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Disciplina	511.3
Soggetti	Computer logic
	Mathematical logic
	Computers
	Software engineering
	Programming languages (Electronic computers)
	Logics and Meanings of Programs
	Mathematical Logic and Foundations
	Software Engineering
	Mathematical Logic and Formal Languages
	Programming Languages, Compilers, Interpreters
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Papers Intra-step Interaction Closed-Loop Modeling and Related Problems of Embedded Control Systems in Engineering An ALGOL-View on Turbo ASM An ASM Specification of C# Threads and the .NET Memory Model Finite Cursor Machines in Database Query Processing Research Papers Formalizing Liveness-Enriched Sequence Diagrams Using ASMs Specification and Validation of the

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	Business Process Execution Language for Web Services Monodic ASMs and Temporal Verification Towards an Interchange Language for ASMs Specification and Implementation Problems for C# An ASM Semantics for SSA Intermediate Representations Observations on the Decidability of Transitions A Security Logic for Abstract State Machines Slicing Abstract State Machines The Cryptographic Abstract Machine Modeling Discretely Timed Systems Using Different Magnitudes of Non-standard Reals.
Sommario/riassunto	Abstract state machines (ASM) sharpen the Church-Turing thesis by the c- sideration of bounded resources for computing devices. They view computations as an evolution of a state. It has been shown that all known models of com- tation can be expressed through speci?c abstract state machines. These models can be given in a representation-independent way. That is one advantage of transferring these models to ASM. The main advantage is, however, to provide a unifying theory to all of these models. At the same time ASM can be re? ned to other ASMs. Stepwise re?nement supports separation of concern during so- ware development and will support component-based construction of systems thus providing a foundation of new computational paradigms such as industrial programming, programming-in-the-large, and programming-in-the-world. ASM 2004 continued the success story of the ASM workshops. Previous workshops were held in the following European cities: Taormina, Italy (2003); Dagstuhl, Germany (2002); Las Palmas de Gran Canaria, Spain (2001); Monte Verita, Switherland (2000); Toulouse, France (1999); Magdeburg, Germany (1998); Cannes, France (1998, 1997); Paderborn, Germany (1996); and H- burg, Germany (1994). The ASM workshops have had predecessors, e.g., the famous Lipari Summer School in 1993, whose in?uential outcome was the f- damental Lipari Guide.