

Curriculum Vitae



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Academic Career

- 1984 Diploma in Mechanical Engineering
- 1984 – 1989 PhD candidate at the Department of Mechanism Theory and Machine Dynamics of RWTH Aachen University
- 1989 Ph.D. Doctoral dissertation on „ Simulation of the kinematic and dynamic behaviour of manipulators with partially closed kinematic chains “, Degree „magna cum laude“
- 1991 – 2000 University teaching assignment at RWTH Aachen University
“Kinematics and dynamics of spatial mechanisms, robots and manipulators”
- 2000 Appointment as University Professor and Director of the Department of Mechanism Theory and Machine Dynamics of RWTH Aachen University
- 2010 Adjunct Professor at Beijing Jiaotong University
- 2019 Visiting Professor at Tokyo Institute of Technology

Professional Career

- 1984 – 1991 Assistant lecturer and directing engineer at the Department of Mechanism Theory and Machine Dynamics of RWTH Aachen University
- 1991 – 1993 Research- and development engineer, Emhart Glass Germany GmbH in Neuss, Germany.
- 1993 – 2000 Project leader, Emhart Glass SA in Cham, Switzerland.
- since 2000 University Professor and Director of the Institute of Mechanism Theory and Machine Dynamics of RWTH Aachen University, since 2017 Institute of Mechanism Theory, Machine Dynamics and Robotics) with courses in mechanism theory, machine dynamics and robotics as well as design engineering and machine elements.

Scientific Associations and Membership

- since 1987 Member of the German Association of Mechanical Engineers (VDI)

- since 1991 Chairman of the VDI-Committee “Mechanisms for handling and manipulation“
- since 1991 Member of the VDI-Scientific Board on “Mechanism and Machine Theory”.
- since 1995 Member of the German Society of Glass Technology
- since 1998 Chairman of the Scientific Committee of the bi-annual VDI/VDE Mechatronics Conference
- 2000 to 2011 National Chair of the German section of IFToMM (International Federation for the Promotion of Mechanism and Machine Science)
- 2002 to 2005 Member of the IFToMM Technical Committee “Linkages and Cams”
- 2002 to 2014 Vice Chairman of the VDI-Scientific Board on “Mechanism and Machine Theory”.
- 2003 to 2008 Member of the scientific advisory board of the ZA Technology of the Research Center Jülich, Germany
- 2004 to 2018 Member of the scientific advisory board of VDI-Springer book series
- 2006 to 2011 Chairman of the Technical Committee „Linkages & Mechanical Controls“ of IFToMM
- 2012 to 2019 Member of the Executive Council of IFToMM
- since 2015 Chairman of the VDI-Scientific Board on “Mechanism and Machine Theory”.

Publications

More than 400 publications containing books, journal and conference papers covering different topics such as robotics, linkages, cam mechanism, glass machinery, pneumatic mechanisms, computer-aided graphical analysis and synthesis in mechanism theory, mechatronic development and machine design strategy. See also <http://publications.rwth-aachen.de/search?ln=en&p=aid%3A%22P%3A%28DE-82%29IDM00228%22&jrec=1>

Awards

- 1989 Dissertation Award of RWTH Aachen University (Borchers Medal)
- 2007 Badge of Honor of the VDI
- 2008 Plaque of Honor of the VDI
- 2013 Honorary Doctorate from Polytechnic University of Timisoara, Romania
- 2016 Medal of Honor of the VDI



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