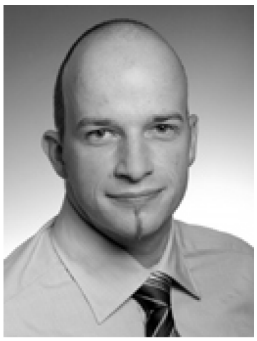
Curriculum Vitae



Prof. Dr. Marco Huber

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Date and place of birth: January 12, 1980 in Kehl, Germany
Family status: In a relationship, two children
Nationality: German

Professional Career

Since 10/2018	Professor for Cognitive Production Systems with the University of Stuttgart, Germany
Since 10/2018	Head of the Center for Cyber-Cognitive Intelligence at the Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Stuttgart, Germany
04/2015 – 09/2018	Chief Data Scientist & Team Leader with USU Software AG, Karlsruhe, Germany
04/2010 – 09/2018	Lecturer / Adjunct professor (Privatdozent) at the Department of Informatics, Karlsruhe Institute of Technology (KIT), Germany
07/2011 – 03/2015	Senior Researcher with AGT International, Darmstadt, Germany
06/2009 – 05/2011	Head of the research group “Variable Image Acquisition and Processing” of the Fraunhofer Institute of Optronics, System Technologies and Image Exploitation IOSB, Karlsruhe, Germany
02/2006 – 04/2009	Research assistant and Ph.D. student at the chair of Intelligent Sensor-Actuator-Systems (ISAS), Department of Informatics, Universität Karlsruhe (TH), Germany
01/2008 – 04/2008	Visiting scholar at the Australian Centre for Field Robotics (ACFR), University of Sydney with Prof. Hugh Durrant-Whyte
09/1999 – 06/2000	Basic military service, Wehrbereichskommando V / 10. Panzerdivision Generalstabsabteilung 2, Sigmaringen, Germany

Education

01/2015	Habilitation, Karlsruhe Institute of Technology (KIT), Germany Habilitation treatise: "*Nonlinear Gaussian Filtering: Theory, Algorithms, and Applications*". Venia legendi in computer science
04/2009	Dissertation (predicate: summa cum laude), Karlsruhe Institute of Technology (KIT), Germany Thesis: "*Probabilistic Framework for Sensor Management*" Supervisors: Prof. Uwe Hanebeck and PD Dr. Wolfgang Koch
10/2000 – 01/2006	Diploma studies in computer science at the Universität Karlsruhe (TH) • Degree: Dipl.-Inform. with honors • Thesis: "*Efficient Prediction of Nonlinear Systems by means of Approximating Transition Densities with Gaussian Mixtures*" • Specialization: knowledge-based systems, embedded systems • Supplementary: mechatronics
1986 – 1999	School years, matriculation standard

Awards

04/2009	Dissertation with predicate "summa cum laude"
02/2009	Teaching award for the best tutorial of a lecture in summer semester 2008 Teaching award for the best laboratory in summer semester 2008
02/2008	Teaching award for the best tutorial of a lecture in summer semester 2007
07/2006	Top ten percent of computer science graduates Diploma studies in computer science graduated with honors

Memberships

Since 2016	German Association of University Professors and Lecturers
Since 2012	Project Management Institute
Since 2006	IEEE Robotics and Automation Society IEEE Signal Processing Society

Scientific Activities

Guest Editor	Special Section “Multisensor Fusion and Integration for Intelligent Systems“, IEEE Transactions on Industrial Informatics, 2017
Member of the program committee	SimScience: International Workshop on Simulation Science (2017, 2019)
	MFI: IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (2016, 2017)
	Fusion: International Conference on Information Fusion, 2017
Tutorial & Workshop Chair	MFI: IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems, 2016
Journal reviewer	Automatica at – Automatisierungstechnik Entropy IEEE Access IEEE Transactions on Aerospace and Electronic Systems IEEE Transactions on Automatic Control IEEE Transactions on Industrial Informatics IEEE Transactions on Neural Networks and Learning Systems IEEE Transactions on Signal Processing IEEE Signal Processing Letters Information Fusion International Journal for Numerical Methods in Engineering International Journal of Adaptive Control and Signal Processing Inverse Problems in Science & Engineering Journal of Guidance, Control, and Dynamics Mathematical Problems in Engineering Pattern Recognition MDPI Sensors The Scientific Pages of Robotics Transportation Research

Publications

Books, Chapters	2 monographs, 2 proceedings, 1 book chapter
Journals	11 articles published
Patents	3 patents, 2 utility models, 6 patent applications, 10 trade secrets
Conferences	48 peer-reviewed papers published

Research Topics

Machine Learning

Data Science / Data Analytics

Image and Signal Processing

Industry 4.0 and Digital Transformation

Nonlinear State Estimation

Planning and Optimization

Robotics and Automation