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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Invited Talks -- Symbolic and Analytic Techniques for Resource Analysis of Java Bytecode -- Perspectives in Certificate Translation -- Uniform Labeled Transition Systems for Nondeterministic, Probabilistic,

and Stochastic Processes -- Toward a Game-Theoretic Model of Grid Systems -- Functions as Processes: Termination and the λ -Calculus -- Predicate Encryption for Secure Remote Storage -- Trust in Crowds: Probabilistic Behaviour in Anonymity Protocols -- Types and Processes -- Expressiveness of Generic Process Shape Types -- A Java Inspired Semantics for Transactions in SOC -- Responsive Choice in Mobile Processes -- A Model of Evolvable Components -- Games and Concurrent Systems -- The Impact of Altruism on the Efficiency of Atomic Congestion Games -- Stressed Web Environments as Strategic Games: Risk Profiles and Weltanschauung -- An Algebra of Hierarchical Graphs -- Property-Preserving Refinement of Concurrent Systems -- Certification of Correctness -- Certificate Translation for the Verification of Concurrent Programs -- Certified Result Checking for Polyhedral Analysis of Bytecode Programs -- Tools and Languages -- A Novel Resource-Driven Job Allocation Scheme for Desktop Grid Environments -- A Framework for Rule-Based Dynamic Adaptation -- CarPal: Interconnecting Overlay Networks for a Community-Driven Shared Mobility -- Refactoring Long Running Transactions: A Case Study -- Probabilistic Aspects -- Approximate Model Checking of Stochastic COWS -- Probabilistic Aspects: Checking Security in an Imperfect World -- A Tool for Checking Probabilistic Properties of COWS Services.

Sommario/riassunto

Global computing refers to computation over “global computers,” i.e., computational infrastructures available globally and able to provide uniform services with variable guarantees for communication, cooperation and mobility, resource usage, security policies and mechanisms, etc., with particular regard to exploiting their universal scale and the programmability of their services. As the scope and computational power of such global infrastructures continue to grow, it becomes more and more important to develop methods, theories and techniques for trustworthy systems running on global computers. This book constitutes the thoroughly refereed proceedings of the 5th edition of the International Symposium on Trustworthy Global Computing (TGC 2010) that was held in Munich, Germany, February 24-26, 2010. The Symposium on Trustworthy Global Computing is an international annual venue dedicated to safe and reliable computation in global computers. It focuses on providing frameworks, tools, and protocols for constructing well-behaved applications and on reasoning rigorously about their behavior and properties. The related models of computation incorporate code and data mobility over distributed networks with highly dynamic topologies and heterogeneous devices.
