

IWSOS 2006 – Technical Program

Sunday, September 17, 2006 "Early bird activities"

10:00-17:00 Two half days planned for tutorial sessions.

17:30-19:30 Opening of Exhibition and Registration

18:00-19:30 Get-Together and Welcome Reception Party

Monday, September 18, 2006

08:00-08:30 Registration

08:30-09:00 Get-Together Coffee (and late registration)

09:00-09:30 Welcome Address and Opening Session

Hermann de Meer (Passau University, Germany)
James P.G. Sterbenz (University of Kansas, Lawrence, USA, and Lancaster University, UK)

09:30-10:30 Keynote: "Making Self-Organizing Systems Secure"

Robbert van Renesse (Cornell University, USA)

10:30-11:00 Coffee Break

11:00-12:30 Session 1: "Dynamics of Structures and Unstructures Overlays"

- **The Challenges of Merging Two Similar Structured Overlays: A Tale of Two Networks;** Anwitaman Datta, Karl Aberer (Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland)
- **Self-protection in P2P Networks: Choosing the Right Neighbourhood;** Ivan Martinovic (Univ. of Kaiserslautern, Germany), Christof Leng (Darmstadt Univ. of Technology, Germany), Frank A. Zdarsky (Univ. of Kaiserslautern, Germany), Andreas Mauthe (Univ. of Lancaster, UK), Ralf Steinmetz (Darmstadt Univ. of Technology, Germany), Jens B. Schmitt (Univ. of Kaiserslautern, Germany)

12:30-13:30 Lunch

13:30-15:00 Panel Session: "Self-Organising Networks: Panacea or Pandora's Box?"

Panel Convener: James P.G. Sterbenz (Univ. of Kansas, Lawrence, USA, and Lancaster Univ., UK)

15:00-15:30 Coffee Break (with poster presentation)

15:30-17:30 Poster Session, EuroNGI Poster Session, and Open Discussion

17:30-18:30 Break

18:30-19:00 Bus to Conference Dinner

19:00-23:30 Conference Dinner at Neuburg Castle

Tuesday, September 19, 2006

09:00-10:30 Short Paper Session - Part 1

- **Ubiquitous Zone Networking Technologies for Multi-hop based Wireless Communications;** Namhi Kang, Ilkyun Park, Younghan Kim (Soongsil Univ. South Korea)
- **Proposal for Self-Organizing Information Distribution in Peer-to-Peer Networks;** Arne Handt (Free Univ. of Berlin, Germany)
- **Autonomic Security for Home Networks;** Mohamad Aljndi, Jean Leneutre (CNRS, ENST, Paris, France)
- **Hovering Data Clouds: A Decentralized and Self-Organizing Information System;** Axel Wegener (Univ. of Lübeck, Germany), Elad M. Schiller (Technical Univ. of Braunschweig, Germany), Horst Hellbrück (Univ. of Lübeck, Germany), Sandor P. Fekete (Technical Univ. of Braunschweig, Germany), Stefan Fischer (Univ. of Lübeck, Germany)
- **Defending Grids Against Intrusions;** Alexandre Schuler, Kleber Vieira, Carlos Becker Westphall, Carla Westphall (Federal Univ. of Santa Catarina, Brazil)
- **ORCA – Towards an Organic Robotic Control Architecture;** Florian Mösch, Marek Litza, Adam El Sayed Auf, Erik Maehle (Univ. of Lübeck, Germany), Karl E. Großpietsch (Fraunhofer Institute of Autonomous Intelligent Systems, St. Augustin, Germany), Werner Brockmann (Univ. of Osnabrück, Germany)

10:30-11:00 Coffee Break (with poster presentation)

11:00-13:00 Session 2: "Self-Organization in Peer-to-Peer Networks"

- **Modelling the Population Dynamics and the File Availability in a BitTorrent-like P2P System with Decreasing Peer Arrival Rate;** Riikka Susitaival, Samuli Aalto (Helsinki Univ. of Technology, Finland)

13:00-14:00 Lunch

14:00-15:20 Session 3: "Self-Organization in Wireless Environments"

- **Randomized Self-Stabilizing Algorithms for Wireless Sensor Networks;** Volker Turau, Christoph Weyer (Hamburg Univ. of Technology, Germany)
- **The Case for Virtualized Wireless Access Networks;** Frank A. Zdarsky, Ivan Martinovic, Jens B. Schmitt (Univ. of Kaiserslautern, Germany)

15:20-15:50 Coffee Break (with poster presentation)

15:50-17:50 Session 4: "Self-Organization in Distributed & GRID Computing"

- **Job Scheduling for Maximal Throughput in Autonomic Computing Systems;** Kevin Ross (UC Santa Cruz, USA), Nicholas Bambos (Stanford Univ., USA)
- **Investigating Global Behavior in Computing Grids** Kevin L. Mills, Christopher Dabrowski (National Institute of Standards and Technology, USA)
- **Using Decentralized Clustering for Task Allocation in Networks with Reconfigurable Helper Units** Daniel Merkle, Martin Middendorf, Alexander Scheidler (Univ. of Leipzig, Germany)

Wednesday, September 20, 2006

08:30-10:15 Session 5: "Self-Organization for Network Management and Routing"

- **Self-tuned Refresh Rate in a Swarm Intelligence Path Management System;** Poul E. Heegaard, Otto J. Wittner (Norwegian Univ. of Science and Technology, Norway)
- **Cross-layer Approach to Detect Data Packet Droppers in Mobile Ad-hoc Networks;** Djamel Djenouri (CERIST Center of research, Algeria), Nadjib Badache (USTHB Univ., Algeria)
- **On-demand Distributed Energy-Aware Routing Algorithms with Limited Route Length;** Cheolgi Kim (Information and Communications Univ., South Korea), Kisoo Chang (Samsung Advanced Institute of Technology, South Korea), Joongsoo Ma (Information and Communications Univ., South Korea)

10:15-10:45 Coffee Break

10:45-12:30 Session 6: "Self-Managing & Autonomic Computing"

- **Automatic Data Locality Optimization through Self-Optimization;** Rainer Buchty, Jie Tao, Wolfgang Karl (Univ. of Karlsruhe, Germany)
 - **A Bio-Inspired Approach for Self-Protecting an Organic Middleware with Artificial Antibodies;** Andreas Pietzowski, Benjamin Satzger, Wolfgang Trumler, Theo Ungerer (Univ. of Augsburg, Germany)
- Autonomic Management of Edge servers**
Mikael Desertot (Laboratoire LSR-IMAG, Grenoble, and Bull SA, Echirrolles, France), Clement Escoffier, Philippe Lalanda, Didier Donsez (Laboratoire LSR-IMAG, Grenoble, France)

12:30-13:00 Wrap-Up and Closing Session

13:00-14:00 Open

4:00-17:00 Tutorial Session: by Ralf Steinmetz

Thursday, September 21, 2006

09:00-17:00 GI/ITG/MMB/KuVS Technical Discussion on "Performance Modeling of Self-Organized Systems"
(see <http://iwsos.net.fmi.uni-passau.de/pmsos.html>)