



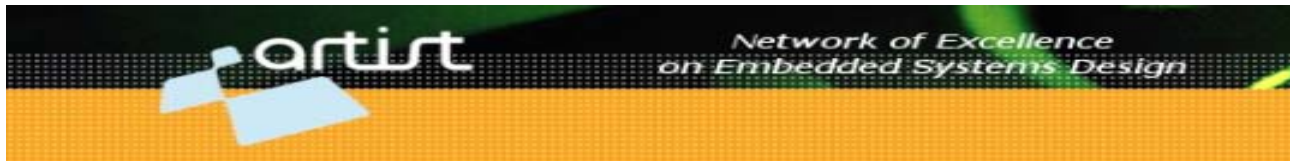
2nd International Workshop on
Model Based Architecting and Construction of Embedded Systems
(ACES^{MB} 2009)

http://www.artid.combedded.org/aces/ACES_N01_09.html

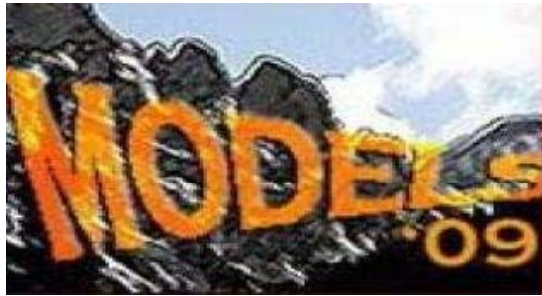
ACES-MB 2009

2nd International Workshop on
Model Based Architecting and
Construction
of Embedded Systems

Stefan Van Baelen (K.U.Leuven DistriNet), Thomas Weigert (Missouri S&T),
Ileana Ober (IRIT), Huascar Espinoza (CEA-LIST)



Spices



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1st edition ACES-MB @ MoDELS 2008 - Toulouse

- 10 full papers
- 3 discussion groups
 - Transition from requirements to architecture
 - Design Languages
 - Transformations and platform (in)dependence
- Results available on website

2nd edition ACES-MB @ MoDELS 2009 - Denver

- 7 full papers
- 3 short papers
- Invited talk: Marco Di Natale

Sébastien Gérard,
Susanne Graf,
Iulian Ober.



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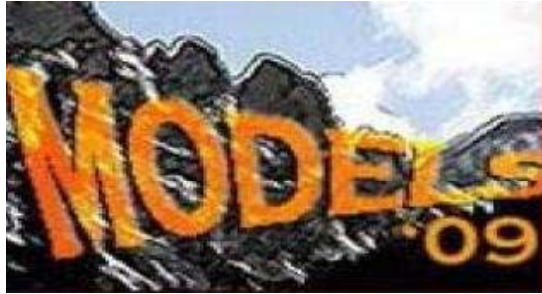
Thanks to

- Steering Committee

Mamoun Filali, Sébastien Gérard, Susanne Graf, Iulian Ober

- Program Committee

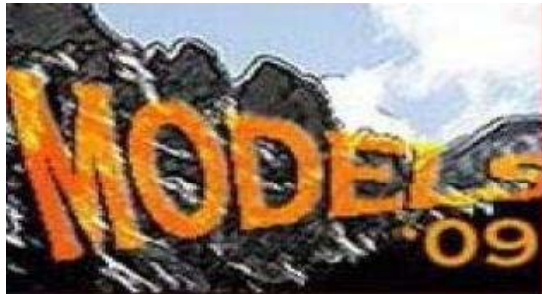
Nicolas Belloir, Jean-Michel Bruel, Agusti Canals, Arnaud Cuccuru, Jean-Marie Farines, Peter Feiler, Robert France, Pierre Gauffillet, Bruce Lewis, Isabelle Perseil, Dorina Petriu, Bernhard Rumpe, Douglas C. Schmidt, Bran Selic, Jean-Bernard Stefani, Richard Taylor, Martin Törngren, Tullio Vardanega, Eugenio Villar, Tim Weilkiens, Sergio Yovine



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- 8h30-8h45: Welcome, introduction and presentation of the participants
- 8h45-9h45: **Invited talk**
 - Marco Di Natale: **Semantics preservation issues in the design and optimization of SW architectures for automotive systems**
 - 9h45-10h00: Questions and discussion
- 10h00-10h30: **Coffee break**
- **Session 1: Domain-Specific Languages for Embedded Systems**
 - 10h30-11h00: Daniela Cancila, François Terrier, Fabien Belmonte, Hubert Dubois, Huascar Espinoza, Sébastien Gérard and Arnaud Cuccuru. **SOPHIA: a Modeling Language for Model-Based Safety Engineering**
 - 11h00-11h30: Emeka Eyisi, Joseph Porter, Joe Hall, Nicholas Kottenstette, Xenofon Koutsoukos and Janos Sztipanovits.
PaNeCS: A Modeling Language for Passivity-based Design of Networked Control Systems
- **Session 2: Analysis and Formalization**
 - 11h30-11h55: Christo Angelov, Krzysztof Sierszecki and Yu Guo.
Formal Design Models for Distributed Embedded Control Systems
 - 11h55-12h10: Lili Tan, Björn Wachter, Philipp Lucas and Reinhard Wilhelm.
Improving Timing Analysis for Matlab Simulink/Stateflow
- 12h10-12h30: Discussion



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- 12h30-14h00: **Lunch break**
- **Session 4: Variability and Reconfiguration (part 1)**
 - 14h00-14h30: Goetz Botterweck, Andreas Polzer and Stefan Kowalewski.
Using Higher-order Transformations to Derive Variability Mechanism for Embedded Systems
- **Session 3: AADL**
 - 14h30-13h45: Dries Langsweirdt, Yves Vandewoude and Yolande Berbers.
Towards Intelligent Tool-Support for AADL Based Modeling of Embedded Systems
 - 14h45-15h00: Marco Bozzano, Alessandro Cimatti, Joost-Pieter Katoen, Viet Yen Nguyen, Thomas Noll and Marco Roveri. **Model-Based Codesign of Critical Embedded Systems**
- 15h00-15h30: Discussion
- 15h30-16h00: **Coffee break**
- **Session 4: Variability and Reconfiguration (part 2)**
 - 16h00-16h25: Johan Ersfolk, Johan Lilius, Jari Muurinen, Ari Salomäki. Niklas Fors and Johnny Nylund.
Design Complexity Management in Embedded System Design
 - 16h25-16h55: Basil Becker, Holger Giese, Stefan Neumann, Martin Schenck and Arian Treffer.
Model-Based Extension of AUTOSAR for Architectural Online Reconfiguration
- 16h55-17h55: Discussion
- 17h55-18h00: Conclusions



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http://www.artel.combedded.org/activities/ACES_N01_09.html

Presentation of participants

- Name and affiliation
- Research/Workshop interests



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Invited Talk

Marco Di Natale
(Scuola Superiore Sant'Anna, Italy)

**Semantics preservation issues in the design
and optimization of SW architectures
for automotive systems**