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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12222
Disciplina	005.114
Soggetti	Computer programming Computer engineering Computer networks Microprogramming Application software Artificial intelligence Compilers (Computer programs) Programming Techniques Computer Engineering and Networks Control Structures and Microprogramming Computer and Information Systems Applications Artificial Intelligence Compilers and Interpreters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Domain-specific languages -- PaSe: An Extensible and Inspectable DSL for Micro-Animations -- BinderAnn: Automated Reification of Source Annotations for Monadic EDSLs -- Generating next step hints for task oriented programs using symbolic execution -- Debugging and testing -- Scaling Up Delta Debugging of Type Errors -- Flexible Formality: Practical Experience with Agile Formal Methods -- White-Box Path

Generation in Recursive Programs -- Reasoning and effects -- A Proof Assistant Based Formalisation of a Subset of Sequential Core Erlang -- One-shot Algebraic Effects as Coroutines -- An equational modeling of asynchronous concurrent programming -- State will do -- Parallelism -- Placement Strategies: Structured Skeleton Composition with Location-Aware Remote Data.

Sommario/riassunto

This book constitutes revised selected papers from the 21st International Symposium on Trends in Functional Programming, TFP 2020, which was held in Krakow, Poland, during February 13-14, 2020. The 11 full papers presented in this volume were carefully reviewed and selected from 22 submissions. They were organized in topical sections named: domain-specific languages; debugging and testing; reasoning and effects; and parallelism. The following chapters are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com: Chapter 3: Generating next step hints for task oriented programs using symbolic execution by Nico Naus and Tim Steenvoorden, and Chapter 5: Flexible Formality Practical Experience with Agile Formal Methods by Philipp Kant et al .
