



### European Conference on Parallel Computing

#### Topic 8: Distributed Systems and Algorithms

##### Description

Distributed computing is everywhere. It is based on different forms of distributed systems, for example, grids and peer-to-peer, which have achieved some level of maturity; and new ones, such as web services and service architectures.

Parallel computing is increasingly exposed to the development and challenges of distributed systems, such as the lack of load balance, asynchrony, long latencies, network partition, failures, disconnected operation, heterogeneity and protocol standardization. This Euro-Par topic provides a forum for research and practice, of interest to both academia and industry, about distributed systems, distributed computing, distributed algorithms, and parallel processing on distributed systems. We encourage submission of papers across the whole area, with emphasis on the following:

##### Focus

- Design and practice of distributed algorithms
- Analysis of the behaviour of distributed systems and algorithms
- Distributed operating systems and databases
- Parallel processing on distributed systems
- Resource and service discovery
- Resource sharing and load balancing in distributed systems
- Distributed fault-tolerance
- Security in distributed systems
- Scalability, concurrency and performance in distributed systems
- Middleware for parallel computations
- Web services
- Interoperability and standards

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