

## Seminar Schedule

**Note:** The allocated 30 minutes slot per contribution is meant to include time for questions and discussion on the presentation. Hence, please plan for a no longer than 25 (or even better 20) minutes presentation.

Monday, May 2nd		
Time	Talk	
08:30 – 09:15	Welcome & Introduction (brief introduction of every participant)	Kirstie Bellman, Andreas Herkersdorf
09:15 – 10:00	Overview to DFG Organic Computing program	Hartmut Schmeck
10:00 – 10:45	Introduction to design-time to run-time design shift challenges	Christian Müller-Schloer
10:45 – 11:15	Coffee Break	
11:15 – 11:45	Points of entry between OC design and traditional and advanced design methodologies	Kirstie Bellman
11:45 – 12:15	A Decade of experience building adaptive systems	Paul Robertson
12:15 – 14:00	Lunch Break	
14:00 – 14:30	Self-configuration from a Machine-Learning Perspective	Wolfgang Konen
14:30 – 15:00	A proposal how to combine bottom-up emergence and top-down control during runtime	Gabriele Peters
15:00– 15:30	A glimpse of signaling pathways in the synapse	Junmei Zhu
15:30 – 16:00	Coffee Break	
16:00 – 16:30	Slow Feature Analysis: Learning with the Slowness Principle	Laurenz Wiskott
16:30 – 17:15	Discussion on “Introduction Session” (09:15 – 12:15)	Moderator: A. Herkersdorf
17:15 – 18:00	Discussion on “Learning Session” (14:00 – 16:30)	Moderator: H. Schmeck
18:00	Dinner	

**Dagstuhl Seminar on Organic Computing – Design of Self-Organizing Systems, 11181**  
 Sunday, May 1 – Friday, May 6

Tuesday, May 3 <sup>rd</sup>		
Time	Talk	
08:30 – 09:00	Runtime adaptation evaluation	Yuriy Brun
09:00 – 09:30	Run Time System Design	Chris Landauer
09:30 – 10:00	Designing Open Swarming Systems for Dynamic Runtime Adaptation	Sven Brueckner
10:00 – 10:30	Researching the Artificial Hormone System - Lessons Learned	Uwe Brinkschulte
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Self-Organized Self-Improvement: Using Self-Directed Experimentation to Improve Models and Methods	Phyllis Nelson
11:30 – 12:15	Discussion on “Run-time Session” (08:30 – 11:30)	Moderator: C. Müller-Schloer
12:15 – 14:00	Lunch Break	
14:00 – 14:30	Knowledge Representation for Autonomous Systems – The ASCENS Case Study	Emil Vassev
14:30 – 15:00	Cyber Physical Systems (CPS) or better Cyber Biosphere (CBS)?	Franz Rammig
15:00– 15:30	Sensing, Communication and Organization in Wireless Sensor Systems	Michael Beigl
15:30 – 16:00	Coffee Break	
16:00 – 16:30	Engineering Proprioception in Computing Systems	Marco Platzner
16:30 – 17:00	Mission Aware Adaptive Response System	Bob Laddaga
17:00 – 17:30	Challenges for energy systems	Hartmut Schmeck
17:30 – 18:00	Discussion on “Systems-I Session” (14:00 – 17:30)	Moderator: R. Würtz
18:00	Dinner	

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 Sunday, May 1 – Friday, May 6

Wednesday, May 4th		
Time	Talk	
08:30 – 09:00	Evolutionary Algorithms to support the design of self-organising manufacturing systems	Jürgen Branke
09:00 – 09:30	Organic Self-organizing Bus-Based Communication Systems (OrganicBus)	Jürgen Teich
09:30 – 10:00	Self-adaptive workload management on MPSoC	Johannes Zeppenfeld, A. Herkersdorf
10:00 – 10:30	Learning to see and understand	Rolf Würtz
10:30 – 11:00	Coffee Break	
11:00 – 11:30	The Six-Legged Walking Robot OSCAR as a Demonstrator for the Organic Robot Control Architecture ORCA	Erik Maehle
11:30 – 12:00	Quantitative Emergence – An Overview of Recent Measurement Techniques	Bernhard Sick
12:00 – 12:30	Brainstorming: Topics and objectives assignment for working group sessions on Thursday	Kirstie Bellman
12:30 – 13:30	Lunch Break	
13:30 – 18:00	Hike or sightseeing to Trier	
18:00	Dinner	

**Dagstuhl Seminar on Organic Computing – Design of Self-Organizing Systems, 11181**  
 Sunday, May 1 – Friday, May 6

Thursday, May 5th		
Time	Talk	
08:30 – 09:00	Physics-inspired Self-Organization and Adaptation in Large Dynamic Overlay Networks	Ingo Scholtes
09:00 – 09:45	Room for additional on site volunteered contribution(s)	???
09:45 – 10:30	Discussion on “Systems-II Session” (Wednesday morning, 08:30 – 12:00, Thursday morning)	Moderator: M. Platzner
10:30 – 11:00	Coffee Break	
11:00 – 12:15	Working group sessions	
12:15 – 14:00	Lunch Break	
14:00 – 15:30	Continuation on working group sessions	
15:30 – 16:00	Coffee Break	
16:00 – 16:45	Continuation of working group sessions	
16:45 – 18:00	Plenum discussion on working group sessions	ALL
18:00	Dinner	

Friday, May 6th		
Time	Talk	
08:30 – 10:30	Working group sessions on report drafting	
10:30 – 11:00	Coffee Break	
11:00 – 12:15	Plenum session on report consolidation Concluding Remarks Adjourn	ALL
12:30 – 14:00	Lunch Break	