (2010-)
National Science Foundation, Hungary (OTKA), Committee of Mechanical Engineering: (1995-1998; 2005-)
National Science Foundation, Hungary (OTKA), Committee of Electronics: (1998-2001)
Univ. of Tokyo, Ext. Eval. Comm. of the Research into Artifacts, Center for Engineering (RACE): Member (2011-)
Univ. of Minho, Portugal, Centre for Industrial Technology and Management, Ext. Adv. Board: Member (2010-)
Budapest Univ. of Technology and Economics (BME), Council of the Fac. of Mech. Eng.: Member (1998-2007)
Budapest Univ. of Techn. and Econom. (BME), Fac. of Mech. Eng., Habilitation & Ph.D. Comm.: Member (1997-)
Budapest Univ. of Techn. and Econom. (BME), Fac. of Electrical Engineering and Informatics, Division of
Electrical Engineering, Habilitation & Ph.D. Comm.: Member (2006-)
Budapest Univ. of Techn. and Econom. (BME), Fac. of Electrical Engineering and Informatics, Division of
Informatics, Habilitation & Ph.D. Comm.: Member (2006-)
Budapest Univ. of Techn. and Econom. (BME), Fac. of Mech. Eng., Doctoral School on Mechanical Sciences:
Founding Member (2000-)
University of Miskolc, Hungary, József Hatvany Doctoral School on Inf. Sciences, Council Member (2000-2004)
University of Miskolc, Hungary, Habilitation Council on Technical and Natural Sciences, Member (2012-2015)
University Pannonia, Veszprém, Hungary, Doctoral School on Information Sciences: Invited Member (2000-)

Member of the org. comm. of more than 200 international conferences, Chairman of 16 international conferences.

Language skills

Mother tongue: Hungarian; high-level English, German, medium level Russian, low level Italian.

Publications, seminars

Author or co-author of more than 390 publications mostly in refereed journals, books or conference proceedings.
Known, independent citations: over 2400. Seminars held at foreign universities and research centres (among other
places): University of California Berkeley, MIT, University Minnesota, TH Aachen, University of Paderborn, Inria,
CSIRO Melbourne, Hitachi Production Engineering Research Laboratory, Japan, University of Windsor, Canada.

Contact

Office: H-1111 Kende utca 13-17, Budapest, Hungary
Phone: (+36 1) 2796 159, Fax: (+36 1) 4667 503, E-mail: laszlo.monostori@sztaki.mta.hu
Web-page: <http://www.sztaki.mta.hu>; <http://www.emi.sztaki.hu/monostori>

Budapest, June 24, 2014.