



## Complete bio, Gábor Stépan

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### Particulars:

Name: Stépan, Gábor  
 Place of Birth: Budapest  
 Date of Birth: December 13, 1953  
 Workplace: Faculty of Mechanical Engineering, Department of Applied Mechanics,  
 Budapest University of Technology and Economics (BME)  
 (former Technical University of Budapest)  
 Work address: Muegyetem rkp 3, Budapest H-1111 Hungary  
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 E-mail: [stepan\(at\)mm\(dot\)bme\(dot\)hu](mailto:stepan(at)mm(dot)bme(dot)hu)  
 Home Page: <http://www.mm.bme.hu/~stepan/>  
 Nationality: Hungarian

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### Degrees:

1982 PhD in Mechanical Engineering (degree no.: 9454/82)  
 Hungarian Academy of Sciences (HAS)  
 1978 MSc in Mechanical Engineering (degree no.: 194/1978)  
 Technical University of Budapest

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### Qualifications:

2007 Full member of Hungarian Academy of Sciences  
 2001 Corresponding member of Hungarian Academy of Sciences  
 1995 Dr.habil. in Mechanical Engineering (degree no.: H-66/1995)  
 Technical University of Budapest  
 1994 DSc in Mechanical Engineering (degree no.: 3323/94)  
 Hungarian Academy of Sciences

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### Languages:

English advanced level state exam no.: A'052809/1990 (lecturing)  
 Russian intermediate PhD exam, 1982 (reading)  
 German elementary speaking, reading

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### Honours and Awards:

2012 \_\_\_\_\_ Associate member of CIRP (International Academy for Production Engineering)  
 2011 \_\_\_\_\_ Szechenyi Prize (Hungarian Republic)  
 2008 \_\_\_\_\_ Muttnyanszky Prize (Faculty of Mechanical Engineering, BME)  
 2007 \_\_\_\_\_ Simonyi Engineering Prize (Charles Simonyi Fund for the Arts and Sciences)  
 2012 and \_\_\_\_\_ Most Popular Lecturer Award of mechanical engineering students  
 2005-2009 \_\_\_\_\_ (in 6 different years)  
 2003 \_\_\_\_\_ Pro Scientia student supervisor award (Ministry of Education)  
 2002 \_\_\_\_\_ Pro Doctorandis award (National Organisation of PhD Students)  
 2001 \_\_\_\_\_ Pro Progressio award for supervising students' research  
 2001 \_\_\_\_\_ Professional Teacher award (Ministry of Education)  
 1997-2000 \_\_\_\_\_ Szechenyi Professors' Scholarship (Ministry of Education and Culture)

2004,1998	Rector's award for supervising students' research (BME)
'93,'91,'88	(in 5 different years)
1987	Research Award (Hungarian Academy of Sciences)
1986	Honorary Associate Professorship of BME
1978	Rényi Kató Award of Bolyai Society
1977	3rd prize at the International Mathematics Competition of Technical Universities (Russe, Bulgaria)
1975-1978	Distinguished scholarship of the Hungarian People's Republic
1972	15th in ranking at the National Mathematics Competition for High School Students

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**Positions and places of work:**

2008-2012	Dean of the Faculty of Mechanical Engineering Budapest University of Technology and Economics
2000-2016	Leader of HAS-BME Research Group on 'Dynamics of Machines and Vehicles' Hungarian Academy of Sciences
1995-	Professor of Applied Mechanics
1995-2013	Head of Department Department of Applied Mechanics Budapest University of Technology and Economics
1991-1995	Associate Professor, Department of Applied Mechanics Technical University of Budapest
1989-1991	Senior Research Associate, Research Group on Mechanics Hungarian Academy of Sciences
1988-1989	Research Fellow, University of Newcastle upon Tyne, UK
1981-1987	Research Associate, Research Group on Mechanics Hungarian Academy of Sciences
1980-1981	Design Engineer, Machine Tool Factory, Csepel Works
1978-1980	PhD student, Department of Applied Mechanics, Technical University Budapest
1976-1978	Research Assistant, Computer and Automation Research Institute Hungarian Academy of Sciences
1975-1976	Teaching Assistant, Department of Mathematics, Technical University of Budapest
1974-1975	Teaching Assistant, Department of Geometry, Technical University of Budapest
1972-1973	Military service with Hungarian Air Force (18 months)

