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                                 Theory of Computation
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   Nota di contenuto   Equational logic as a tool -- Teaching mathematics to software engineers -- The role of education and training in the industrial application of formal methods -- Information algebras -- Verification of logic programs with delay declarations -- An introduction to category-based equational logic -- Knowledge based computation -- Order-sorted algebraic specifications with higher-order functions -- Proving the correctness of behavioural implementations -- On the decidability of process equivalences for the ?-calculus -- Detecting isomorphisms of modular specifications with diagrams -- Higher-order

narrowing with convergent systems -- Context-free event domains are recognizable -- Encoding natural semantics in Coq -- Mongruences and cofree coalgebras -- Semantic typing for parametric algebraic specifications -- Causality and true concurrency: A data-flow analysis of the Pi-Calculus -- Verification in continuous time by discrete reasoning -- Dynamic matrices and the cost analysis of concurrent programs -- Petri nets, traces, and local model checking -- An algebraic framework for developing and maintaining real-time systems -- Logical foundations for compositional verification and development of concurrent programs in UNITY -- CPO models for infinite term rewriting -- Completeness results for two-sorted metric temporal logics -- On mechanizing proofs within a complete proof system for Unity -- Automated reasoning about parallel algorithms using powerlists -- Representing, verifying and applying software development steps using the PVS system -- An algebraic development technique for information systems -- A framework for machine-assisted user interface verification -- Specification of the Unix file system: A comparative case study -- A Calculus of Countable Broadcasting Systems -- Symbolic timing devices -- An algebraic construction of the well-founded model -- Confluence in concurrent constraint programming -- A generic algebra for data collections based on constructive logic -- Partial order programming (Revisited) -- SPIKE: a system for automatic inductive proofs -- SEAMLESS: Knowledge based evolutionary system synthesis -- An object-oriented front-end for deductive databases -- The SuRE programming framework -- A declarative system for multi-database interoperability -- The METAGEN system.

| Sommario/riassunto | This volume constitutes the proceedings of the 4th International Conference on Algebraic Methodology and Software Technology, held in Montreal, Canada in July 1995. It includes full papers or extended abstracts of the invited talks, refereed selected contributions, and research prototype tools. The invited speakers are David Gries, Jeanette Wing, Dan Craigen, Ted Ralston, Ewa Orlowska, Krzysztof Apt, Joseph Goguen, and Rohit Parikh. The 29 refereed papers presented were selected from some 100 submissions; they are organized in sections on algebraic and logical foundations, concurrent and reactive systems, software technology, logic programming and databases. |