

TOPIC 7 - DISTRIBUTED SYSTEMS AND ALGORITHMS

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DESCRIPTION

Parallel and distributed computing is heavily dependent on and interacting with the developments and challenges concerning distributed systems, such as load balancing, asynchrony, failures, malicious and selfish behavior, long latencies, network partitions, disconnected operations and heterogeneity. This track of Euro-Par provides a forum for both theoretical and practical research, of interest to both academia and industry, on distributed computing, distributed algorithms, distributed systems, distributed computing models, distributed data structures, and parallel processing on distributed systems, in particular in relation to efficient high performance computing.

Focus

- Algorithms and datastructures for distributed systems
- Theory, design and practice of distributed algorithms and data structures
- Analysis of the behavior of distributed systems and algorithms
- Distributed operating systems
- Resource and service discovery
- Resource sharing in distributed systems
- Distributed fault tolerance and self-stabilization
- Scalability, concurrency and performance of distributed systems
- Transactional memory
- Self-organized and self-adjusting distributed systems
- Collaborative computing
- Modeling distributed environments
- Support for parallelism in distributed systems
- Distributed storage and distributed data processing
- Dependable, secure and privacy-preserving distributed systems

