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Disciplina	005.1/01/5113
Soggetti	Programming languages (Electronic computers) Computers Mathematical logic Computer logic Programming Languages, Compilers, Interpreters Theory of Computation Mathematical Logic and Formal Languages Logics and Meanings of Programs Mathematical Logic and Foundations
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Nota di contenuto	Interaction systems -- Strong normalization of typeable rewrite systems -- A transformation system combining partial evaluation with term rewriting -- Prototyping relational specifications using higher-order objects -- Origin tracking for higher-order term rewriting systems -- Theory interpretation in simple type theory -- The semantics of SPECTRUM -- ATLAS: A typed language for algebraic specification -- Compilation of Combinatory Reduction Systems -- Specification and verification in higher order algebra: A case study of convolution -- Ordered and continuous models of higher-order specifications -- Rewriting properties of combinators for rudimentary linear logic -- Comparing combinatory reduction systems and higher-order rewrite systems -- Termination proofs for higher-order rewrite

systems -- Extensions of initial models and their second-order proof systems.

Sommario/riassunto

This volume contains the final revised versions of the best papers presented at the First International Workshop on Higher-Order Algebra, Logic, and Term Rewriting (HOA '93), held in Amsterdam in September 1993. Higher-Order methods are increasingly applied in functional and logic programming languages, as well as in specification and verification of programs and hardware. The 15 full papers in this volume are devoted to the algebra and model theory of higher-order languages, computational logic techniques including resolution and term rewriting, and specification and verification case studies; in total they provide a competently written overview of current research and suggest new research directions in this vigorous area.
