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Titolo	Abstract State Machines, Alloy, B and Z [[electronic resource]] : Second International Conference, ABZ 2010, Orford, QC, Canada, February 22-25, 2010, Proceedings / / edited by Marc Frappier, Uwe Glässer, Sarfraz Khurshid, Régine Laleau, Steve Reeves
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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5977
Disciplina	004.0151
Soggetti	Computer science Machine theory Algorithms Computer science—Mathematics Theory of Computation Formal Languages and Automata Theory Computer Science Logic and Foundations of Programming Mathematics of Computing
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- A Structure for Dependability Arguments -- Formal Probabilistic Analysis: A Higher-Order Logic Based Approach -- ASM Papers -- Synchronous Message Passing and Semaphores: An Equivalence Proof -- AsmL-Based Concurrency Semantic Variations for Timed Use Case Maps -- Bârun: A Scripting Language for CoreASM -- AsmetaSMV: A Way to Link High-Level ASM Models to Low-Level NuSMV Specifications -- An Executable Semantics of the SystemC UML Profile -- Alloy Papers -- Specifying Self-configurable Component-Based Systems with FracToy -- Trace Specifications in Alloy -- An Imperative Extension to Alloy -- Towards Formalizing Network Architectural Descriptions -- Lightweight Modeling of Java Virtual Machine Security

Constraints -- Alloy+HotCore: A Fast Approximation to Unsat Core --  
B Papers -- Supporting Reuse in Event B Development: Modularisation  
Approach -- Reasoned Modelling Critics: Turning Failed Proofs into  
Modelling Guidance -- Applying the B Method for the Rigorous  
Development of Smart Card Applications -- Automatic Verification for a  
Class of Proof Obligations with SMT-Solvers -- A Refinement-Based  
Correctness Proof of Symmetry Reduced Model Checking --  
Development of a Synchronous Subset of AADL -- Matelas: A Predicate  
Calculus Common Formal Definition for Social Networking --  
Structured Event-B Models and Proofs -- Refinement-Animation for  
Event-B — Towards a Method of Validation -- Reactivising Classical B  
-- Event-B Decomposition for Parallel Programs -- Z Papers --  
Communication Systems in ClawZ -- Formalising and Validating RBAC-  
to-XACML Translation Using Lightweight Formal Methods -- Towards  
Formally Tempted Relational Database Representations in Z --  
Translating Z to Alloy -- ABZ Short Papers (Abstracts) -- B-ASM:  
Specification of ASM à la B -- A Case for Using Data-Flow Analysis to  
Optimize Incremental Scope-Bounded Checking -- On the Modelling  
and Analysis of Amazon Web Services Access Policies -- Architecture as  
an Independent Variable for Aspect-Oriented Application Descriptions  
-- ParAlloy: Towards a Framework for Efficient Parallel Analysis of Alloy  
Models -- Introducing Specification-Based Data Structure Repair Using  
Alloy -- Secrecy UML Method for Model Transformations -- Improving  
Traceability between KAOS Requirements Models and B Specifications  
-- Code Synthesis for Timed Automata: A Comparison Using Case  
Study -- Towards Validation of Requirements Models -- A Proof Based  
Approach for Formal Verification of Transactional BPEL Web Services --  
On an Extensible Rule-Based Prover for Event-B -- B Model Abstraction  
Combining Syntactic and Semantic Methods -- A Basis for Feature-  
Oriented Modelling in Event-B -- Using Event-B to Verify the Kmilia  
Components and Their Assemblies -- Starting B Specifications from  
Use Cases -- Integrating SMT-Solvers in Z and B Tools -- Formal  
Analysis in Model Management: Exploiting the Power of CZT.

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