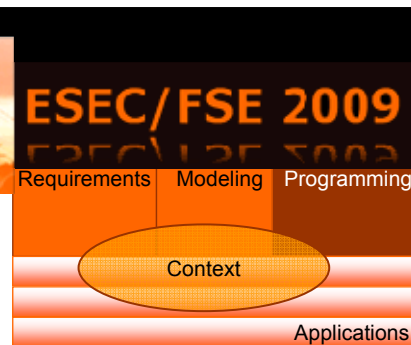# Context-Aware Software Technology and Applications (CASTA 2009)

Workshop co-located with ESEC/FSE 2009, Amsterdam, The Netherlands

Motivation

Context awareness is the notion of computer systems that dynamically adapt their behavior to a changing environment. Such applications are useful in many situations ranging from general human-computer interaction over business process execution to healthcare or logistics. However, mainstream programming languages and tools do not offer dedicated support for adaptive properties. Additionally, as context awareness is an application requirement, it should already be addressed at the modeling level.

Recent developments in dynamic programming languages enable context awareness technically, but the application-oriented communities have had little opportunity to benefit from these insights. Vice versa, certain application requirements concerning context could probably be met better by specially-tailored programming and modeling techniques.

This workshop attempts to bring together researchers from the disparate communities to exchange ideas, establish a common research program, and foster new collaborations.

Topics

The workshop is intended to be dynamic and interactive. We especially welcome presentations that bridge communities, are provocative, or offer live demonstrations of novel context-aware applications or technologies. Contributions are invited related to any aspect of context awareness, including:

1) **Requirements engineering** for context-aware applications

2) **Modeling** context and context-aware applications, e.g.
   - User modeling and adaptability
   - Context-aware business processes
   - Semantics of computational models for context-dependent behavior

3) **Programming** languages and mechanisms to support dynamic adaptation to context

4) Context-aware **applications**, including:
   - Ubiquitous Computing
   - Healthcare, supply chain management, logistics
   - Interactive Systems

Submissions

We anticipate two categories of submissions:

- **Application papers** should bring insight into situations where context-aware real-world software systems are needed, the techniques used to design or implement such systems and the problems arising in using these techniques.

- **Technology papers** should sketch novel design or implementation approaches to achieve context awareness in software systems.

We expect original work that has not been previously published nor is under consideration for publication elsewhere. All submissions are limited to 4 pages in length in ACM proceedings format. Papers must be submitted as PDF through the EasyChair submission system (http://casta.unibe.ch/).

Accepted papers will be published through the ACM digital library. A post-proceedings containing extended versions of selected papers is planned. (Venue to be decided.)

Important Dates

Submission: May 1, 2009 ● **Notification**: June 1, 2009 ● **Camera-ready**: June 26, 2009 ● **Hard deadlines!**

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