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Soggetti	Software engineering
	Computers
	Computer logic
	Special purpose computers
	Mathematical logic
	Software Engineering/Programming and Operating Systems Theory of Computation
	Software Engineering
	Logics and Meanings of Programs
	Special Purpose and Application-Based Systems
	Mathematical Logic and Formal Languages
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Nota di contenuto	Software configuration with information systems Head-tactics simplification Iteration 2-theories: Extended Abstract Model checking and fault tolerance Deadlock analysis for a fault-tolerant system From sequential to multi-threaded Java: An event-based operational semantics Permissive subsorted partial logic in CASL Specification of timing constraints within the circal process algebra On the specification and verification of performance properties for a timed process algebra Abstract interpretation of algebraic polynomial systems (Extended abstract) Modular refinement and model building A linear temporal logic approach to objects with transactions Software design, specification, and verification: Lessons

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	learned from the Rether case study Refinement rules for real-time multi-tasking programs Rigorous object-oriented modeling: Integrating formal and informal notations Completeness in abstract interpretation: A domain perspective Floating point verification in HOL light: The exponential function Verification of distributed real-time and fault-tolerant protocols Invariants, bisimulations and the correctness of coalgebraic refinements On bisimulation, fault-monotonicity and provable fault-tolerance Span(Graph): A categorical algebra of transition systems Representing place/transition nets in Span(Graph) Invariants of parameterized binary tree networks as greatest fixpoints Modelling specification construction by successive approximations On partial validation of logic programs Preservation and reflection in specification Case studies in using a meta-method for formal method integration The update calculus Selective attribute elimination for categorical data specifications ATM switch design: Parametric high-level modeling and formal verification for Full LOTOS Algebraic composition and refinement of proofs Ensuring streams flow Extending process languages with time Parametric analysis of computer systems CAMILA: Prototyping and refinement of constructive specifications PAMELA+PVS The circal system A refinement-type checker for standard ML Recording HOL proofs in a structured browsable format Analysing multi-agent system traces with IDaF DOVE: A tool for design oriented verification and evaluation The B method and the B toolkit An algebraic language processing environment The Cogito development system.
Sommario/riassunto	This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Methodology and Software Engineering, AMAST'97, held in Sydney, Australia, in December 1997. The volume presents 48 revised full papers selected from an unusually high number of submissions. One of the outstanding features of AMAST is its mix of serious mathematical development of formal methods in software engineering with practical concerns, tools, case studies, and industrial development. The volume addresses all current aspects of formal methods in software engineering and programming methodology, with a certain emphasis on algebraic and logical foundations.