



Fourth IEEE International workshop UML&AADL'2009

ARTIST

A stylized logo for UML&AADL, featuring the letters U, M, L, A, A, D, L arranged in a triangular shape on a grey background.



Potsdam, June 2nd, 2009



UML&AADL'2006 → PARIS
Telecom Paristech workshop



UML&AADL'2007 → AUCKLAND
ICECCS 2007

UML&AADL'2008 → BELFAST
ICECCS 2008

UML&AADL'2009 → POTSDAM
ICECCS 2009

Steering committee:



Jean-Michel Bruel (IRIT, France)

Agusti Canals (CS, France)

Robert de Simone (INRIA, France)

Sébastien Gérard (CEA-LIST, France)

Isabelle Perseil (Telecom ParisTech, France)



Mike Hinchey (Lero, Ireland): IEEE CS TCCX



Many thanks to our PC !

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André Windisch (EADS, Military Air Systems, Germany)
Sergio Yovine (CNRS-Verimag, France)
Roberto V. Zicari (Goethe University Frankfurt, Germany)

Programme (1)

- 10:40 Introduction Isabelle Perseil - Telecom-ParisTech (France)
- 10:50 Keynote Speaker Oleg Sokolsky (University of Pennsylvania, USA) : “Performance Analysis of AADL Models Using Real-time Calculus”

Session 1 : Verification

- 11:20 "Verification of Replication Architectures in AADL" Dionisio de Niz and Peter H. Feiler
- 11:40 "UML Modeling and Formal Verification of control/data driven Embedded" Fateh Boutekkouk and Mohamed Benmohammed

12:00-13:30 LUNCH

Session 2 : Execution, Implementation, Simulation

- 13:30 "Modeling the Implementation of State-Based System Architectures" Peter H. Feiler
- 13:50 "Executing AADL models with UML/Marte" Frédéric Mallet, Charles André, Julien DeAntoni
- 14:10 "Automating the generation of platform specific models" W. El Hajj Chehade, A. Radermacher, A. Cuccuru, S. Gérard and F. Terrier
- 14:40 "AADL Simulation and Performance Analysis in SystemC" Roberto Varona-Gomez, Eugenio Villar

15:10-15:30 Coffee Break

Session 3: Comparisons

- 15:30 "A comparative study of FIACRE and TASM to define AADL real time concepts" Lei Pi, Zhibin Yang, J-P Bodeveix, M.Filali, Kai Hu, Dianfu Ma
- 15:50 "Common Pitfalls of Using QVT Relations - Graphical Debugging as Remedy" Angelika Kusel, Wieland Swinger, Manuel Wimmer, Werner Retschitzegger
- 16:10 "Visual Comparison of Graphical Models" Arne Schipper, Hauke-Fuhrmann, Reinhard von Hanxleden

Session 4 : Model-based Methodologies

- 16:30 "Constraint management for engineering of DRE systems" Marie-Noelle Terrasse, Marinette Savonnet, Eric Leclercq, Pierre Naubourg, Valery Lopes, Arnaud Da Costa, and Thierry Grison
- 16:50 "Integrating AADL within a multi-domain modeling framework" Ivano Malavolta, Henry Muccini, and Patrizio Pelliccione
- 17:10 "Towards a Model-Driven Approach for Mapping Requirements on AADL Architecture" Mathieu Delehaye, Christophe Ponsard
- 17:30 "An Emerging Need for a New Software Engineering Method" Isabelle Perseil, Laurent Pautet

17:50 Panel

Scheduling analysis from different levels of modeling

Peter Feiler (Carnegie Mellon, USA)

Frederic Mallet (INRIA, France)

Oleg Sokolsky (University of Pennsylvania, USA)

18:50 END OF THE WORKSHOP!

Workshop reports :

- SIGBED Newsletter

The [15th issue](#) (Volume 4, Number 4) [A Special Report on UML & AADL Grand Challenges](#) , [UML & AADL '2007 Grand Challenges](#)

- Transactions in Embedded Computing Systems (TECS)



UML&AADL'2009 KEYNOTE SPEAKER



Short Bio of Oleg Sokolsky

- Oleg Sokolsky is a Research Associate Professor with the Department of Computer and Information Science of University of Pennsylvania, Philadelphia
- His main interests is the application of *formal methods* to design and verification of *distributed real-time systems*.