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Certified Lightweight Non-interference Java Bytecode Verifier --
Controlling the What and Where of Declassification in Language-Based
Security -- Cost Analysis of Java Bytecode -- Logics and Correctness
Proofs -- On the Relationship Between Concurrent Separation Logic and
Assume-Guarantee Reasoning -- Abstract Predicates and Mutable
ADTs in Hoare Type Theory -- Structure of a Proof-Producing Compiler
for a Subset of Higher Order Logic -- Static Analysis and Abstract
Interpretation I -- Modular Shape Analysis for Dynamically
Encapsulated Programs -- Static Analysis by Policy Iteration on
Relational Domains -- Computing Procedure Summaries for
Interprocedural Analysis -- Small Witnesses for Abstract Interpretation-
Based Proofs -- Static Analysis and Abstract Interpretation II --
Interprocedurally Analysing Linear Inequality Relations -- Precise
Fixpoint Computation Through Strategy Iteration -- Semantic Theories
for Object Oriented Languages -- A Complete Guide to the Future --
The Java Memory Model: Operationally, Denotationally, Axiomatically --
Immutable Objects for a Java-Like Language -- Process Algebraic
Techniques -- Scalar Outcomes Suffice for Finitary Probabilistic Testing
-- Probabilistic Anonymity Via Coalgebraic Simulations -- A Fault
Tolerance Bisimulation Proof for Consensus (Extended Abstract) -- A
Core Calculus for a Comparative Analysis of Bio-inspired Calculi --
Applicative Programming -- A Rewriting Semantics for Type Inference
-- Principal Type Schemes for Modular Programs -- A Consistent
Semantics of Self-adjusting Computation -- Multi-language
Synchronization -- Types for Systems Properties -- Type-Based
Analysis of Deadlock for a Concurrent Calculus with Interrupts -- Type
Reconstruction for General Refinement Types -- Dependent Types for
Low-Level Programming.

| Sommario/riassunto | This book constitutes the refereed proceedings of the 16th European Symposium on Programming, ESOP 2007, held in Braga, Portugal in March/April 2007. It covers models and languages for Web services, verification, term rewriting, language based security, logics and correctness proofs, static analysis and abstract interpretation, semantic theories for object oriented languages, process algebraic techniques, applicative programming, and types for systems properties. |