

CV Prof. Dr. Sebastian Engell, TU Dortmund



Prof. Engell received a Dipl.-Ing degree in Electrical Engineering from Ruhr-Universität Bochum, Germany in 1978 and the Dr.-Ing. Degree and the *venia legendi* in Automatic Control from Universität Duisburg in 1981 and 1987. 1984/1985 he spent a year as a PostDoc at McGill University, Montréal, Canada. 1986-1990 he was the head of an R&D group at the Fraunhofer Institut IITB in Karlsruhe, Germany. 1990 he was appointed to his present position as a Full Professor of Process Dynamics and Operations in the Department of Chemical Engineering at TU Dortmund. 2008 he was a Distinguished Visiting Professor at Carnegie Mellon University, Pittsburgh, USA. He was Department Chairman 1996-1999 and 2012-2014 and Vice-Rector for Research of TU Dortmund 2002-2006. He currently is a member of the Research Council of the Alliance of the Universities in the Ruhr Region, UA Ruhr.

Prof. Engell received an IFAC Journal of Process Control Best Paper Award, and is a co-author of the 2014 and 2016 Best Papers in Computers and Chemical Engineering. He received the Best Paper Award of the IEEE Congress on Evolutionary Computation 2010 with Thomas Tometzki on risk-conscious planning and the PSE Model-based Innovation Prize with Ala Eldin Bouaswaig. He gave the Bayer Lecture in Process Systems Engineering at Carnegie Mellon University in 2008 and the Roger Sargent Lecture at Imperial College, London, in 2012. He has published more than 120 Papers in scientific journals, more than 40 papers in edited volumes and more than 300 conference papers with peer review and full papers in proceedings. His Scopus paper count is 530 with 4900 citations. He graduated more than 70 PhD students at TU Dortmund. In 2012, he was awarded a European Advanced Investigator Grant for the Project MOBOCON – Model-based Optimizing Control – From a Vision to Industrial Reality.

Prof. Engell is a Fellow of IFAC, the International Federation of Automatic Control since 2006 and has led the IFAC Fellow Selection Committee 2012-2014 He served as President of EUCA, the European Control Association and is a member of the selection committee for the European Control Award.

Prof. Engell has led several European Projects in the FP6, FP7 and Horizon 2020 Frameworks: Multiform (ICT), DYMASOS (ICT), CPSoS (Support Action, ICT), MORE (NMP) and CoPro (SPIRE, ongoing). The CPSoS project developed a roadmap for Cyber-physical Systems of Systems in Europe. He was involved in the Marie Curie Research Training Networks oCPS and PRONTO and currently is a partner in the EU-India project LOTUS on monitoring water quality and managing water systems.

His research areas are in the domains of model-based optimizing control, real-time optimization, and scheduling. In his research, the aspect of uncertainty about the behavior of the system that is controlled or optimized has always been in the focus.