Workshop Program

9:00 | Introduction and welcome to the EOOLT Workshop
Peter Fritzson

Session 1: Integrated System Modeling Approaches
Session chair: François Cellier

9:00-9:30 | Multi-Paradigm Language Engineering and Equation-Based Object-Oriented Languages
Hans Vangheluwe (keynote talk)

9:30-9:50 | Seamlessly Integrating Software & Hardware Modelling for Large-Scale System
Toby Myers, Peter Fritzson, and Geoff Dromey

9:50-10:05 | The Impreciseness of UML and Implications for ModelicaML
Jorn Guy Suss, Peter Fritzson, and Adrian Pop

10:05-10:15 | Discussion on Integrated System Modeling Approaches

10:15-10:20 | Short Break

Session 2: Modeling for Multiple Applications
Session chair: David Broman

10:20-10:40 | Multi-Aspect Modeling in Equation-Based Languages
Dirk Zimmer

10:40-11:00 | Beyond Simulation: Computer Aided Control System Design Using Equation-Based Object-Oriented Modeling for the Next Decade
Francesco Casella, Filippo Donida, and Marco Lovera

11:00-11:20 | A Static Aspect Language for Modelica Models
Malte Lochau and Henning Guenther

11:20-11:30 | Discussion on Modeling for Multiple Applications

11:30 - 12:00 | Coffee and Continued Discussion

Session 3: Modeling Language Design
Session chair: Peter Fritzson

12:00-12:20 | Higher-Order Acausal Models
David Broman and Peter Fritzson

12:20-12:40 | Type-Based Structural Analysis for Modular Systems of Equations
Henrik Nilsson

12:40-13:00 | Introducing Messages in Modelica for Facilitating Discrete-Event System Modeling
Victorino Sanz, Alfonso Urquia, and Sebastián Dormido

13:00-13:20 | EcosimPro and its EL Object-Oriented Modeling Language
Alberto Jorrin, Cesare de Prada, and Pedro Cobas

13:20-13:30 | Discussion on Modeling Language Design

13:30-15:30 | Lunch and Continued Discussion

Session 4: Equation Handling, Diagnosis, and Modeling
Session chair: François Cellier

15:30-15:50 | Activation inheritance in Modelica
Ramine Nikoukhah

15:50-16:10 | Selection of variables in initialization of Modelica models
Masoud Najafi

16:10-16:30 | Supporting Model-Based Diagnostics with Equation-Based Object Oriented Languages
Peter Bunus and Karin Lunde

16:30-16:50 | Towards an Object-oriented Implementation of von Mises’ Motor Calculus Using Modelica
Tobias Zaiczek and Olaf Enge-Rosenblatt

16:50-17:10 | Discussion on Equation Handling, Diagnosis, and Modeling

17:10-17:30 | Summing Up - Future directions of equation-based languages

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