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Systems Development -- Translating a Large Subset of Stateflow to Hybrid CSP with Code Optimization -- DeepGlobal: a Global Robustness Verifiable FNN Framework -- Leveraging Event-B Theories for handling domain knowledge in design models -- Program Analysis and Verification -- Reasoning about Iteration and Recursion Uniformly based on Big-step Semantics -- Trace Semantics and Algebraic Laws for MCA ARMv8 Architecture based on UTP -- Formal Analysis of 5G AKMA -- Verifying the Correctness of Distributed Systems via Mergeable Parallelism -- Testing and Fault Detection -- Mutation Testing of Reinforcement Learning Systems -- AldetectorX: A Vulnerability Detector based on TCN and Self-attention Mechanism -- MC/DC Test Cases Generation based on BDDs -- Software Quality -- Predicting and Monitoring Bug-proneness at The Feature Level -- CSFL: Fault Localization on Real Software Bugs Based on the Combination of Context and Spectrum -- A Distributed Simplex Architecture for Multi-Agent Systems -- Satisfiability, Reachability and Model Checking -- OURS: Over- and Under-Approximating Reachable Sets for Analytic Time-invariant Differential Equations -- ESampler: Efficient Sampling of Satisfying Assignments for Boolean Formulas -- API Usage Pattern Search Based on Model Checking.

Sommario/riassunto

This book constitutes the proceedings of the 7th International Symposium on Dependable Software Engineering, SETTA 2021, held in Beijing, China, in November 2021. The 16 full papers in this volume were carefully reviewed and selected from 39 submissions, and are presented with 3 abstracts of keynote speeches. They deal with latest research results and ideas on bridging the gap between formal methods and software engineering.