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Nota di contenuto Tribute to Peter Mosses -- Action Semantics in Retrospect --

> Component-Based Security Policy Design with Colored Petri Nets --Order-Sorted Parameterization and Induction -- An Implementation of Object-Oriented Action Semantics in Maude -- A Constructive Semantics for Basic Aspect Constructs -- Structural Operational Semantics for Weighted Transition Systems -- On the Specification and Verification of Model Transformations -- Towards Compatible and Interderivable Semantic Specifications for the Scheme Programming Language, Part I: Denotational Semantics, Natural Semantics, and Abstract Machines -- Towards Compatible and Interderivable Semantic Specifications for the Scheme Programming Language, Part II:

> Reduction Semantics and Abstract Machines -- Type Checking Evolving Languages with MSOS -- Action Algebras and Model Algebras in

> Denotational Semantics -- Mobile Processes and Termination -- An Action Semantics Based on Two Combinators -- Converting between Combinatory Reduction Systems and Big Step Semantics -- Model-Based Testing and the UML Testing Profile -- A Complete, Co-inductive Syntactic Theory of Sequential Control and State -- Vertical Object

Layout and Compression for Fixed Heaps.

Sommario/riassunto

This Festschrift volume, published to honor Peter D. Mosses on the occasion of his 60th birthday, includes 17 invited chapters by many of Peter's coauthors, collaborators, close colleagues, and former students. Peter D. Mosses is known for his many contributions in the area of formal program semantics. In particular he developed action semantics, a combination of denotational, operational and algebraic semantics. The presentations - given on a symposium in his honor in Udine, Italy, on September 10, 2009 - were on subjects related to Peter's many technical contributions and they were a tribute to his lasting impact on the field. Topics addressed by the papers are action semantics, security policy design, colored petri nets, order-sorted parameterization and induction, object-oriented action semantics, structural operational semantics, model transformations, the scheme programming language, type checking, action algebras, and denotational semantics.