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Collana	Programming and Software Engineering ; ; 10522
Disciplina	005.1
Soggetti	Software engineering Computer logic Algorithms Programming languages (Electronic computers) Computer programming Computer organization Software Engineering Logics and Meanings of Programs Algorithm Analysis and Problem Complexity Programming Languages, Compilers, Interpreters Programming Techniques Computer Systems Organization and Communication Networks
Lingua di pubblicazione	Inglese
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Nota di contenuto	Implementing Open Call-by-Value -- Debugging of Concurrent Programs Using Counterexample Analysis -- Bisimilarity of Open Terms in Stream GSOS -- Composing Families of Timed Automata -- A Core Calculus for Multi SPLs -- Translating Active Objects into Colored Petri Nets for Communication Analysis -- Synthesizing Parameterized Self-Stabilizing Rings with Constant-Space Processes -- Flexible Transactional Coordination in the Peer Model -- Using Swarm Intelligence to Generate Test Data for Covering Prime Paths -- LittleDarwin: a Feature-Rich and Extensible Mutation Testing

Framework for Large and Complex Java Systems -- TCE+: An Extension of the TCE Approach for Detecting Equivalent Mutants in Java Programs -- Quality-Aware Reactive Programming for the IoT -- Purpose-based Policy Enforcement in Actor-based Systems -- Automatic Transition System Model Identification for Network Applications from Packet Traces -- Gray-Box Conformance Testing for Symbolic Reactive State Machines -- Model Checking of Concurrent Software Systems via Heuristic-Guided SAT Solving. .

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Fundamentals of Software Engineering, FSEN 2017, held in Tehran, Iran, in April 2017. The 16 full papers presented in this volume were carefully reviewed and selected from 49 submissions. The topics of interest in FSEN span over all aspects of formal methods, especially those related to advancing the application of formal methods in software industry and promoting their integration with practical engineering techniques.
