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Position: Professor for Automation Engineering, TU Dresden

Date of birth: 24.05.1954

Education

1978 “Dipl.-Ing.” degree in Electrical Engineering, Technische Universität Graz, Austria
1982 „Dr.techn.“ degree (with distinction) in Electrical Engineering (Automatic Control, Prof. G. Schneider), Technische Universität Graz, Austria

Industry Background

1982-1985 R&D Engineer for Servohydraulic Systems with Carl Schenck AG, Darmstadt, Germany
1985-1995 R&D Engineer and Senior Engineer for Guidance-Navigation-Control with Daimler-Benz Aerospace - Dasa (formerly MBB - Messerschmitt-Bölkow-Blohm), Satellite Systems, Control & Simulation Department, Ottobrunn, Germany

Academic Background

since 1995 Full Professor (C4) for Automation Engineering and Managing Director Institute of Automation at the Faculty of Electrical and Computer Engineering, Technische Universität Dresden, Germany
since 2004 Affiliated faculty member to the Faculty of Mechanical Engineering, Technische Universität Dresden, Germany
2001-2006 Dean of Studies Mechatronics, TU Dresden
2006-2009 Vice Dean of Faculty of Electrical and Computer Engineering, TU Dresden
2009-2012 Dean of Faculty of Electrical and Computer Engineering

Visiting Positions (scholar/professor)

- Stanford University, USA, Aeronautics & Astronautics Department (2005);
- Universidade Tecnológica Federal do Paraná, Campus Curitiba, Brazil (2007);
- Universidade Federal de Santa Catarina (UFSC), Florianópolis, Brazil (2009, 2012, 2014);
- Guest Professorship (2012-2015) at East China University for Science and Technology (ECUST), Shanghai, China.

Scientific Activities

- *IFAC – International Federation of Automatic Control*: Member of the Technical Board – Coordinating Committee Chair CC 4 “Mechatronics, Robotics & Components (2014-2017), Chair of Application Paper Prize Selection Committee (2012-2014); Vice-Chair Technical Committee 4.2 on Mechatronics (2009-2011, 2012-2014); 4th IFAC Symposium on Mechatronic Systems 2006, Heidelberg, Germany: Chair of the International Program Committee;
- *DFG – Deutsche Forschungsgemeinschaft (German Research Foundation)*: Elected Review Board Member (Fachkollegiat 2008-2011, 2012-2015) for Automation, Control Systems, Robotics and Mechatronics; Head of Review Board on Systems Engineering (Sprecher Fachkollegium Systemtechnik, 2012-2015);
- *VDI – Verein Deutscher Ingenieure, Measurement and Automation Engineering Society (GMA-Gesellschaft für Mess- und Automatisierungstechnik)*: Elected Board Member, Branch Chair of Mechatronics, Robotics and Actuators (Fachbereich 4 „Aktoren und Stellsysteme, Mechatronik und Robotik“); Chairman of the Technical Committee on Mechatronics (Fachausschusses 4.15 „Mechatronik“, 1999-2010); German Mechatronics Conferences: Program-Co-Chair (biannual, since 2005);
- *Wissenschaftsrat – German Council of Science and Humanities*: Assigned Member of Research-Rating Group Electrical Engineering (2009-2011);

- *KTH Stockholm*: invited review board member for Research Assessment Exercise – RAE 2012 (2012)
- *AiF – Arbeitsgemeinschaft industrielle Forschungsvereinigungen*: Elected Member of the Scientific Review Board (2003-2005);
- *Journal at-Automatisierungstechnik*, Oldenbourg Verlag: member of editorial board (1999 – 2009)
- Memberships: AIAA - American Institute of Aeronautics and Astronautics; ASME - American Society of Mechanical Engineers; DGLR - Deutsche Gesellschaft für Luft- und Raumfahrt.

Scientific Awards

- Conference Best Paper Award: 3rd IFAC Conference on Mechatronic Systems – Mechatronics 2004, 6-8 September 2004, Sydney, Australia;
- Best Paper Award 2004 for category “Methods”: *Journal at-Automatisierungstechnik*, Oldenbourg Verlag;
- atp-Award 2009 for category “Universities”: *Journal atp-edition - Automatisierungstechnische Praxis*, Oldenbourg Verlag;
- Conference Best Paper Award: VDI Fachtagung Mechatronik 2011, Dresden, Germany;
- Conference Best Paper Award: VDI Fachtagung Mechatronik 2013, Dresden, Germany.

NEW PUBLICATIONS – BOOKS



Systementwurf mechatronischer Systeme

Methoden – Modelle – Konzepte

Janschek, Klaus

2010, 842 S. 387 Abb., Geb.

ISBN: 978-3-540-78876-8

Springer

<http://www.springer.com/engineering/robotics/book/978-3-540-78876-8>



International edition in English, published September 2011

Mechatronic Systems Design

Methods – Models – Concepts

Janschek, Klaus

ISBN: 978-3-642-17530-5



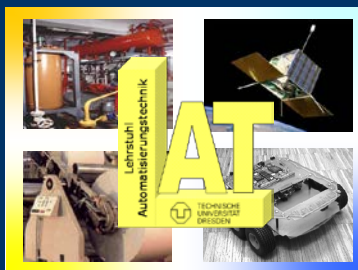

<http://www.springer.com/engineering/robotics/book/978-3-642-17530-5>



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Faculty of Electrical and Computer Engineering

Research

<p>Staff Scientific (Faculty): 6 Scientific (Ext.): 12 Technical: 3</p>	<p>Systems Design Systems Modeling UML, XML Performance Analysis RAMS Modeling, Analysis & Design Modeling & Simulation</p> 	<p>Guidance, Navigation Control Image-based Navigation /SLAM Model predictive planning Behavior-based control Set-based methods Control architectures Minimum-Hardware-Concepts</p>
<p>Closed Processes Modeling & Simulation Process Control Process Measurement</p> 		<p>Optical Computers Opto-Mechatronics Control of MEMS-Micromirrors Optical Fourier Processors Optical Correlators Smart Imaging Systems Surface Inspection</p> 
<p>Information-based Automation Internet Technologies Model-based Technologies</p> <p>Industrial Automation</p>		<p>Robotics & Mechatronics</p>