Coordination Models, Languages and Applications

Special Track of the 28th ACM Symposium on Applied Computing (SAC'13)

Institute of Engineering of the Polytechnic Institute of Coimbra (ISEC-IPC) - Coimbra, Portugal

March 18-22, 2013

Aim

Building on the success of the fourteenth previous editions (1998-2012), a special track on coordination models, languages and applications will be held at SAC 2013. Over the last decade, we have witnessed the emergence of models, formalisms and mechanisms to describe distributed computations and systems based on the concept of coordination.
The purpose of a coordination model is to enable the integration of a number of possibly heterogeneous components (processes, objects, agents, services) in such a way that the resulting ensemble can execute as a whole, forming a distributed software system with desired characteristics and functionalities.
This is done in terms of coordination abstractions, languages, algorithms, mechanisms, and middleware specifically focused on the management of component interaction.

Important Dates

Paper submission: September 21, 2012
Author notification: November 10, 2012
Camera-ready copy: November 30, 2012

Topics

- Novel models, languages, programming, and implementation techniques
- Internet, Web, and pervasive computing systems coordination
- Coordination of multi-agent systems
- Languages for service description and composition
- Models, frameworks, and tools for Group Decision Making
- Cooperative Information Systems
- Software architectures and software engineering techniques
- Configuration and Architecture Description Languages
- Middleware platforms
- Self-organizing and nature-inspired coordination
- Coordination technologies, systems, and infrastructures
- Relationships with other computational models
- Formal aspects (semantics, reasoning, verification)
- Coordination in Service-Oriented Architectures, Web Service technologies and Pervasive Computing
- Practical systems or novel applications aimed at supporting coordination

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Organization

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