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**Teaching activity:**
**BSc/MSc level:**

2009-	Lecturer of the new course Analytical Mechanics (in English) (prerequisite in Mechanical Engineering Modelling, MSc)
2007-	Lecturer of Dynamics (prerequisite in Mechanical Engineering, BSc)
2001-2008	Lecturer of the new course Dynamics of Machines (in English, prerequisite in Integrated Engineering)
1997-2010	Lecturer of the new course Machine Tool Vibrations (elective in production technology)
1996-2006	Lecturer of Kinematics and Dynamics (prerequisite in Mechanical Engineering)
1995-	Lecturer of Vibrations (prerequisite in Mechanical Engineering, BSc)
1995	Lecturer of Lagrangian Dynamics (CDS240c, Division of Engineering and Applied Sciences, California Institute of Technology)
1993-1994	Lecturer of the new course Dynamics of Computer Controlled Machines (elective in Machine Design)
1993-	Lecturer of Nonlinear Vibrations (elective in Engineering Physics, in Mathematical Engineering, prerequisite in Applied Mechanics)
1992-	Lecturer of Dynamics of Machines

- (elective in Machine Design, prerequisite in Applied Mechanics, BSc)
- 1991- \_\_\_\_\_ Lecturer of the graduate course Dynamics of Mechanical Systems
- 1990-1996 Lecturer of the new MSc course Advanced Applied Mechanics in English
- 1985- \_\_\_\_\_ Lecturer of Analytical Mechanics I,II  
(prerequisite in Mathematical engineering, elective in Applied mechanics)
- 1984-1987 Lecturer of the new BSc courses Mechanics I-IV in English
- 1983-1984 Participant and teacher of the new curriculum in Computer Science
- 1978-1990 Practice, laboratory work in all the subjects of Mechanics
- 1985-2009 Supervisor of 42 MSc thesis project works

**PhD level:**

- 2011 \_\_\_\_\_ Delay Equations with Engineering Applications, 5 lectures at International Winter School on Recent Trends in Nonlinear Science (Barcelona, Spain)
- 2009 \_\_\_\_\_ Oscillations in time-delay systems and applications, 5 lectures at International Summer School in Automatic Control of Grenoble (Grenoble, France)
- 2006 \_\_\_\_\_ How Delay Equations Arise in Engineering? 5 lectures at Summer School on Delay Differential Equations and Applications (Dobbiaco, Italy)
- 2006 \_\_\_\_\_ Delay induced vibrations in engineering, 5 lectures at Seminar of University of Udine (Udine, Italy)
- 2004 \_\_\_\_\_ Theory and Applications of Delay-Differential Equations in Modeling Turning, Drilling and Milling, 6 lectures at Nonlinear Dynamics and Chaos for High-Volume and Ultra-Precision Metal Cutting, D'Alambert Session, International Centre for Mechanical Sciences - CISM (Udine, Italy)
- 1994 \_\_\_\_\_ Equations of Motion of Non-Holonomic Systems, 6 lectures at PhD Seminar Series on Locomotion (California Institute of Technology)
- 1992- \_\_\_\_\_ Dynamics of Mechanical Systems (elective for PhD students in Mechanical, Civil and Transportation Engineering at BME)
- 1989- \_\_\_\_\_ Supervisor of 31 PhD students  
8 students received PhD at Budapest University of Technology  
6 students transferred to US universities and received PhD there
- 1983- \_\_\_\_\_ Reviewer of 33 PhD and DSc thesis works  
for 6 Hungarian institutions and for 4 foreign universities:  
Royal Institute of Technology, Stockholm (KTH)  
University of Bristol (UoB)  
Eindhoven University of Technology (EUT)  
University of British Columbia, Vancouver (UBC)

