

A satellite event of



GT-VMT 2010

Supported by



9th International Workshop on Graph Transformation and Visual Modeling Techniques

March 20-21 2010, Paphos, Cyprus

<http://www.cs.le.ac.uk/events/gtvmt10>

Topics

- visual/graph-based languages for distributed systems
- graph models of distributed computations
- verification and validation of distributed systems with visual techniques
- graphical static/dynamic analysis of distributed systems
- graphs for architectural design languages for distributed systems
- visual techniques for modeling process choreographies and distributed workflows
- visual/graph-based approaches to distributed coordination mechanisms
- graph-based semantics models of novel distributed architectures
- model transformations of graphical into textual formalisms for distributed systems
- model transformations and their application in MDD of distributed and concurrent systems
- relating models/visual tools for concurrency/distribution
- case studies and novel application areas
- tool support and efficient algorithms
- ...

GT-VMT 2010 is the ninth workshop of a series that serves as a forum for all researchers and practitioners interested in the use of graph-based notation, techniques, and tools for the specification, modeling, validation, manipulation and verification of complex systems.

The aim of the workshop is to promote engineering approaches that provide effective sound tool support for visual modeling languages, enhancing formal reasoning at the semantic level (e.g., for model analysis, transformation, and consistency management) in different domains, such as UML, Petri nets, Graph Transformation or Business Process/Workflow Models.

This year's workshop will have a special focus on visualization, simulation, and verification of concurrent and distributed systems.

Concurrency and distribution are among the most vital concerns to nowadays computing due to the importance of interconnected systems and the increased diffusion of multi-core architectures. Nevertheless, concurrent and distributed systems are hard to specify, design, verify and implement.

Visual and graph-based techniques may be exploited to cope with the complexity in engineering of and reasoning about concurrent and distributed systems. In fact, graph-based approaches have recently been successfully applied to represent several computational aspects of different classes of distributed systems ranging from mobile systems a-la pi-calculus, to coordination in service-oriented systems, to communication networks. The aim of the workshop is to promote graph- and visual-based approaches for modeling, designing, implementing and reasoning about concurrent and distributed systems. The general areas of interest range from non-functional aspects to (semi)formal modeling frameworks, to visual techniques for distributed and concurrent systems.

Past editions

- GT-VMT 2000 in Geneva (Switzerland) at ICALP'00.
- GT-VMT 2001 on Crete (Greece) at ICALP'01.
- GT-VMT 2002 in Barcelona (Spain) at ICGT 2002.
- GT-VMT 2004 in Barcelona (Spain) at ETAPS 2004.
- GT-VMT 2006 in Vienna (Austria) at ETAPS 2006.
- GT-VMT 2007 in Braga (Portugal) at ETAPS 2007.
- GT-VMT 2008 in Budapest (Hungary) at ETAPS 2008.
- GT-VMT 2009 in York (UK) at ETAPS 2009.

PC committee

- Paolo Baldan (University of Padova, IT)
- Artur Boronat (University of Leicester, UK)
- Andrea Corradini (University of Pisa, IT)
- Claudia Ermel (TU Berlin, GE)
- Gregor Engels (University of Paderborn, GER)
- Reiko Heckel (University of Leicester, UK)
- Thomas Hildebrandt (ITU)
- Holger Giese (HPI Potsdam, Germany)
- Barbara König (University of Duisburg-Essen)
- Jochen Küster (IBM Research - Zurich) **[co-chair]**
- Alberto Lluch Lafuente (University of Pisa, Italy)
- Juan de Lara (Universidad Autónoma de Madrid, SP)
- Mark Minas (Universität der Bundeswehr München, GER)
- Francesco Parisi-Presicce (University of Rome, IT)
- Arend Rensink (University of Twente, NL)
- Gabriele Taentzer (University of Marburg, GER)
- Emilio Tuosto (University of Leicester, UK) **[co-chair]**
- Dániel Varró (TU Budapest, HU)
- Erhard Weinell (RWTH Aachen University, GER)
- Albert Zündorf (University of Kassel, GER)

Contact

Jochen Küster, jku@zurich.ibm.com
Emilio Tuosto, emilio@mcs.le.ac.uk

Important dates

December 11 2009 Abstract Submission
December 18 2009 Paper Submission
January 4 2010 Notification of Acceptance
January 15 2010 Camera Ready Version