Call For Contributions: Papers, Experience Reports & Panel Proposals

**COORDINATION 2011**

13th International Conference on Coordination Models and Languages

6 - 8 June 2011, Reykjavik, Iceland

http://discotec.ru.is/

COORDINATION is the premier forum for publishing research results and experience reports on software technologies for collaboration and coordination in concurrent and distributed systems. Its distinctive feature is the emphasis on high-level abstractions that capture interaction patterns manifest at all levels of the software architecture and extending into the realm of the end-user domain. Social networking, Internet technologies, wireless communication, and inexpensive multicore processors altered fundamentally the computing milieu and the way one thinks about the development of modern software systems. Coordination techniques seek to enhance our ability to develop software that is responsive to emerging societal demands and changing application needs and exploits effectively recent advances in computing and communication technology.

Coordination 2011 seeks high-quality contributions on the usage, study, design and implementation of languages, models and techniques for coordination in distributed, concurrent, and multicore software systems. The focus is on languages, formalisms, models, middleware, patterns, and algorithms that conceptually separate behavior from interaction. Research results should demonstrate an ability to increase modularity, simplify reasoning, and ultimately enhance the software development process. The conference is concerned with the design and implementation of models that allow compositional construction of large-scale concurrent and distributed systems. Both practical and foundational perspectives are of interest.

Given the increasing importance of concurrency and distribution in almost every domain of our existence, the organizers of Coordination 2011 are keen to provide a forum for studies that address practical concerns and industrial grade solutions, e.g., the introduction of concurrency and distribution concepts to novel domains, comparative evaluations of programming models on important problems, and the adoption of domain-specific languages. ***Experience reports*** should describe lessons learned from the application of proposed models and techniques to problems in the real world.

Coordination 2011 also seeks proposals for ***discussion panels***. Proposed topics are expected to address new and exciting subjects that challenge

fundamental assumptions or open new directions for creative and high-impact research.

**TOPICS OF INTEREST**

COORDINATION 2011 topics of interest include:

PROGRAMMING ABSTRACTIONS AND LANGUAGES: Design and implementation of languages and middleware related to multicore programming, stream programming, data parallel programming, event-driven programming, web programming, reactive programming, ...

COORDINATION MODELS AND PARADIGMS: Service composition and orchestration, tuple spaces, publish-subscribe systems, event processing, workflow management, ...

SOFTWARE MANAGEMENT AND SOFTWARE ENGINEERING: Component and module systems for distributed software, dynamic software evolution and update technologies, configuration and deployment architectures, multicore and distributed patterns, ...

SPECIFICATION AND VERIFICATION: Modeling and analysis of issues related to security, dependability, resource-awareness, real time, ...

FOUNDATIONS AND TYPES: Calculi, process models, type systems for concurrency and distribution, component conformance, contracts, ...

SOFTWARE FOR DECENTRALIZED TECHNOLOGIES: P2P frameworks, nomadic networks, mobile ad-hoc networks, sensor networks, RFID-technology, vehicle-area networks, body-area networks, Internet-of-Things, ...

EXPERIENCE REPORTS: Case studies and industrial experiences with coordination in multicore and/or distributed development, business process modeling, e-commerce, app-development, web applications, ...

COORDINATION FOR HUMANITY: Applications of coordination models to people-centric sensing, ambient intelligence, context-aware systems, Internet-of-Things for sustainability, ...

**COMMITTEE**

PC-CHAIRS
Wolfgang De Meuter (Vrije Universiteit Brussel, Belgium)
Gruia-Catalin Roman (Washington University in Saint Louis, USA)

PROGRAM COMMITTEE
to be confirmed

## IMPORTANT DATES

| | |
|---|---|
| Abstract Submission: | 7 February 2011 |
| Paper Submission: | 11 February 2011 |
| Author Notification: | 21 March 2011 |
| Camera-ready Version: | 1 April 2011 |
| Early Registration: | 15 April 2011 |
| Conference: | 6-8 June 2011 |
| Workshops: | 9 June 2011 |

## SUBMISSION GUIDELINES

**Technical Papers:** All research and experience papers must report on original unpublished work and cannot be under review for publication elsewhere. Contributions should be submitted electronically as postscript or PDF, using the Springer LNCS style. Papers exceeding 15 pages in length will be rejected without a review. Each paper will undergo a thorough evaluation and the conference proceedings will be published by Springer-Verlag in the LNCS series. Proceedings will be made available at the conference. Submission is a firm commitment that at least one of the authors will attend the conference, if the paper is accepted.

**Panel Proposals:** Panel proposals should include a description of the topic addressed by the panel, the name of the panel moderator, and a prospective list of panel members. Panel proposals should not exceed 2 pages.