**Research areas:**

*Analytical mechanics:* stability theory, nonlinear vibrations, equations of motion

*Differential equations:* bifurcation theory, delay-differential equations, chaos

*Applications in mechanical engineering:* nonlinear dynamics of wheels, vibration and stability

issues of robots, force control, stabilization of unstable equilibria and motions, human balancing, machine tool vibrations, active nonlinear suspension systems, rehabilitation robotics

**Research appointments abroad:**

- 2008 \_\_\_\_\_ Visiting Professor, 1 month  
Institut des Systemes Intelligents et Robotique  
Universite Pierre et Marie Curie - Paris 6, France
- 1996 \_\_\_\_\_ Visiting Professor, 1 month  
British Scientific and Engineering Research Council  
Department of Engineering Mathematics, University of Bristol, UK
- 1994-1995 Visiting Associate and Lecturer, 10 months  
Fulbright scholarship  
Department of Mechanical Engineering

- 1993 \_\_\_\_\_ California Institute of Technology, Pasadena, U.S.A.  
Visiting Researcher, 1 month  
Research Fund of Delft University of Technology  
Engineering Mechanics Laboratory  
Delft University of Technology, The Netherlands
- 1992 \_\_\_\_\_ Visiting Researcher, 1 month  
Research Fund of Delft University of Technology  
Vehicle Research Laboratory  
Delft University of Technology, The Netherlands
- 1991 \_\_\_\_\_ Visiting Researcher, 4 months  
Danish Scientific Research Fund  
Laboratory of Applied Mathematics and Physics  
Technical University of Denmark, Lyngby, Denmark
- 1988-1989 Research Associate, 18 months  
Science and Engineering Research Council & NEI Parsons  
Department of Mechanical Engineering  
University of Newcastle upon Tyne, UK

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**Research projects:**

**International:** (PI, co-PI and/or leader of the Hungarian group in the program)

- 2011-2013 FP7-NMP-ICT-Fof-260073 'Dynxperts' (EU FP7 leader of Hungarian group, project leader: JP Bilbatua, IDEKO Spain  
partners: FIDIA Italy, CNRS Nice France, RWTH-Aachen Germany)
- 2010-2012 TET\_08\_SG\_STAR 'COSMOSYS' (Hungarian-Singaporean project)  
Cognitive Stroke Movement Therapy Systems through Integration of  
Wearable Haptic Interfaces, co-PI with Prof I-Ming Nanyang University
- 2008-2012 EU-US-2008-1767/001-001 CPT USMOBI (Atlantis, Excellence in Higher  
Education Exchange, co-PI with Prof Enikov, Arizona,  
partners: University of Arizona, University of New Mexico, Technical  
University of Bratislava)
- 2007-2009 FP6-IST-2006-045530 'Autonomous Collaborative Robots to Swing and Work  
in Everyday EnviRonment - ACROBOTER' (EU FP6 Principal Investigator,  
partners: Department of Production Technology BME, Lund University,  
Fraunhofer IPK Germany, Democritus University of Thrace Greece,  
ROBOSOFT SA France, University of Reading England, ROBOTNIC Spain)
- 2007-2008 SPA 05/2006 'Dynamic investigation of high-speed milling processes'  
with Department of Mechatronics and Precision Engineering,  
Tekniker Foundation  
(Spanish-Hungarian Joint Fund for Research in Technology)
- 2004-2006 CAN 01/2003 'Control of Mechanical Systems'  
with Department of Mechanical Engineering, McGill University  
(Canadian-Hungarian Joint Fund for Research in Technology)
- 2003-2012 EU Erasmus student exchange program with University of Karlsruhe
- 2001-2002 SLO 20/2000 'Nonlinear and Stochastic Dynamics of Cutting Processes'  
with Laboratory of Technical Physics, University of Ljubljana  
(Slovenian-Hungarian Joint Fund for Research in Technology)
- 2000-2003 EU 5 IST-1999-13109 'Supporting Rehabilitation of Disabled  
Using Industrial Robots for Upper Limb Motion Therapy'  
(EU FP5, REHAROB project  
project leader: Prof. G. Arz, Department of Production Technology BME,  
partners: University of Wales at Cardiff, University of Rousse,  
Zebris Medizintechnik GmbH, Hungarian Medical Rehabilitation Institute)
- 2000-2012 EU Erasmus student exchange program with Bristol University
- 1999 \_\_\_\_\_ 'PhD student exchange program'  
with Department of Mechanical Engineering, Michigan State University  
(TeT US-Hungarian Joint Fund for Technology)
- 1998-2001 COST P4 Action Group on 'Nonlinear dynamics in mechanical processing'  
PI of Working Group 2  
(European Commission COST Action, Chairman: I. Grabec, Slovenia)
- 1997-1999 GR 22/96 'Design Methods of Vehicle Suspension Systems'

