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   Disciplina   004

   Soggetti   Computer science
                          Machine theory
                          Compilers (Computer programs)
                          Software engineering
                          Theory of Computation
                          Computer Science Logic and Foundations of Programming
                          Formal Languages and Automata Theory
                          Compilers and Interpreters
                          Software Engineering

   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 Papers -- Verifying a Hotel Key Card System -- Z/Eves and the
                          Mondex Electronic Purse -- Verification Constraint Problems with
                          Strengthening -- Semantics -- Quantitative ?-Calculus Analysis of
                          Power Management in Wireless Networks -- Termination and
                          Divergence Are Undecidable Under a Maximum Progress Multi-step
                          Semantics for LinCa -- A Topological Approach of the Web
                          Classification -- Concurrency -- Bisimulation Congruences in the
                          Calculus of Looping Sequences -- Stronger Reduction Criteria for Local
                          First Search -- A Lattice-Theoretic Model for an Algebra of
                          Communicating Sequential Processes -- A Petri Net Translation of ?-
                          Calculus Terms -- Model Checking -- Handling Algebraic Properties in
                          Automatic Analysis of Security Protocols -- A Compositional Algorithm

for Parallel Model Checking of Polygonal Hybrid Systems -- Thread-Modular Verification Is Cartesian Abstract Interpretation -- Formal Languages -- Capture-Avoiding Substitution as a Nominal Algebra -- Prime Decomposition Problem for Several Kinds of Regular Codes -- A New Approach to Determinisation Using Bit-Parallelism -- Logic and Type Theory -- Proving ATL* Properties of Infinite-State Systems -- Type Safety for FJ and FGJ -- Partizan Games in Isabelle/HOLZF -- Proof-Producing Program Analysis -- Real-Time and Mobility -- Reachability Analysis of Mobile Ambients in Fragments of AC Term Rewriting -- Interesting Properties of the Real-Time Conformance Relation tioco -- Model Checking Duration Calculus: A Practical Approach -- Spatio-temporal Model Checking for Mobile Real-Time Systems -- Tutorials: Extended Abstracts -- Tutorial on Formal Methods for Distributed and Cooperative Systems -- Decision Procedures for the Formal Analysis of Software.

| Sommario/riassunto | The International Colloquium on Theoretical Aspects of Computing (ICTAC) held in 2006 in Tunis, Tunisia, was the third of a series of events created by the InternationalInstituteforSoftwareTechnologyoftheUnitedNationsUniversity. The aim of the colloquium is to bring together researchers from academia, - dustry, and governmentto present their results, and exchange experience, ideas, and solutions for their problems in theoretical aspects of computing. The previous events were held in Guiyang, China (2004), and Hanoi, Vi- nam (2005). Beyond its scholarly goals, another main purpose of ICTAC is to promote cooperation in research and education between participants and their institutions, from developing and industrial countries, as in the mandate of the United Nations University. These proceedings record the contributions from the invited speakers and from the technical sessions. We present four invited papers, 21 technical papers, selected out of 78 submissions from 24 countries, and two extended abstracts of tutorials. The Programme Committee includes researchers from 27 countries. Each of the 78 papers was evaluated by at least three reviewers. After the evaluation, reports were returned to the Programme Committee for discussion and reso- tion of con?icts. Based on their recommendations, we concluded the consensus process, and selected the 21 papers that we present here. For the evaluation of the submitted tutorials, this year we had the help of a separate Programme Committee especially invited for that purpose. |