



Call for Participation

ARCS 2005 Architecture of Computing Systems (ARCS) – System Aspects in Organic and Pervasive Computing (<http://www.teco.edu/arcs05/overview.html>)

WORKSHOP SELF-ORGANIZATION AND EMERGENCE: ORGANIC COMPUTING AND ITS NEIGHBORING DISCIPLINES

March 17, 2005, Innsbruck

9:00	Opening (C. Müller-Schloer)
9:10 – 10:50	Presentations 1 – 4 (20 min + 5 min discussion each)
10:50 – 11:30	Coffee break
11:30 – 12:45	Presentations 5 – 7

Program

Session 1 (Chair: H. Schmeck)

- The Bio-Chemical Information Processing Metaphor as a Programming Paradigm for Organic Computing
Peter Dittrich
- Towards a Framework and a Design Methodology for Autonomous SoC
Gabriel Lipsa, Andreas Herkersdorf, Wolfgang Rosenstiel, Oliver Bringmann, Walter Stechele
- Self-Organizing, Adaptive Data Fusion for 3d Object Tracking
Olaf Kähler, Joachim Denzler
- Adaptive Object Acquisition
Gabriele Peters, Claus-Peter Alberts, Markus Briese, Sebastian Entian, Christian Gabriel, Zhigiang Gao, Alexander Klandt, Thomas Leopold, Jan Schultze, Jeremias Spiegel, Jürgen Thyen, Martina Vaupel, Peter Voß, Qing Zhu

Coffee break

Session 2 (Chair: T. Ungerer)

- Marching Pixels: A new Organic Computing Principle for Smart CMOS Camera Chips
Dietmar Fey, Daniel Schmidt
- Organic Architectures for Large-Scale Environment-Aware Sensor Networks
Paul Lukowicz, Erhardt Barth, Jan T. Kim
- Self-Organization in Sensor Networks using Bio-Inspired Mechanisms
Falko Dressler, Bettina Krüger, Gerhard Fuchs, Reinhard German

Organization and Program Committee

Dietmar Fey, Institut für Informatik, University of Jena
Thomas Martinetz, Institute for Neuro- and Bioinformatics, University Lübeck
Christian Müller-Schloer, Institute of Systems Engineering, University of Hannover
Hartmut Schmeck, AIFB, University of Karlsruhe
Theo Ungerer, Institute of Computer Science, University of Augsburg
Rolf Würtz, Institut für Neuroinformatik, Ruhr University Bochum