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Collana	Programming and Software Engineering, , 2945-9168 ; ; 9688
Disciplina	004.0151
Soggetti	Computer science Software engineering Machine theory Application software Computer networks Computer Science Logic and Foundations of Programming Software Engineering Theory of Computation Formal Languages and Automata Theory Computer and Information Systems Applications Computer Communication Networks
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Note generali	Includes index.
Nota di contenuto	On the Power of Attribute-Based Communication -- Fencing Programs with Self-Invalidation and Self-Downgrade -- A Framework for Certified Self-Stabilization -- Developing Honest Java Programs with Diogenes -- Playing with our CAT and Communication-Centric Applications -- Multiparty Session Types Within A Canonical Binary Theory, and Beyond -- A Type Theory for Robust Failure Handling in Distributed Systems -- Choreographies in Practice -- Specification-Based Synthesis of Distributed Self-Stabilizing Protocols -- Branching Bisimulation Games -- A Configurable CEGAR Framework with Interpolation-Based

Refinements -- A Theory for the Composition of Concurrent Processes -- Enforcing Availability in Failure-Aware Communicating Systems -- Ransomware Steals Your Phone. Formal Methods Rescue It -- Multiple Mutation Testing from FSM -- The Challenge of Typed Expressiveness in Concurrency -- Type-Based Analysis for Session Inference -- SimAutoGen Tool: Test Vector Generation from Large Scale Matlab/Simulink Models.

Sommario/riassunto

This book constitutes the proceedings of the 36th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects, Components, and Systems, FORTE 2016, held in Heraklion, Crete, Greece, in June 2016, as part of the 11th International Federated Conference on Distributed Computing Techniques, DisCoTec 2016. The 18 revised full papers presented were carefully reviewed and selected from 44 submissions. The papers present a wide range of topics on distributed computing models and formal specification, testing, and verification methods.