



European Conference on Parallel Computing

Topic 14: Mobile and Ubiquitous Computing

Description

The rapid growth of small, portable and powerful computing devices along with wireless, mobile and sensor communication technologies offers tremendous opportunities for wireless networking and mobile/pervasive computing applications and services. This topic will deal with cutting-edge research in various aspects of mobile computing systems including architectures, algorithms, networks, protocols, applications, services, and data management. The aim is to bring together computer scientists and engineers from academics and industry working in these exciting areas to share their ideas and results with their peers.

Focus

- Mobile/wireless computing and networking infrastructure
- Mobility and Resource management
- Wireless multimedia and QoS
- Ad-hoc and personal area networks
- Wireless LANs
- Pervasive/wearable/context-aware computing
- Smart devices and smart spaces
- Intelligent environments
- Sensors and actuators
- Location-aware services and applications
- User interfaces and interaction models
- Security and privacy in mobile systems
- Experiences in the implementation of parallel computing algorithms in mobile/sensor nodes
- Data management for mobile and ubiquitous computing
- Grid support for mobile and ubiquitous computing
- Adaptation and personalization of mobile applications
- Context awareness (maybe this can be combined with "location-aware services")

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