

Workshop Description

Increasingly large 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. While commercial and scientific companies share the need for massive throughput and low latency, dependability of service is also a concern. In addition to providing uninterrupted service, commercial systems must be free from data corruption. Achieving dependability in highly scalable parallel, distributed and network-centric computing poses a considerable challenge.

The goal of this workshop is to provide a forum for researchers and practitioners to discuss issues related to these issues of fault-tolerant parallel, distributed and network-centric systems. All aspects of design, theory and realization of parallel, distributed systems and network-centric systems are of interest.

Topics of interest include, but are not limited to:

- Dependable parallel, distributed and network-centric systems
- Scalable uninterruptible computing in distributed and network-centric computing systems
- Fault-tolerant protocols for distributed and network-centric systems
- Fault tolerance in clusters of workstations and PCs
- Fault-tolerant interconnection networks
- Fault-tolerant parallel programming
- Using COTS for designing dependable network-centric computing systems
- Dependable high-speed wide, local, and system area networks
- Dependable mobile computing
- Reliable group communications protocols
- Adaptive routing
- Dependable Internet servers
- Protocol verification and validation
- Practical experiences and prototypes
- Dependability evaluation of fault-tolerant parallel, distributed and network-centric systems
- Dependable quantum computing
- Dependable biocomputing

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