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Nota di contenuto	Categorical Foundation of Gradient-Based Learning -- Compiling Universal Probabilistic Programming Languages with Efficient Parallel Sequential Monte Carlo Inference -- Foundations for Entailment Checking in Quantitative Separation Logic -- Extracting total Amb programs from proofs -- Why3-do: The Way of Harmonious Distributed System Proofs -- Relaxed virtual memory in Armv8-A -- Verified Security for the Morello Capability-enhanced Prototype Arm Architecture -- The Trusted Computing Base of the CompCert Verified

Compiler -- View-Based Owicki-Gries Reasoning for Persistent x86-TSO -- Abstraction for Crash-Resilient Objects -- Static Race Detection for Periodic Programs -- Probabilistic Total Store Ordering -- Linearity and Uniqueness: An Entente Cordiale -- A Framework for Substructural Type Systems -- A Dependent Dependency Calculus -- Polarized Subtyping -- Structured Handling of Scoped Effects -- Region-based Resource Management and Lexical Exception Handlers in Continuation-Passing Style -- A Predicate Transformer for Choreographies -- Comparing the expressiveness of the λ -calculus and CCS -- Concurrent NetKAT.

Sommario/riassunto

This open access book constitutes the proceedings of the 31st European Symposium on Programming, ESOP 2022, which was held during April 5-7, 2022, in Munich, Germany, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2022. The 21 regular papers presented in this volume were carefully reviewed and selected from 64 submissions. They deal with fundamental issues in the specification, design, analysis, and implementation of programming languages and systems.
