

Timm Faulwasser received his Diploma in Engineering Cybernetics from the University of Stuttgart, Stuttgart, Germany, in 2006. He conducted his doctoral studies in the International Max Planck Research School Magdeburg and received his Ph.D. degree from the Faculty of Electrical Engineering and Information Technology, Otto-von-Guericke-University Magdeburg, Germany, in 2012.



Currently, he leads the Advanced Control Group at the Institute for Applied Computer Science, Karlsruhe Institute of Technology, Germany. Moreover, he is KIT Associate Fellow of the Faculty of Informatics of KIT. From 2013-2016, he was a senior researcher at the Automatic Control Laboratory of EPFL in Lausanne, Switzerland. He is postdoctoral fellow of the Daimler and Benz Foundation and fellow in the Elite Programme for PostDocs of the Baden-Württemberg Stiftung.

His current *research interests* include nonlinear model predictive control, optimal control, and real-time optimization with applications ranging from mechatronics, chemical engineering, to energy systems.



Pontus Giselsson is an Associate Professor at the Department of Automatic Control at Lund University, Sweden.

His current research interests include mathematical optimization and its applications.

More specifically, his current *research* is focused on i) algorithms for large-scale optimization ii) optimization methods for low-rank and sparse estimation.

Boris Houska received a diploma in mathematics and physics from the [University of Heidelberg](#) in 2007, and a Ph.D. in Electrical Engineering from [KU Leuven](#) in 2011.

From 2012 to 2013 he was a postdoctoral researcher at the [Centre for Process Systems Engineering](#) at [Imperial College London](#). From 2013-2014 Boris Houska worked as faculty member at the [Department of Automation](#) at [Shanghai Jiao Tong University](#). Since October 2014 he is an assistant professor at the [School of Information Science and Technology](#) at [ShanghaiTech University](#).



Boris Houska's *research interests* include numerical optimization and optimal control, robust and global optimization, as well as fast model predictive control algorithms.



Sergio Lucia obtained his M.Sc. in Electrical Engineering from the University of Zaragoza in 2010 and the Dr.-Ing. degree from TU Dortmund in the field of optimization and automatic control in 2014. He then joined the Otto-von-Guericke Universität Magdeburg, and visited the Massachusetts Institute of Technology as a Postdoctoral Fellow. Since May 2017, he is Juniorprofessor and holds the chair “Internet of Things for Smart Buildings” at the TU Berlin and the Einstein Center Digital Future.

His *research* efforts focus on decision-making under uncertainty, distributed control, and embedded optimization using micro-controllers and FPGAs in the framework of the Internet of Things. Applications of interest include smart buildings and Li-ion battery systems.

Mohamed W. Mehrez received the Ph.D. degree in Mechanical Engineering from Memorial University of Newfoundland, St. Johns, NL, Canada, in May, 2017. Mohamed is currently a post-doctoral fellow with Memorial University working on pack ice field estimation for aided ship navigation.

His *research interests* also include control and state estimation of mobile robots with a particular focus on optimization-based solutions.



Matthias A. Müller received a Diploma degree in Engineering Cybernetics from the University of Stuttgart, Germany, and an M.S. in Electrical and Computer Engineering from the University of Illinois at Urbana-Champaign, US, both in 2009. In 2014, he obtained a Ph.D. in Mechanical Engineering, also from the University of Stuttgart, Germany, for which he received the 2015 European PhD award on control for complex and heterogeneous systems. He is currently working as a senior lecturer (Akademischer Oberrat) at the Institute for Systems Theory and Automatic Control at the University of Stuttgart, Germany. In 2012, he was a visiting researcher at the Imperial College, London, UK. He is a member of the Eliteprogram for PostDocs of the Baden-Württemberg Foundation and was a semi-plenary speaker at the 5th IFAC Conference on Nonlinear Model Predictive Control 2015. His research interests include nonlinear control and estimation, model predictive control, distributed control and switched systems.

Research interests:

- nonlinear control and estimation
- nonlinear/distributed/economic model predictive control
- moving horizon estimation
- distributed/cooperative control
- applications in biomedical systems, power networks, ...

Jürgen Pannek received his PhD in Mathematics from University of Bayreuth, Germany, in 2009. Afterwards, he worked as PostDoc in Mathematics at University of Bayreuth and in the Business Department at Curtin University of Technology Perth, Australia, from 2010 to 2011. From 2011 to 2014 he worked in the Aerospace Engineering Department at the University of the Federal Armed Forces Munich, Germany, where he served as Substitute Professor for Numerical Mathematics from 2012 to 2014. Thereafter he joined the Department of Production Engineering at University of Bremen as Assistant Professor for Dynamics in Logistics.



In his *research*, he focusses on model predictive control, logistics and robotic systems as well as supply chain management.



Moritz Schulze Darup obtained a Master (Dipl.-Ing.) in Mechanical Engineering and a Bachelor in Physics from the Ruhr-University Bochum in 2008 and 2010, respectively. He then joined the Automatic Control and Systems Theory group at the same university, where he finished his doctoral studies on stabilizability of constrained nonlinear systems in 2014. Afterwards, he spent 18 months at the University of Oxford as a postdoctoral researcher funded by the German Research Foundation (DFG). In 2016, a return grant first brought him back to his alma mater. He then followed an invitation by the Control and Signal Processing Lab at the University of Melbourne for a 2 months academic visit. Recently, he joined Pa-

derborn University as a Lecturer for Control and Systems Theory.

His *research interests* include optimal and constrained control, robust control, global optimization, and scientific computing.

Marleen Stieler received the Diploma degree in mathematics from the University of Bayreuth, Bayreuth, Germany, in 2011.

Since then, she has been with the Chair of Applied Mathematics at the University of Bayreuth, pursuing the Ph.D. degree under the supervision of Lars Grüne.

Her *research interests* are in the field of systems and control theory and currently focused on the analysis of model predictive control schemes for single- and multiobjective optimal control problems.



Karl Worthmann received the Diploma degree in business mathematics and the Ph.D. degree in mathematics from the University of Bayreuth, Germany. He is Assistant Professor at Technische Universität Ilmenau, Ilmenau, Germany.

His current *research interests* include systems and control theory with a particular focus on nonlinear model predictive control and sampled-data systems.

Mario Zanon received my B.Sc. in Industrial Engineering from the University of Trento in 2008 and my M.Sc. in 2010 in Mechatronics and in General Engineering from the University of Trento and the Ecole Centrale Paris respectively in the context of a dual degree agreement.

I obtained my Ph.D. in Electrical Engineering from the KU Leuven in 2015 under the supervision of Prof. Moritz Diehl. Since then, I am a postdoc researcher at Chalmers University of Technology under the supervision of Prof. Paolo Falcone.



My *research interests* include distributed MPC, economic MPC, optimal control and estimation of nonlinear dynamic systems, in particular for aerospace and automotive applications.