- with Mechanical Engineering Department, Aristotle University of Thessaloniki  
(TeT Hungarian-Greek Joint Fund for Technology)
- 1997-1999 PH 2.04-194 Seismic Assessment and Qualification in NPP  
(subtask in the PHARE project led by  
Westinghouse Energy Systems Europe)
- 1994-1997 MAKÁ J.F.No.336 'Machine Dynamics and Control'  
with Department of Mechanical Engineering, Auburn University  
(TeT US-Hungarian Joint Fund for Technology)
- National:** (principal investigator or leader of the departmental research group)
- 2007-2011 Vibration reduction of machines via constraining forces (OTKA K68910)
- 2005-2011 V2.3.3-1 'Development of Units for New Nuclear Energy Technologies'  
(NKTH NAP project led by Dr. Sandor Zoletnik KFKI-RMKI,  
partners: KFKI-AEKI, Intitute of nuclear Techniques BME, FZK Karlsruhe,  
linked to the EU ITER fusion reactor project)
- 2003-2006 Stability and nonlinear vibrations of coupled discrete and continuous  
dynamical systems (OTKA T043368)
- 2001 \_\_\_\_\_ Development of multichannel dynamic measurement system  
(Infrastructure Program of Hungarian Scientific Research Fund)
- 1999-2003 OTKA T030762 Dynamic contact problems  
(Hungarian Scientific Research Fund)
- 1998-1999 PFP 2702/98 Computer aided vibration measurement  
(Ministry of Education and Culture)
- 1998 \_\_\_\_\_ Multichannel dynamic measurement system  
(Infrastructure Program of Hungarian Scientific Research Fund)
- 1997-2000 FKFP 0380/97 Nonlinear vibration theory for machine design  
(Ministry of Education and Culture)
- 1997 \_\_\_\_\_ PFP 3390/97 Computer aided measurement laboratory  
(Ministry of Education and Culture)
- 1995-1998 OTKA T017622 Nonlinear vibrations of machines  
(Hungarian Scientific Research Fund)
- 1995-1996 FEFA Nonlinear dynamics educational network  
(joint project with the Institute of Physics)
- 1991-1995 OTKA 732 (5-328) Dynamics of computer controlled machines  
(Hungarian Scientific Research Fund)
- 1988-1991 OTKA 1114 (5-207) Nonlinear dynamic systems  
(Hungarian Scientific Research Fund)
- Industrial:** (principal investigator)
- 2011 \_\_\_\_\_ Vibration elimination of strollers (undisclosed EU company)
- 2009 \_\_\_\_\_ Checking the flywheel of main pump (Paks Nuclear Power Station)
- 2004 \_\_\_\_\_ Vibration analysis of servo steering (Knorr-Bremse)
- 2004 \_\_\_\_\_ Wind induced oscillations of plates (BME Dept. of Fluid Mechanics)
- 2003 \_\_\_\_\_ Force sensor calibration for car steering bar (Thyssen Krupp Prod. Systems)
- 2002 \_\_\_\_\_ Free and forced vibrations of heat exchanger piping (IFT Hungary)
- 2001-2003 Dynamics of brake systems (Knorr-Bremse)
- 2000 \_\_\_\_\_ Vibration analysis of the windscreen wiper motor (Bakony Works)
- 2000 \_\_\_\_\_ Vibration measurements at 2 MW turbogenerator (Dorog Power Station)
- 2000 \_\_\_\_\_ Vibration analysis of the switchboard room (WESTEL)
- 1999 \_\_\_\_\_ Dynamics of punching bags (Intersoft)
- 1998 \_\_\_\_\_ Vibration analysis of the switchboard room (Pannon GSM)
- 1997 \_\_\_\_\_ Dynamic analysis of 400 kJ hammer fracture (RÁBA)
- 1993 \_\_\_\_\_ Vibration analysis of 215 MW Láng-BBC turbogenerators  
(Százhalombatta Power Station)
- 1986 \_\_\_\_\_ Vibration measurements in coal sorters (Tatabánya Coal Mines)
- 1982 \_\_\_\_\_ Regenerative vibrations of CriDan machine tool (Csepel Works)
- 1981-1987 Joint consultancy projects with Departments of Production Technology,  
Fluid Mechanics, and Textile Technology
- 1981 \_\_\_\_\_ Checking of 28 mm built-in cable end (Crane Rental Company)

