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Disciplina	005.13122gerDNB
Soggetti	Computer programming Computer science Machine theory Compilers (Computer programs) Computer science—Mathematics Artificial intelligence Programming Techniques Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Compilers and Interpreters Symbolic and Algebraic Manipulation Artificial Intelligence
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Type Inference by Coinductive Logic Programming -- About the Formalization of Some Results by Chebyshev in Number Theory -- A New Elimination Rule for the Calculus of Inductive Constructions -- A Framework for the Analysis of Access Control Models for Interactive Mobile Devices -- Proving Infinitary Normalization -- First-Class Object

Sets -- Monadic Translation of Intuitionistic Sequent Calculus --
Towards a Type Discipline for Answer Set Programming -- Type
Inference for a Polynomial Lambda Calculus -- Local Theory
Specifications in Isabelle/Isar -- Axiom Directed Focusing -- A Type
System for Usage of Software Components -- Merging Procedural and
Declarative Proof -- Using Structural Recursion for Corecursion --
Manifest Fields and Module Mechanisms in Intensional Type Theory --
A Machine-Checked Proof of the Average-Case Complexity of
Quicksort in Coq -- Coalgebraic Reasoning in Coq: Bisimulation and
the ω -Coiteration Scheme -- A Process-Model for Linear Programs --
Some Complexity and Expressiveness Results on Multimodal and
Stratified Proof Nets.

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of TYPES 2008, the last of a series of meetings of the TYPES working group funded by the European Union between 1993 and 2008; the workshop has been held in Torino, Italy, in March 2008. The 19 revised full papers presented were carefully reviewed and selected from 27 submissions. The topic of the workshop was formal reasoning and computer programming based on type theory: languages and computerized tools for reasoning, and applications in several domains such as analysis of programming languages, certified software, mobile code, formalization of mathematics, mathematics education.
