Wednesday, May 7

08:30	Registration
09:00	Opening
09:15	**Arndt Lüder (Otto von Guericke University Magdeburg)** Mechatronical engineering of production systems and its new challenges (also) for mathematical research
10:00	**Daniel Wolff (inpro, Berlin)** Digital factory goes blue – energy and resource efficiency aspects
10:30 – 11:00	– Coffee Break –
11:00	**Luca Ghezzi, Aldo Sciacca (ABB Italy S.p.A., Vittuone)** Applications of computational mathematics to industrial products and processes: the case of ABB
11:45	**Tamás Kis (Institute for Computer Science and Control, Budapest)** Production planning and scheduling in the digital factory
12:30 – 14:00	– Lunch Break –
14:00	**Zoltán Horváth, János Jósvai (Széchenyi István University, Győr)** Scheduling of production lines in automotive factories with the modeling, simulation and optimization technology
14:45	**Felix Damrath (Daimler AG, Ulm),** **Anton Strahilov (Rücker EKS GmbH, Weingarten)** Energy considerations in Virtual Commissioning
15:15	**Ulrich Schmucker (Fraunhofer Institute for Factory Operation** **and Automation, Magdeburg)** About some mathematical aspects of virtual product development
15:45 – 16:15	– Coffee Break –
16:15	**Rikardo Bueno (Tecnalia Research & Innovation, San Sebastian)** The factories of the future roadmap
17:00	**Jens Korell (Project Management Agency Karlsruhe)** Research topics factories of the future 2015
19:30 – 21:30	Dinner

Thursday, May 8

09:00	**Simone Göttlich (University of Mannheim)** Modeling of material flow problems
09:45	**Jörg Raisch (TU Berlin)** Optimal control of High-Throughput-Screening systems in a dioid framework
10:30 – 11:00	– Coffee Break –
11:00	**Fredrik Edelvik (Fraunhofer-Chalmers Centre, Gothenburg)** The virtual paint shop
11:45	**Klaus Dreßler, Joachim Linn (Fraunhofer ITWM, Kaiserslautern)** Simulation for assembly-oriented design and digital validation of cables and hoses
12:30 – 14:00	– Lunch Break –
14:00	**Chantal Landry (Weierstrass Institute, Berlin)** Automatic reconfiguration of robotic workcells
14:45	**Wolfgang Welz (TU Berlin)** Combinatorial optimization aspects of robot tour planning
15:15	**Konstantin Palagachev (Munich Aerospace/University of the Federal Armed Forces Munich, Neubiberg)** Switched system optimal control problems with applications to robotics
15:45 – 16:15	– Coffee Break –
16:15	**Josef Prinz (inpro, Berlin)** Simulation and optimization of the transfer of thin flexible metal sheets in forming presses
16:45	**Steen Markvorsen (Technical University of Denmark, Lyngby)** Hot wire cuttings for the building industries
17:15	**Pavel Burget (Czech Technical University in Prague)** Simulation of idle-times energy savings on a welding line
17:45	**Premysl Sucha (Czech Technical University in Prague)** Optimization of power consumption for robotic lines in automotive industry

Friday, May 9

09:00	**René Pinnau (TU Kaiserslautern)** The production of filaments and non-woven materials — the design of the polymer distributor
09:45	**Markus Grebenstein (DLR, Wessling)** Compliant robots in automation: The impact of humanoid robotics on automation
10:30 – 11:00	– Coffee Break –
11:00	**Martin Krüger (Fraunhofer Institute for Production Technology IPT, Paderborn)** Model-based design of self-correcting forming processes
11:30	**Xavier David-Henriet (TU Berlin/University of Angers)** About closed-loop control and observability of max-plus linear systems: Application to manufacturing systems
12:00	Closing