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**Activities in scientific and/or higher educational organizations:**

**Journals:**

- 2007- \_\_\_\_\_ Member, Editorial Board, Physica D  
 2006- \_\_\_\_\_ Associate Editor, Mechanism and Machine Theory  
 2005-2010 Member, Editorial Board, Philosophical Transactions of the Royal Society  
 (established in 1665, A: Mathematics, Physical and Engineering Sciences)  
 2000- \_\_\_\_\_ Member, Editorial Board, Journal of Computational and Applied Mechanics  
 1998- \_\_\_\_\_ Member, Editorial Board, Meccanica  
 1995- \_\_\_\_\_ Member, Editorial Board, Journal of Nonlinear Science  
 1994- \_\_\_\_\_ Member, Editorial Board, Journal of Vibration and Control  
 1993-1994 Chief Editor, Periodica Polytechnica  
 1992- \_\_\_\_\_ Member, Editorial Board in Mechanical Engineering, Periodica Polytechnica

**Conferences:**

- 2011-2012 Organiser of the Pre-Nominated Session on Mechanics of Material Processing  
 at the 23rd International Congress of Theoretical and Applied Mechanics  
 (Beijing, China, August 19-24, 2012) (FSM9)  
 2009-2010 Chairman of IUTAM Symposium on Dynamics Modeling and Interaction  
 Control in Virtual and Real Environments (Budapest, June 07-11, 2010)  
 2008-2009 Proposer and organiser of the BIRS Workshop on Noise, time delays  
 and balance control (Banff, Canada, Nov 08-13, 2009)  
 2007-2008 Organiser of the Pre-Nominated Session on Mechanics of Material Processing  
 at the 22nd International Congress of Theoretical and Applied Mechanics  
 (Adelaide, Australia, August 24-30, 2008) (FSM6)  
 2004-2006 Chairman of the European Solid Mechanics Conference (ESMC)  
 (Budapest, Aug 28 – Sept 01, 2006)  
 2003-2005 Member of the International Scientific Committee  
 IUTAM Symposium on Vibration Control of Nonlinear Mechanisms and  
 Structures (Munich, 2005)  
 2003-2004 Member of the International Program Committee  
 37th CIRP International Seminar on Manufacturing Systems  
 (Budapest, 2004)  
 2002-2003 Chairman of the Ninth Hungarian Conference on Mechanics  
 IX. MAMEK (Miskolc, 2003)  
 2002-2003 Member of the International Scientific Committee  
 IUTAM Symposium on Chaotic Dynamics and Control of Systems and  
 Processes in Mechanics (Roma, 2003)  
 2001-2002 Member of the International Advisory Committee  
 5th International Conference on Vibration Engineering  
 (Nanjing, China, 2002)  
 2001 \_\_\_\_\_ International Representative of the Advisory Board  
 ASME International Design Engineering Technical Conferences  
 (Pittsburgh, 2001)  
 2000-2001 Co-organiser of the Symposium on  
 Nonlinear Dynamics and Control of Engineering Systems at the  
 18th Biennial Conference on Mechanical Vibration and Noise  
 (Pittsburgh, 2001)  
 2001 \_\_\_\_\_ Chairman of the COST P4 Workshop on Dynamics and Control of  
