

8th German Workshop on Artificial Life

Leipzig, 30 July – 01 August, 2008

Wednesday, 30 July 2008

19:00	Welcome Reception in the courtyard of MPI-MiS, Inselstrasse 22, Leipzig
-------	---

Thursday, 31 July 2008

09:00	Registration
09:20	Opening
09:30	<i>Enzyme-like replication de novo in a micro-controller environment</i> , Uwe Tangen
10:30	<i>Evolution of 3D development controlled by a gene regulatory network: The complexity of the search space and evolvability</i> , Michal Joachimczak , Borys Wrobel
11:00	Break
11:30	<i>Network structure and emergence of robustness by stabilizing selection in an artificial genome</i> , Thimo Rohlf , Chris Winkler.
12:00	<i>The Influence of Dynamic Environments on Polyethism in Response Threshold Models for Social Insects</i> , Konrad Diwold , Daniel Merkle, Martin Middendorf
12:30	<i>Information-driven organization of visual receptive fields</i> , Christoph Salge , Daniel Polani
13:00	Lunch
14:00	<i>Life-Like behavior in a simulated lipid world</i> , Aia Oz, Hamutal Arbel, Aron Inger, Tsviya Olender, Doron Lancet
15:00	<i>Noise-driven stem cell and progenitor population dynamics</i> , Martin Hoffmann , Jörg Galle
15:30	Break
16:00	<i>Modelling Bacterial Metapopulations</i> , Florian Centler , Ingo Fetzer, Martin Thullner
16:30	<i>Cyclic coevolutionary dynamics in finite populations: From discrete stochastic processes to replicator and Fokker-Planck equations</i> , Jens Christian Claussen
17:00	<i>Task allocation by dynamic specialization*</i> , Sven Magg , Rene Te Boekhorst
17:30	<i>Discussion: Future of GWAL</i> , led by Eckehard Olbrich
17:50	end of session
19:30	Dinner at restaurant <i>Weinstock</i>

* to be confirmed

Friday, 01 August 2008

10:00	<i>Looking for Evidence of Differentiation and Multicellular Cooperation*</i> , Moritz Buck , Chrystopher L. Nehaniv
10:30	<i>Discussion: Teaching Artificial Life*</i> , led by Peter Dittrich
11:00	Break
11:30	<i>Time-evolution of the Rule 150 cellular automaton activity on two-dimensional and Bethe lattices</i> , Jens Christian Claussen
12:00	<i>Artificial life from the principle of homeokinesis</i> , Ralf Der
12:30	<i>Adaptive communication promotes sub-system formation in a multi agent system</i> , Paolo Di Prodi and Bernd Porr
13:00	Lunch
14:00	<i>Behaviour and Cognition as a Complex Adaptive System: Insights from Evolutionary Robotics Experiments</i> , Stefano Nolfi
15:00	<i>Emergent and goal-oriented behavior in autonomous robots</i> , J. Michael Herrmann , Frank Hesse, Georg Martius
15:30	Concluding remarks, end of workshop

