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Jens Palsberg (Ed.)

# Semantics and Algebraic Specification

Essays Dedicated to Peter D. Mosses  
on the Occasion of His 60th Birthday

Volume Editor

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Peter D. Mosses

# Preface

Peter Mosses, renowned researcher of Semantics of Programming Languages and Algebraic Specification Frameworks, turned 60 years old on November 3, 2008. To honor this event, many of Peter's coauthors, collaborators, close colleagues, and former students gathered in Udine, Italy on September 10, 2009 for a symposium in his honor. The presentations were on subjects related to Peter's many technical contributions and they were a tribute to his lasting impact on the field. Here is the program of the symposium:

- Opening: Jens Palsberg
- Session 1: (Chair: José Luiz Fiadeiro)
  - David Watt, Action Semantics in Retrospect
  - H el ene Kirchner, Component-Based Security Policy Design with Colored Petri Nets
  - Jos e Meseguer, Order-Sorted Parameterization and Induction
- Session 2: (Chair: Andrzej Tarlecki)
  - Martin Musicante, An implementation of Object-Oriented Action Semantics in Maude
  - Christiano Braga, A Constructive Semantics for Basic Aspect Constructs
  - Bartek Klin, Structural Operational Semantics for Weighted Transition Systems
- Session 3:
  - Fernando Orejas, On the Specification and Verification of Model Transformations
  - Olivier Danvy, Towards Compatible and Interderivable Semantic Specifications for the Scheme Programming Language
  - Mark van den Brand, Type Checking Evolving Languages with MSOS
  - Edward Hermann Haeusler, Action Algebras and Model Algebras in Denotational Semantics
- Closing: Peter Mosses

Many thanks to Marina Lenisa from the University of Udine who coordinated the local arrangements. We also thank the Amga spa and the Net spa of Udine, the Municipality of Udine, the International Centre for Mechanical Sciences of Udine, and the Fondazione Crup for their financial support.

The 17 invited chapters of this Festschrift represent the proceedings of the symposium. Some contributors were unable to attend the event. The papers were reviewed by Philippe Bonnet, Doina Bucur, Will Clinger, Olivier Danvy, Edward Hermann Haeusler, Bartek Klin, Paddy Krishnan, Lars Kristensen, S oren Lassen, Jos e Meseguer, Lasse R. Nielsen, Scott Owens, Jens Palsberg, Davide Sangiorgi, David Schmidt, Trian Serbanuta, Andrzej Tarlecki, and Claus Thrane. The reviewers provided feedback to the authors that helped them improve the papers.

Jill Edwards, Sara Fenn, Andy Gimblett, Will Harwood, Markus Roggenbach, and Monika Seisenberger provided a wealth of great photos of Peter. Special thanks to Olivier Danvy and José Luiz Fiadeiro for encouragement and help, and to Christopher Mosses, Peter's son, for helping to pick the photo of Peter that appears in this Festschrift.

September 2009

Jens Palsberg

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