

FOCLASA 2015

14th International Workshop on Foundations of Coordination Languages and Self-Adaptive Systems

5 September 2015, Madrid (Spain), in conjunction with CONCUR 2015

FOCLASA 2015 (<http://foclasa.lcc.uma.es/>) is a workshop collocated with the 25th International Conference on Concurrency Theory (CONCUR 2015 - <http://mafalda.fdi.ucm.es/concur2015/>). 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

17 June 2015	Deadline for abstract submission
19 June 2015	Deadline for paper submission
20 July 2015	Notifications
3 August 2015	Final versions
5 September 2015	Workshop in Madrid

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.
- Service composition and coordination for Future Internet applications, service orchestration and choreographies, related theories and methods, and possible model-driven development approaches.
- 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
- Networked embedded 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=foclasa2015>

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 submissions to WS-FM/BEAT (a CONCUR co-located event - International Symposium on Web Services, Formal Methods and Behavioural Types - <http://www.projects.science.uu.nl/WSFM-BEAT2015/index.php>) and FOCLASA are allowed for those papers that may potentially enhance both venues. Authors of such double submissions should identify them to the Program Chairs at the time of submission (by choosing the "Regular paper submitted also to WS-FM/BEAT" category in the FOCLASA EasyChair site). Reviews may be shared between WS-FM/BEAT and FOCLASA. Submissions accepted by WS-FM/BEAT will be considered automatically withdrawn from FOCLASA. 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 2015. 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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