

FOCLASA 2014

13th International Workshop on Foundations of Coordination Languages and Self-Adaptive Systems

6 September 2014, Rome (Italy), in conjunction with CONCUR 2014

FOCLASA 2014 (<http://foclasa.lcc.uma.es/>) is a workshop collocated with the 25th International Conference on Concurrency Theory (CONCUR 2014, <http://www.concur2014.org/>). The goal of the FOCLASA workshop is to put together researchers and practitioners to share and identify common problems, and to devise general solutions in the context of coordination languages and self-adaptive systems.

Important Dates

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|------------------|--------------|----------------------------------|
| 11 June 2014 | 18 June 2014 | Deadline for abstract submission |
| 15 June 2014 | 22 June 2014 | Deadline for paper submission |
| 13 July 2014 | | Notifications |
| 23 July 2014 | | Final versions |
| 6 September 2014 | | Workshop in Rome |

Topics of Interest

- Theoretical models and frameworks for component and service coordination, service composition, service adaptation and concurrent system modeling.
- Applications and usability studies for the aforementioned theoretical models, interaction and coordination challenges in decentralized self-adaptive systems and 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 (e.g., cloud computing) and dynamic software architectures, such as self-adaptive and self-organizing systems.
- Tools and environments for the development of concurrent and customizable self-monitoring, self-adaptive and self-organizing 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).
- Formal methods for self-adaptive systems, stochastic modeling and analysis, reasoning under uncertainty, run-time synthesis.

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

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

Survey works analysing and comparing literature on the topics of FOCLASA are also welcome.

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 in the EPTCS style (<http://style.eptcs.org/>) and should be submitted as Portable Document Format (PDF) files using the EasyChair submission site:

<http://www.easychair.org/conferences/?conf=foclasa2014>

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 separate volume. 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 2014. 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.

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