

Autonomics 2009 Program

September 9, 2009 (Morning)

9:00-9:30 Welcome Message from the Chairs

9:30-10:30 Keynote Speech:

- **Raouf Boutaba:** On trust and implementability of autonomic networks: a management perspective

10:30-11:00 Break

11:00-12:00 Architectures & algorithms for self-* systems

- **A-OSGi: A framework to support the construction of autonomic OSGi-based applications**, J. Ferreira, J. Leitao, L. Rodrigues (IST/INESC-ID, Portugal)
- **A network-coding based event diffusion protocol for wireless mesh networks**, R. Beraldi, H. Alnuweiri (U. of Rome "La Sapienza", Italy)

12:00-14:00 Lunch

September 9, 2009 (Afternoon)

14:00-15:30 Programming & replication for autonomic systems

- **Expressing Adaptivity and Context Awareness in the ASSISTANT Programming Model**, C. Bertolli, G. Mencagli, D. Buono, M. Vanneschi (U. Of Pisa, Italy)
- **INVITED TALK: Leveraging the Scalability and Availability of Replicated Databases with Autonomic Capabilities**, Ricardo Jimenez-Peris ([Universidad Politécnica de Madrid](http://www.universidadpolitecnica.de/madrid), Spain)
- **INVITED TALK: Continuous Consensus and Common Knowledge**, Y. Moses (Technion, Israel)

15:30-16:00 Break

16:00-17:30 Models and metrics

- **Benchmarking Autonomic Systems from a Technical and an Economical Perspective**, X. Etchevers, T. Coupaye (Orange Labs - France Télécom Group, France)
- **An Online Adaptive Model for Location Prediction**, T. Anagnostopoulos, C. Anagnostopoulos, S. Hadjiefthymiades (U. of Athens, Greece)
- **INVITED TALK: Communication Patterns in Decentralized Learning Classifier Systems**, A. Scheidler and M. Middendorf (U. of Leipzig)

September 10, 2009 (Morning)

9:00-10:00 Keynote Speech

- **Stamatis Karnouskos:** The Autonomic Internet of Things in Future Real-World Enterprise Services

10:00-11:30 Break

10:30-12:00 Applications and systems

- **MPM: Map based Predictive Monitoring for Wireless Sensor Networks**, A. Ali, A. Khelil, F. Shaikh, N. Suri (TU Darmstadt, Germany)

- **Integrating Autonomic Grid Components and Process-Driven Business Applications**, T. Weigold, M. Aldinucci, M. Danelutto, V. Getov (IBM Research, Switzerland; Univ of Piza, Italy; **U. of Westminster, GB**)
- **INVITED TALK: P2P-enabling for Critical Infrastructure Protection**, A. Khelil, H. Ghani, D. Germanus and N. Suri (TU Darmstadt, Germany)

12:00-13:30 Lunch

September 10, 2009 (Afternoon)

ABSS Workshop

September 11, 2009 (Morning)

9:30-10:30 Middleware and Services

- **Using a Teleo-Reactive Programming Style to develop Self-healing Applications**, J. Hawthorne, R. Anthony (U. of Greenwich, GB)
- **INVITED TALK: Emergent Middleware: Rethinking Interoperability for Complex Systems**, P. Grace (U. of Lancaster, GB)

10:30-11:00 Break

11:00-12:30 Location- and context-awareness

- **Sensor Selection for IT Infrastructure Monitoring**, G. Paljak, I. Kocsis, Z. Egel, D. Toth, A. Pataricza (Budapest University of Technology and Economics, Hungary)
- **Context-Aware Self-Optimization in Multiparty Converged Mobile Environments**, J. Antoniou, C. Christophorou, A. Neto, S. Sargento, F. Pinto, N. Carapeto, T. Mota, J. Simoes, A. Pitsillides (University of Cyprus, Cyprus; Fraunhofer FOKUS, Germany)
- **Context Discovery in Mobile Environments: A Particle Swarm Optimization Approach**, C. Anagnostopoulos, S. Hadjiefthymiades (U. of Athens, Greece)