



Call For Papers



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AUTONOMICS

First International Conference on
Autonomic Computing and
Communication Systems

www.autonomics-conference.eu

28-30 October 2007, Rome (Italy)



In recent years, a plethora of electronic devices embedded into everyday objects and able to interface with the surrounding environment have emerged, foreshadowing the deployment of pervasive context-aware services. Similar to the Internet, these trends will revolutionize existing paradigms of communication, networking, and computing. In particular, the complexity hidden in such dynamic large-scale networks and services calls for self-management and autonomicity as a necessary condition for obtaining purposeful systems.

The challenges posed by such a vision cover a wide range of disciplines and sciences, including computing, communication, distributed systems, and control systems. Further, these challenges call for a new, integrated and multidisciplinary approach to pervasive computing and communication environments, giving rise to a new converged science, able to work at the junction of systems, computing and communication sciences. The AUTONOMICS conference provides an international forum driving the emergent science of autonomic systems, bringing together research communities in communication and computing, promoting cross-fertilization among the different disciplines involved.

Scope: The primary research challenges faced are the communication, design, programming, deployment, use, and fundamental limits of autonomic, pervasive, context-aware systems running on top of dynamic, possibly large-scale, distributed systems. Authors are invited to submit papers to Autonomics'07 reporting on original research related to the design, implementation, analysis, evaluation, and deployment of autonomic systems. The conference intends to attract attendees with diverse backgrounds. We solicit papers in autonomic, pervasive, and context-aware systems. Topics of interest include, but are not limited to:

- Theoretical foundations of autonomic systems
- Models and metrics
- Energy-efficient algorithms
- Programming paradigms
- Middleware for pervasive systems
- Software architectures and toolkits
- Positioning and tracking technologies
- Architectures & algorithms for self-* systems
- Privacy, security, dynamic trust and social issues
- Location- and context-awareness
- Tools, languages and platforms
- Applications and systems
- Resource, network and service (self) management
- Enabling technologies for pervasive environments

Submissions will be judged on originality, significance, interest, clarity, relevance, and correctness.

Important Dates

Full paper due: April 18, 2007

Notification of acceptance: July 22, 2007

Final version due: September 5, 2007

Submission Instructions

Authors are invited to submit full papers of up to 10 pages in ACM conference proceedings format through **COCUS** (<http://cocus.create-net.it>)