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**Important Dates**

Submission deadline:  
**Friday, May 18th**  
Notification of acceptance:  
**Friday, June 8th**  
ECOOP'07 Early Registration Date:  
**Friday, June 15th**  
Workshop at ECOOP:  
**Monday, July 30th**

**Motivation and Goals**

Adaptability is emerging as a critical enabling capability for many applications, particularly for environment monitoring, disaster management and other applications deployed in dynamically changing environments. Such applications have to reconfigure themselves according to fluctuations in their environment. The unpredictability of changes in the environments and their requirements pose new challenges to Software Engineering. Current software development approaches specify the functionality of the system at design-time. Such approaches are not sufficiently adequate to develop systems that dynamically adapt to environment fluctuations. As a result, innovative alternatives that take into account the specification of behaviour and functionality during the execution are required. However, dynamic adaptation can lead to emergent inappropriate unpredictable behaviour. The goal of this workshop is to explore how to develop appropriate model-driven approaches to model, analyze, and validate the volatile properties of the behaviour of adaptive systems and its environments.

Relevant topics of interest include, but are not limited to:

- Formal notations for modeling, analysing, and validating adaptive systems
- Managing and modelling the dynamic variability intrinsic in the structure and behaviour of adaptive systems and their environments
- The relevance and suitability of different model-driven approaches to monitoring and managing systems during runtime.
- Compatibility (or tension) between different model-driven approaches.
- Experience related to the use of run-time models to adapt software systems.
- Model-driven design for adaptability

**Keywords:** Adaptation, Model Driven Engineering (MDE), Dynamic Variability, Variability Management, Runtime Models

**Workshop Format**

We are interested in submissions from both academia and industry on the topics described above. Both practical experience and position papers are welcome. You are invited to apply for attendance by sending a 2 to 5 page position paper (using 11 or 12 pt fonts) in PDF or PS. Submissions will be reviewed by the organizers. The authors will be notified about acceptance before the ECOOP'2007 early registration deadline. A primary deliverable of the workshop is a report that clearly outlines (1) the research issues and challenges in terms of specific research problems in the area, and (2) a synopsis of existing model-based solutions that target some well-defined aspect of monitoring and managing the execution of systems.

**Related Events:**

The first incarnation of this workshop was held at MODELS 2006 in Italy. It was attended by at least twenty persons. During that workshop key research questions were identified and discussed. The ECOOP workshop will use the research questions identified during the MODELS workshop as a basis for soliciting papers and as a starting point for further discussions. Bringing the workshop to an ECOOP audience will help broaden the discussions to cover issues related to the integration of modelling techniques with other techniques typically covered at ECOOP (e.g., component-based and reflection techniques).

**Proceedings:** The proceedings of the workshop (set of reviewed papers) will be published in IEEE Distributed Systems online