

35th EUROMICRO Conference on
Software Engineering and Advanced Applications (SEAA)
Patras, Greece, August 27-29, 2009
<http://seaa2009.vtt.fi/>

Special Session on “Model-Driven Engineering”

The idea advocated by Model Driven Engineering (MDE) is to develop systems starting from models, at different levels of abstraction, that are capable of expressing domain-specific concepts in a way that is at the same time precise, intuitive, and machine-processable, so allowing automated manipulation and transformation. The potential benefits of adopting a model-driven development approach are many: quicker development and reduced costs, obtained through automation and extensive reuse, increased overall quality, easier evolution. Because of these (and other) factors, the popularity of MDE has steadily increased over the years, reaching various engineering disciplines, beside software development. The efforts of these years have resulted in the invention of concepts, languages, and tools for the definition, analysis, transformation, and extension of domain-specific modeling languages and of general-purpose modeling language standards. Despite MDE has progressed significantly, still it presents a number of open challenges and unsolved problems concerning both conceptual and practical issues, whose deeper investigation is necessary for model-driven approaches to be employed to their full potential in everyday practice.

The main goal of this special session is to provide a discussion forum where researchers and practitioners can meet and share their views on MDE; this session will offer an ideal venue for exchanging ideas and discussing problems, exploring together possible solutions and drafting future directions.

The focus of the session will be on the scientific and practical aspects of model-driven engineering (models, processes, methods, and tools).

The topics of the session include (but are not limited to):

- Model transformation and re-engineering
- Model-based validation and verification
- Model-based assurance of extra-functional requirements
- Models in the system engineering process
- Model evolution and maintenance
- Models for search-based software engineering
- Quality assurance for models
- Integration of different models
- Tool support for model-based development
- Application domains: service-oriented and component-based systems
- Experiences of using model-driven approaches in practice.

PUBLICATION

Accepted papers will be part of the Proceedings of Euromicro SEAA Conference 2009, published by IEEE.

Papers should not exceed 8 pages in IEEE/CS proceedings format (10pt, single-space, double-column; templates can be found at http://www.computer.org/portal/pages/cscps/cps/cps_forms.html) and should include an abstract of 150 words or less.

Accepted papers must be personally presented at the Euromicro SEAA Conference 2009 by one of the authors.

The presenting author(s) must pre-register (full fee) for the Euromicro SEAA Conference 2009 *before* the due date of the Camera-ready paper.

Paper submission. Manuscripts must be submitted in PDF or Postscript format by sending an e-mail to: antonino.sabetta@isti.cnr.it (cc: mirandola@elet.polimi.it)

IMPORTANT DATES

Submission of papers:	March 16, 2009
Notification of acceptance:	April 27, 2009
Camera-ready paper due:	May 26, 2009

ORGANIZERS

Michel Chaudron
Leiden University, Netherlands

Raffaella Mirandola
Politecnico di Milano

Antonino Sabetta
ISTI-CNR, Italy

PROGRAM COMMITTEE

Achim Baier
Itemis, Germany

Steffen Becker
FZI, Germany

Antonio Bucchiarone
FBK, Italy

Mauro Caporuscio
INRIA, France

Antonio Cicchetti
Malardalen University, Sweden

Vittorio Cortellessa
University of L'Aquila, Italy

Guglielmo De Angelis
ISTI-CNR, Italy

Gregor Engels
University of Paderborn, Germany

Mathias Fritzsche
SAP Research, UK

Sebastien Gerard
CEA-LIST, France

Carmine Gravino
University of Salerno, Italy

Lars Grunske
Swinburne University of Technology, Australia

Oystein Haugen
University of Oslo, Norway

Jendrik Johannes
Technische Universität Dresden, Germany

Heiko Koziolk
ABB, Germany

Oscar Pastor
Univ. Polytechnica de Valencia, Spain

Dorina C. Petriu
Carleton University, Canada

Alfonso Pierantonio
University of L'Aquila, Italy

Franco Raimondi
University College London, UK

Jianli Xu
Nokia Research, Finland