Friday, March 30, 2007

8.15 Opening Remarks

8.30 – 10.00 Session I: Dependability Modelling and Analysis of Distributed Systems

A Framework for Experimental Validation and Performance Evaluation in Fault Tolerant Distributed Systems
Hein Meling (University of Stavanger, Norway)

Dependability Modeling and Analysis of Dynamic Systems
Salvatore Distefano and Antonio Puliafito (University of Messina, Italy)

A Combinatorial Analysis of Distance Reliability in Star Network
Xiaolong Wu, Shahram Latifi and Yingtao Jiang (University of Nevada, Las Vegas, USA)

10.00 – 10.30 Coffee Break

10.30 – 11.30 Keynote Session

Trusted Peer-to-Peer and Grid Computing
Prof. Kai Hwang (University of Southern California, USA)

11.30 – 13.30 Lunch Break

13.30 – 15.00 Session II: Fault-Tolerant Parallel and Distributed Computing

ABARIS: An Adaptable Fault Detection/Recovery Component Framework for MPIs
Hideyuki Jitsumoto, Toshio Endo and Satoshi Matsuoka (Tokyo Institute of Technology, Japan)

Self-Adapting Application Level Fault Tolerance for Parallel and Distributed Computing
Zizhong Chen, Ming Yang, Guillermo Francia (Jacksonville State University) and Jack Dongarra (University of Tennessee, Knoxville, USA)

The Design and Implementation of Checkpoint/Restart Process Fault Tolerance for Open MPI
Joshua Hursey, Timothy Mattox, Andrew Lumsdaine (Indiana University) and Jeffrey Squyres (Cisco Systems, Inc.)
15.00 – 15.30 Launch Break

15:30 – 17.00  Session III: Dependability Protocols and Algorithms

Fault-Tolerant Earliest-Deadline-First Scheduling Algorithm in Uniprocessor Embedded Systems
Hakem Beitollahi and Geert Deconinck (Katholieke Universiteit Leuven, Belgium)

Distributed Interval Voting with Node Failures of Various Types
Behrooz Parhami (University of California, Santa Barbara, USA)

Intelligent Dynamic Network Reconfiguration
Juan Ramon Acosta and Dimiter Avresky (North Eastern University, Massachusetts, USA)

17.00 – 18.30  Session IV: Dependable Distributed Storage Systems

IntraCache: An Interest group-based P2P Web Caching System
Huifang Cheng, Zhimin Gu and Junchang Ma (Beijing Institute of Technology, China)

Availability/Consistency Balancing Replication Model
Johannes Osrael, Lorenz Froihofer and Karl Goeschka (Vienna University of Technology, Austria)

Combining Compression, Encryption and Fault-tolerant Coding for Distributed Storage
Peter Sobe (University of Luebeck, Germany) and Kathrin Peter (Zuse Institute Berlin, Germany)

18.30  Concluding Remarks