

1. Record Nr.	UNINA9910473457103321
Autore	Guerra Esther
Titolo	Fundamental Approaches to Software Engineering : 24th International Conference, FASE 2021, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2021, Luxembourg City, Luxembourg, March 27 – April 1, 2021, Proceedings // edited by Esther Guerra, Mariëlle Stoelinga
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-71500-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (383 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12649
Altri autori (Persone)	StoelingaMarielle
Disciplina	005.1
Soggetti	Software engineering Data structures (Computer science) Information theory Natural language processing (Computer science) Computer programming Computer science Software Engineering Data Structures and Information Theory Natural Language Processing (NLP) Programming Techniques Theory of Computation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	FASE Contributions -- On Benchmarking for Concurrent Runtime Verification -- Certified Abstract Cost Analysis -- Bootstrapping Automated Testing for RESTful Web Services -- A Decision Tree Lifted Domain for Analyzing Program Families with Numerical Features -- Finding a Universal Execution Strategy for Model Transformation Networks -- CoVEGI: Cooperative Verification via Externally Generated Invariants -- Engineering Secure Self-Adaptive Systems with Bayesian Games -- An Abstract Contract Theory for Programs with Procedures

-- Paracosm: A Test Framework for Autonomous Driving Simulations --  
Compositional Analysis of Probabilistic Timed Graph Transformation  
Systems -- Efficient Bounded Model Checking of Heap-Manipulating  
Programs using Tight Field Bounds -- Effects of Program  
Representation on Pointer Analyses - An Empirical Study -- Keeping  
Pace with the History of Evolving Runtime Models -- SpecTest:  
Specification-Based Compiler Testing -- PASTA: An Efficient Proactive  
Adaptation Approach Based on Statistical Model Checking for Self-  
Adaptive Systems -- Understanding Local Robustness of Deep Neural  
Networks under Natural Variations -- Test-Comp Contributions --  
Status Report on Software Testing: Test-Comp 2021 -- CoVeriTest with  
Adaptive Time Scheduling (Competition Contribution) -- FuSeBMC: A  
White-Box Fuzzer for Finding Security Vulnerabilities in C Programs  
(Competition Contribution) -- Symbiotic 8: Parallel and Targeted Test  
Generation (Competition Contribution).

---

Sommario/riassunto

This open access book constitutes the proceedings of the 24th  
International Conference on Fundamental Approaches to Software  
Engineering, FASE 2021, which took place during March 27–April 1,  
2021, and was held as part of the Joint Conferences on Theory and  
Practice of Software, ETAPS 2021. The conference was planned to take  
place in Luxembourg but changed to an online format due to the  
COVID-19 pandemic. The 16 full papers presented in this volume were  
carefully reviewed and selected from 52 submissions. The book also  
contains 4 Test-Comp contributions. .

---