13th IEEE Workshop on
Dependable Parallel, Distributed and Network-Centric Systems
DPDNS'08
Miami, Florida, USA

Held in conjunction with the
22st IEEE International Parallel & Distributed Processing Symposium

Friday, April 18, 2008

8.00 – 8.05 Opening Remarks

8.05 – 8.45 Keynote Session

Achieving and Assuring High Availability
Prof. Kishor Trivedi (Duke University, USA)

8.45 – 10.00 Session I: Fault-Tolerant Parallel and Distributed Computing

Fault-Tolerant Static Scheduling for Grids
Bernhard Fechner, Udo Hönig, Jörg Keller and Wolfram Schiffmann (FernUniversitaet Hagen, Germany)

Fault Tolerant Practices on Network Processors for Dependable Network Processing
Yan Luo and Jie Fan (University of Massachusetts Lowell, USA)

Investigating Fault Tolerant Computing Systems Reliability
Salvatore Distefano (University of Messina, Italy)

10.00 – 10.30 Coffee Break

10.30 – 11.45 Session II: Dependability Modelling and Analysis of Distributed Systems

An Integrated Approach for Reliability and Dependability of Wireless Mesh Networks
Georg Lukas , Andre Herms, Svilen Ivanov and Edgar Nett (University of Magdeburg, Germany)

Accuracy vs Efficiency of Hyper-exponential Approximations of the Response Time Distributions of MMPP/M/1 Queues
Paolo Romano, Bruno Ciciani, Andrea Santoro and Francesco Quaglia (University of Roma - La Sapienza, Italy)

Improving Data Availability for a Cluster File System through Replication
Jin Xiong, Jianyu Li, Rongfeng Tang (Chinese Academy of Sciences, China) and Yiming Hu (University of Cincinnati, USA)

11.45 – 13.45 Lunch Break

13.45 – 15.00 Session III: Network Dependability and Security

An Overlay Protection Layer against Denial-of-Service Attacks
Hakem Beitollahi and Geert Deconinck (Katholieke Universiteit Leuven, Belgium)

Rate Avalanche: The Performance Degradation in Multi-rate 802.11 WLANs
Liqiang Zhang and Yu-Jen Cheng (Indiana University, USA) and Xiaobo Zhou (University of Colorado, USA)

Efficient and Dependable Overlay Networks
Jawwad Shamsi and Monica Brockmeyer (Wayne State University, USA)

15.00 – 15.30 Coffee Break

15.30 – 16.45 Session IV: Dependability Protocols and Algorithms

Extending Algorithm-Based Fault Tolerance to Tolerate Fail-Stop Failures in High Performance Distributed Environments
Zizhong Chen (Jacksonville State University, USA)

State Management for Distributed Python Applications
Gregory Benson (University of San Francisco, USA)

A Fault-tolerant System for Java and CORBA based Applications
Atul Kumar (Accenture Technology Labs, India), Pankaj Jalote and Deepak Gupta (Indian Institute of Technology Kanpur, India)

16.45 Concluding Remarks