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	Soggetti	Applied mathematics
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		Software engineering
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		Algorithms
		Computer logic
		Applications of Mathematics
		Software Engineering/Programming and Operating Systems
		Theory of Computation
		Computation by Abstract Devices
		Algorithm Analysis and Problem Complexity
		Logics and Meanings of Programs
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	Nota di contenuto	On the unification free prolog programs -- Equivalences and preorders of transition systems -- Deliverables: a categorical approach to program development in type theory -- Complex and complex-like traces -- Symbolic bisimulations (abstract) -- Some results on the full abstraction problem for restricted lambda calculi -- Action calculi, or syntactic action structures -- Observable properties of higher order functions that dynamically create local names, or: What's new? -- The second calculus of binary relations -- An introduction to dynamic

labeled 2-structures -- Post Correspondence Problem: Primitivity and interrelations with complexity classes -- A taste of linear logic -- On the tree inclusion problem -- On the adequacy of per models -- Hausdorff reductions to sparse sets and to sets of high information content -- Stores as homomorphisms and their transformations -- Comparative semantics for linear arrays of communicating processes -- Rabin tree automata and finite monoids -- Efficient type reconstruction in the presence of inheritance -- A characterization of Sturmian morphisms -- On the complexity of scheduling incompatible jobs with unit-times -- Isomorphisms between predicate and state transformers -- On the amount of nondeterminism and the power of verifying -- Observing distribution in processes -- Speedup of recognizable trace languages -- May I borrow your logic? -- Approximate and exact deterministic parallel selection -- Defining soft sortedness by abstract interpretation -- A model for real-time process algebras (extended abstract) -- Data encapsulation and modularity: Three views of inheritance -- Image compression using Weighted Finite Automata -- Filter models for a parallel and non deterministic ?-calculus -- Real number computability and domain theory -- Lambda substitution algebras -- Global properties of 2D cellular automata: some complexity results -- Completeness results for linear logic on Petri nets -- An expressive logic for Basic Process Algebra -- The complexity of finding replicas using equality tests -- A complete axiomatization for branching bisimulation congruence of finite-state behaviours -- Object Oriented application flow graphs and their semantics -- Some hierarchies for the communication complexity measures of cooperating grammar systems -- Efficient parallel graph algorithms based on open ear decomposition -- On the communication complexity of parallel computation -- A taxonomy of forgetting automata -- Hybrid parallel programming and implementation of synchronised communication -- Proof systems for cause based equivalences -- A uniform universal CREW PRAM -- Observing located concurrency -- The boundary of substitution systems -- New algorithms for detecting morphic images of a word -- Ignoring nonessential interleavings in assertional reasoning on concurrent programs -- Constant time reductions in ?-calculus -- Heterogeneous unified algebras -- A representation theorem for lambda abstraction algebras -- On saturated calculi for a linear temporal logic -- The snack powerdomain for database semantics -- Verifying properties of module construction in type theory -- On time-space trade-offs in dynamic graph pebbling -- Deterministic behavioural models for concurrency -- Real-time refinement: Semantics and application -- Deciding testing equivalence for real-time processes with dense time -- A calculus for higher order procedures with global variables -- Variable substitution with iconic combinators -- Feature constraints with first-class features -- Between Min Cut and Graph Bisection -- Paths and cycles in finite periodic graphs -- Learning decision lists from noisy examples -- Analytic tableaux for finite and infinite Post logics.

Sommario/riassunto	This volume contains the proceedings of the 18th International Symposium on Mathematical Foundations of Computer Science, MFCS '93, held in Gdansk, Poland, August-September 1993. The MFCS symposia, organized annually in Poland and the former Czechoslovakia since 1972, have a long and well-established tradition. Over the years they have served as a meeting ground for specialists from all branches of theoretical computer science, in particular - algorithms and complexity, automata theory and theory of languages, - concurrent, distributed and real-time systems, - the theory of functional, logic and

object-oriented programming, - lambda calculus and type theory, - semantics and logics of programs, and others. The volume contains 12 invitedlectures and 56 contributed papers selected from 133 submissions.