Yoshida

Programming Languages and Systems

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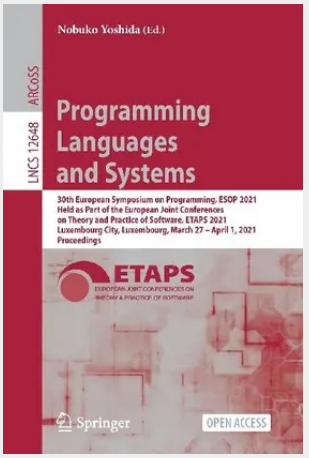
This open access book constitutes the proceedings of the 30 European Symposium on Programming, ESOP 2021, which was held during March 27 until April 1, 2021, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2021. The conference was planned to take place in Luxembourg and changed to an online format due to the COVID-19 pandemic.

The 24 papers included in this volume were carefully reviewed and selected from 79 submissions. They deal with fundamental issues in the specification, design, analysis, and implementation of programming languages and systems.

The Decidability of Verification under PS 2.0.- Data Flow Analysis of Asynchronous Systems using Infinite Abstract Domains.- Types for Complexity of Parallel Computation in Pi-Calculus.- Checking Robustness Between Weak Transactional Consistency Models.- Verified Software Units.- An Automated Deductive Verication Framework for Circuit-building Quantum Programs.- Nested Session Types.- Coupled Relational Symbolic Execution for Differential Privacy.- Graded Hoare Logic and its Categorical Semantics.- Do Judge a Test by its Cover: Combining Combinatorial and Property-Based Testing.- For a Few Dollars More - Verified Fine-Grained Algorithm Analysis Down to LLVM.- Run-time Complexity Bounds Using Squeezers.- Complete trace models of state and control.- Session Coalgebras: A Coalgebraic View on Session Types and Communication Protocols.- Correctness of Sequential Monte Carlo Inference for Probabilistic Programming Languages.- Densities of Almost Surely Terminating Probabilistic Programs areDifferentiable Almost Everywhere.- Graded Modal Dependent Type Theory.- Automated Termination Analysis of Polynomial Probabilistic Programs.- Bayesian strategies: probabilistic programs as generalised graphical models.- Temporal Refinements for Guarded Recursive Types.- Query Lifting: Language-integrated query for heterogeneous nested collections.- Reverse AD at Higher Types: Pure, Principled and Denotationally Correct.- Sound and Complete Concolic Testing for Higher-order Functions.- Strong-Separation Logic.



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