 Material Processing (Budapest, 2001), Co-Editor of the Proceedings  
 2000-2001 Chairman of the 3rd Finno-Ugric Days of Mechanics (Ráckeve, 2001)  
 2000-2001 Chairman of the National Student Research Conference on  
 Technology (Budapest, 2001)  
 2000 \_\_\_\_\_ Member of the International Program Committee  
 2nd International Symposium on Impact and Friction of Solids,  
 Structures and Intelligent Machines (Montreal, 2000)  
 2000 \_\_\_\_\_ Member of the Scientific Committee of the Eighth International  
 Conference on Theory of Machines and Mechanisms (Liberec, 2000)  
 1998-1999 International Representative of the Advisory Board  
 ASME International Design Engineering Technical Conferences  
 (Las Vegas, 1999)  
 1999 \_\_\_\_\_ Chairman of the COST P4 Workshop on Dynamics and Control of  
 Material Processing (Budapest, 1999), Co-Editor of the Proceedings  
 1998-1999 Chairman of the Eighth Hungarian Conference on Mechanics

- VIII. MAMEK (Miskolc, 1999)
- 1997-1998 Co-Chairman of the 2nd Finno-Ugric Days of Mechanics (Ráckeve, 1998)
- 1997-1998 Member of the Organizing Committee  
Numerical Methods and Computational Mechanics (Miskolc, 1998)
- 1995-1997 Member of the Scientific Committee  
IUTAM Symposium on Nonlinear and Chaotic Dynamics (Ithaca NY, 1997)
- 1995-1997 Member of the Scientific Committee  
IAVSD Symposium on Dynamics of Vehicles (Budapest, 1997)
- 1986-1987 Member of the Organizing Committee,  
XI. International Conference on Nonlinear Oscillations  
(Budapest, 1987), Co-Editor of the Proceedings

**Societies and Committees** (international):

- 2012-\_\_\_\_\_ Member representing Hungary, General Assembly of the International Union of  
Theoretical and Applied Mechanics
- 2010-2013 Elected Member, Congress Committee of the International Union of Theoretical  
and Applied Mechanics
- 2007-2013 Member, Symposium Panel for Solid Mechanics, International Union of Theoretical  
and Applied Mechanics
- 2004-2009 Member, European Solid Mechanics Conference Committee
- 2004-2006 Founder and first Chairman, Hungarian Biomechanics Society
- 2003 \_\_\_\_\_ Member, Review Committee of Mechanics Research in Estonia,  
Estonian Higher Education Accreditation Centre
- 2001-2014 Member, Scientific Council of International Centre for Mechanical Sciences,  
CISM, Udine, Italy
- 2000-2005 Member, European Nonlinear Oscillations Conference Committee
- 2002-2006 Chairman, Technical Committee on Nonlinear Oscillations of IFToMM
- 1995-2003 Elected Member, Executive Council of IFToMM,  
International Federation on Theory of Machines and Mechanisms
- 1998-2001 Chairman, Permanent Committee on Conferencies of IFToMM
- 1992-2011 Member, SIAM (Society of Industrial and Applied Mathematics, USA)
- 1990-\_\_\_\_\_ Member, GaMM (Gesellschaft für angewandte Mathematik und Mechanik,  
Germany)

