

Message from the Program Committee

Welcome to the 11th IEEE Workshop on Dependable Parallel, Distributed and Network-Centric Systems DPDNS'06 held in conjunction with the 20th International Parallel and Distributed Processing Symposium IPDPS 2006 in Rhodes Island, Greece!

In continuation of the previous workshop series on Fault-Tolerant Parallel and Distributed Systems FTPDS this is the eleventh event in this line. The area of the workshop is getting more and more important as parallel, distributed and network-centric systems are being used in all kinds of critical applications where failures have high economical impact or even can threaten human lives. Increasingly large and complex parallel, distributed and network-centric computing systems provide unique challenges to the researchers in dependable computing, especially because of the high failure rates intrinsic to these systems. The goal of this workshop is to provide a forum for researchers and practitioners to discuss all aspects of dependability including reliability, availability, safety and security for parallel, distributed and network-centric systems.

Topics of interest of the workshop include

- Dependable parallel, distributed and network-centric systems
- High availability in parallel, distributed and network-centric computing systems
- Safety and security in distributed and network-centric computing systems
- Dependable high-speed wide, local, and system area networks
- Dependable mobile computing
- Dependable clusters of workstations and PCs
- Dependable internet servers
- Dependability in distributed embedded systems
- Using COTS for designing dependable network-centric computing systems
- Dependable protocols for distributed and network-centric systems
- Protocol verification and validation
- Practical experiences and prototypes
- Dependability evaluation of parallel, distributed and network-centric systems

- Dependable quantum computing
- Dependable organic computing
- Dependable biocomputing

In accordance with this development, this year's program presents various approaches for dealing with dependability issues, especially for web- or cluster-oriented computing and for the strongly expanding field of wireless networks.

This year we have received 20 submissions from 8 countries all around the world. The papers were sent out to three PC members and some external reviewers. For the selection process there were at least two reviews per paper. Based on them 11 papers from 5 countries were selected for publication. They are grouped into four sessions dealing with fault-tolerant parallel hardware architectures, dependable wireless networks, dependable distributed software systems, and modelling of dependable systems. One additional keynote talk completes the program.

We would like to take the opportunity to acknowledge the effort and help from external reviewers and thank all authors for their valuable contributions, and to express our thanks to the IPDPS 2006 organizers, especially to the Workshop Co-Chairs Alan Sussman and Yuanyuan Yang for their inputs and support of DPDNS'06. Moreover, we want to acknowledge the help of Markus Goenne (University of Luebeck) for his assistance in all organizational matters.

We wish all participants a successful workshop with lively and fruitful discussions!

On behalf of the Program Committee

Karl-Erwin Grosspietsch
Fraunhofer Institute of Autonomous Intelligent
Systems

Program Chair

St. Augustin, Germany, January 2006

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