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| Descrizione fisica      | 1 online resource (XII, 392 p.)   |
| Collana                 | Programming and Software Engineering ; ; 4019   |
| Disciplina              | 005.1   |
| Soggetti                | Software engineering<br>Computer logic<br>Mathematical logic<br>Computer programming<br>Computer science—Mathematics<br>Software Engineering/Programming and Operating Systems<br>Logics and Meanings of Programs<br>Mathematical Logic and Formal Languages<br>Software Engineering<br>Programming Techniques<br>Symbolic and Algebraic Manipulation   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Bibliographic Level Mode of Issuance: Monograph   |
| Nota di bibliografia    | Includes bibliographical references and index.  |
| Nota di contenuto       | Invited Talks Incremental Software Construction with Refinement<br>Diagrams Recursive Program Schemes: Past, Present, and Future<br>Monad-Based Logics for Computational Effects Contributed Papers<br>State Space Representation for Verification of Open Systems Data<br>Movement Optimisation in Point-Free Form Measuring the Speed of<br>Information Leakage in Mobile Processes Formal Islands Some<br>Programming Languages for Logspace and Ptime Opaque Predicates<br>Detection by Abstract Interpretation DO-Casl: An Observer-Based<br>Casl Extension for Dynamic Specifications Model Transformations<br>Incorporating Multiple Views Hyperfinite Approximations to Labeled<br>Markov Transition Systems State Space Reduction of Rewrite |

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|                    | Theories Using Invisible Transitions The Essence of Multitasking<br>The Substitution Vanishes Decomposing Interactions Verification<br>of Communication Protocols Using Abstract Interpretation of FIFO<br>Queues Assessing the Expressivity of Formal Specification<br>Languages Fork Algebras as a Sufficiently Rich Universal Institution<br>Realizability Criteria for Compositional MSC Quantales and<br>Temporal Logics Fractional Semantics Reasoning About Data-<br>Parallel Pointer Programs in a Modal Extension of Separation Logic<br>Testing Semantics: Connecting Processes and Process Logics<br>Tableaux for Lattices Accelerated Modal Abstractions of Labelled<br>Transition Systems A Compositional Semantics of Plan Revision in<br>Intelligent Agents System Descriptions ITP/OCL: A Rewriting-<br>Based Validation Tool for UML+OCL Static Class Diagrams A<br>Computational Group Theoretic Symmetry Reduction Package for the<br>Spin Model Checker Using Category Theory as a Basis for a<br>Heterogeneous Data Source Search Meta-engine: The Prométhée<br>Framework.   |
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| Sommario/riassunto | This is the proceedings of the 11th edition of the Algebraic<br>Methodology and Software Technology (AMAST) conference series. The<br>?rst conference was held in the USA in 1989, and since then AMAST<br>conferences have been held on (or near) ?ve di?erent continents and<br>have been hosted by many of the most prominent people and<br>organizations in the ?eld. The AMAST initiative has always sought to<br>have practical e?ects by dev- oping the science of software and basing<br>it on a ?rm mathematical foundation. AMAST<br>hasinterpretedsoftwaretechnologybroadly,andhas, for example, held<br>AMAST workshops in areas as diverse as real-time systems and<br>(natural) I- guage processing. Similarly, algebraic methodology is<br>interpreted broadly and includes abstract algebra, category theory,<br>logic, and a range of other ma- ematical subdisciplines. The truly<br>distinguishing feature of AMAST is that it seeks rigorous mathematical<br>developments, but always strives to link them to real technological<br>applications. Our meetings frequently include industry-based<br>participants and are a rare opportunity for mathematicians and<br>mathema- callymindedacademicstointeracttechnicallywithindustry-<br>basedtechnologists. Over the years AMAST has included industrial<br>participants from organizations specializing in safety-critical (including<br>medical) systems, transport (including aerospace), and security-critical<br>systems, amongst others. |