**Societies and Committees** (national):

- 2011-2014 Chairman, Section of Engineering Sciences of the  
Hungarian Academy of Sciences
- 2006-\_\_\_\_\_ Member of the Hungarian Academy of Engineering
- 2005-2011 Vice Chairman, Section of Engineering Sciences of the  
Hungarian Academy of Sciences
- 2001-2007 Member, Doctoral Committee  
Hungarian Academy of Sciences
- 2000-2005 Chairman, Machine Structures Committee of the  
Hungarian Academy of Sciences
- 1998-2001 Member, Mechanical Engineering Subcommittee of the  
Hungarian Scientific Research Fund
- 1998-2000 Member, Natural Sciences Committee of the  
Hungarian Scientific Research Fund
- 1997-2000 Member, Engineering I Committee, of the  
Higher Education Research Program (FKFP)
- 1993-2005 Member, Machine Structures Committee of the  
Hungarian Academy of Sciences
- 1993-2000 Member, Scientific Qualification Subcommittee of Mechanical Engineering,  
Doctoral Council of the Hungarian Academy of Sciences
- 1992-2002 Member, National Committees of IFToMM and GaMM
- 1992-1993 Participant, Tempus project committee, Technical University of Budapest
- 1991-2011 Secretary, Hungarian National Committee of IUTAM  
(International Union of Theoretical and Applied Mechanics)
- 1985-2014 Member, Committee on Theoretical and Applied Mechanics,  
Hungarian Academy of Sciences
- 1986-\_\_\_\_\_ Member, Bolyai Mathematics Society
- 1983-1988 Member, Vibration and Noise Committee of Association on

Mechanical Engineering Science (GTE)

**Committees and Councils** (university level):

- 2010-2013 Chairman,
- 1997- — Member, 'Pattantyús' Habilitation and Doctoral Committee for Mechanical Engineering, Budapest University of Technology and Economics
- 1997-2012 Elected Member, Senate, Budapest University of Technology and Economics
- 1997-2006 Chairman, Scientific Committee, Budapest University of Technology and Economics
- 1996-2007 Member, Educational Committee of Mechanical Engineering, Budapest University of Technology and Economics
- 1991-1995 Elected Member, Faculty Council of Mechanical Engineering, Technical University of Budapest
- 1991-1994 Member, Educational Committee and Scientific Committees of Mechanical Engineering, Technical University of Budapest
- 1991-1993 Minute Taker, Faculty Council of Mechanical Engineering, Technical University of Budapest

**Scientometrics:**

**Publications**

- 2 Book (Longman/Wiley, Springer)
- 4 Proceedings editor
- 5 Theme issue editor
- 21 Book chapter
- Paper* (Web of Science only)
- 71 SCI WoS
- 35 CPCI WoS
- 77.299 Impact Factor

**Citations** (Web of Science only)

- 1339 Papers times cited
- 1112 Papers times cited without self-citations
- 693 Citing Articles
- 615 Citing Articles without self-citations
- 19 Hirsh-index
- 424 Book times cited

**Citations** (Scopus only)

- 1610 Papers times cited after 1995
- 1610 Papers times cited without self-citations after 1995
- 21 Hirsh-index after 1995
- 18 Hirsh-index without self-citations after 1995

**Citations** (Google Scholar)

- 3500 All known
- 2245 All known since 2006
- 29 Hirsh-index
- 25 Hirsh-index since 2006

**Citations** (MTMT <https://vm.mtmt.hu>)

- 2375 All known
- 2007 All known without self-citations
- 21 Hirsh-index
- 20 Hirsh-index without self-citations

**Reviewed PhD theses**

- 5 international (Stockholm, Eindhoven, Bristol – 2, Vancouver)
- 28 national

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**Last updated:**

2012 August