

Preliminary Program

8:15 am Opening Remarks

8:30 am System Dependability and Fault Tolerance

8:30 am “Failure Prediction for Autonomic Management of Networked Computer Systems with Availability Assurance”, Ziming Zhang and Song Fu, New Mexico Tech University.

9:00 am “J2EE Instrumentation for software aging root cause application component determination with AspectJ”, Javier Alonso, Josep L. Berral, Jordi Torres and Ricard Gavalda, Technical University of Catalonia.

9:30 -10:00 am Coffee Break.

10:00 am “Improving MapReduce Fault Tolerance in the Cloud”, Zheng Qin, Institute of High Performance Computing.

10:30 am Distributed Systems

10:30 am “Tackling Consistency Issues for Runtime Updating Distributed Systems”, Emiliano Tramontana and Giuseppe Pappalardo, University of Catania.

11:00 am “Achieving Information Dependability in Grids through GDS2”, Salvatore Distefano, Vincenzo Daniele Cunsolo, Antonio Puliafito and Marco Scarpa, University of Messina.

11:30 am “Evaluating Database-oriented Replication Schemes in Software Transactional Memory Systems”, Roberto Palmieri, Francesco Quaglia, Paolo Romano and Nuno Carvalho, Sapienza Universita' di Roma.

12:00 pm Keynote Speech

12:00 pm “Recent Results in Checkpointing and Failure Recovery in Distributed Systems and Wireless Networks”, Mukesh Singhal, Department of Computer Science, University of Kentucky.

1:00 pm Lunch Break

2:00 pm Reliable Storage

2:00 pm “Optimizing RAID for Long Term Data Archives”, Henning Klein and Joerg Keller, Fujitsu Technology Solutions.

2:30 pm Networks

2:30 pm “Experimental Dependability Evaluation of Decentralized Service Discovery in Unreliable Networks”, Andreas Dittrich and Felix Salfner, Humboldt-Universität zu Berlin.

3:00 pm “Analysis of Network Topologies and Fault-Tolerant Routing Algorithms using Binary Decision Diagrams”, Andreas Doering, IBM Research – Zurich.

3:30 pm -4:00 pm Coffee Break

4:00 pm “Incentive Mechanisms in Peer-to-Peer Networks”, Pedro da Silva Rodrigues, Carlos Ribeiro and Luis Veiga, Technical University of Lisbon.

4:30 pm “Lessons Learned During the Implementation of the BVR Wireless Sensor Network Protocol on SunSPOTs”, Ralph Robert Erdt and Martin Gergeleit, Hochschule RheinMain.

5:00 pm Concluding remarks