

FOCLASA 2012

11th International Workshop on Foundations of Coordination Languages and Self Adaptation

A Satellite Workshop of CONCUR 2012

FOCLASA 2012 is a satellite workshop of the 23rd International Conference on Concurrency Theory. The goal is to provide a venue where researchers and practitioners on the topics given below can meet, exchange ideas and problems, identify some of the key and fundamental issues related to coordination languages and self adaptive systems, explore together and disseminate solutions.

<http://foclasa.lcc.uma.es>

September 8th, 2012, Newcastle upon Tyne, UK

Abstract submission

June 8th, 2012

Paper submission

June 15th, 2012

Notification

July 9nd, 2012

Final version

July 25th, 2012

Topics of interest

Topics of interest include (but are not limited to):

- Theoretical models for component and service coordination, service composition and concurrent system modeling
- Applications and usability studies for the aforementioned theoretical models, interaction and coordination challenges in various application domains
- Languages and specification protocols for component and service interaction, their semantics, expressiveness, validation and verification, type checking, static and dynamic analysis
- "Software as a service" models and dynamic software architectures, like mobile agent-based systems, self-organizing, self-adaptive and self-reconfigurable applications, cloud computing, etc.
- Tools and environments for the development of concurrent, customizable, self-monitoring, self-adaptive and self-reconfigurable applications
- Algorithms, mathematical models and realization frameworks for quality-of-service observation, storage, history-based analysis in self-adaptive systems (queuing models, load balancing, fault-tolerance analysis, machine learning systems)

In particular, practice, experience and methodologies from the following areas are solicited as well:

- Business process modeling
- Component-based systems
- Large-scale distributed systems
- Peer-to-peer systems
- Cloud computing
- Grid computing
- Multi-agent systems
- Service-oriented computing

Invited speaker

Sebastian Uchitel (Imperial College London)

"Controller Synthesis for Architecture Level Adaptation"

Paper Submission

Submissions must describe authors' original research work and their results. Description of work-in-progress with concrete results is also encouraged. The contributions should not exceed 15 pages formatted according to the style of the Electronic Proceedings in Theoretical Computer Science (EPTCS), and should be submitted as Portable Document Format (PDF) files using the EasyChair submission site:

- <http://www.easychair.org/conferences/?conf=foclasa2012>

Submitting an abstract does not put any obligation on the authors to submit a full paper. Abstracts without an accompanying full paper by the

paper submission deadline are automatically considered withdrawn. The authors are, however, encouraged to explicitly withdraw their abstract, if they decide not to submit a full paper. All submissions will be reviewed by an international program committee who will make a selection among the submissions based on the novelty, soundness and applicability of the presented ideas and results. Concurrent submission to other venues (conferences, workshops or journal) and submission of papers under consideration elsewhere are not allowed. A printed version of the proceedings will be distributed among participants during the workshop. The proceedings of the workshop will be published as a volume in the Electronic Proceedings in Theoretical Computer Science (EPTCS) series. Participants will give a presentation of their papers in twenty minutes, followed by a ten-minute round of questions and discussion on participants' work. Following the tradition of the past editions, we plan to have a **special issue of an international scientific journal** devoted to FOCLASA 2012. Selected participants will be invited to submit an extended version of their papers after the workshop. These extended versions will be reviewed by an international program committee, which will decide on their final publication on the special issue. In the last few editions of FOCLASA, a special issue of Science of Computer Programming has been dedicated to this workshop.

Organisation

Program committee chairs:

- Natallia Kokash, Leiden University, The Netherlands
- António Ravara, New University of Lisbon, Portugal

Program committee:

- Bernhard Beckert, Karlsruhe Institute of Technology, Germany
- Martin Berger, University of Sussex, UK
- Carlos Canal, University of Malaga, Spain
- Holger Giese, University of Potsdam, Germany
- Ludovic Henrio, INRIA Sophia Antipolis, France
- Thomas Hildebrandt, IT University of Copenhagen, Denmark
- Paola Inverardi, Università dell'Aquila, Italy
- Zhiming Liu, United Nations University, China
- Antónia Lopes, University of Lisbon, Portugal
- MohammadReza Mousavi, Eindhoven University of Technology, The Netherlands
- José Proença, Katholieke Universiteit Leuven, Belgium (publicity chair)
- Pascal Poizat, University of Evry, France
- António Ravara, New University of Lisbon, Portugal
- Carolyn Talcott, SRI International, USA
- Francesco Tiezzi, IMT Lucca Institute for Advanced Studies, Italy
- Marjan Sirjani, Reykjavik University, Iceland
- Mirko Viroli, University of Bologna, Italy

Steering committee:

- Farhad Arbab, CWI, The Netherlands
- António Brogi, University of Pisa, Italy
- Carlos Canal, University of Málaga, Spain
- Jean-Marie Jacquet, University of Namur, Belgium
- Ernesto Pimentel, University of Málaga, Spain
- Gwen Salaün, Grenoble INP - INRIA Grenoble - LIG, France

Contacts (PC Chairs):

- nkokash@liacs.nl
- aravara@fct.unl.pt