1. Record Nr. UNINA9910483766003321

Titolo	Types for Proofs and Programs : International Workshop, TYPES 2006, Nottingham, UK, April 18-21, 2006, Revised Selected Papers / / edited by Thorsten Altenkirch, Conor McBride
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2007
ISBN	3-540-74464-9
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (VIII, 272 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4502
Altri autori (Persone)	AltenkirchThorsten <1962-> McBrideConor
Disciplina	005.13
Soggetti	Compilers (Computer programs) Computer science Machine theory Computer science - Mathematics Artificial intelligence Compilers and Interpreters Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Symbolic and Algebraic Manipulation Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Weyl’s Predicative Classical Mathematics as a Logic-Enriched Type Theory -- Crafting a Proof Assistant -- On Constructive Cut Admissibility in Deduction Modulo -- Fast Reflexive Arithmetic Tactics the Linear Case and Beyond -- Combining de Bruijn Indices and Higher-Order Abstract Syntax in Coq -- Deciding Equality in the Constructor Theory -- A Formalisation of a Dependently Typed Language as an Inductive-Recursive Family -- Truth Values Algebras and Proof Normalization -- Curry-Style Types for Nominal Terms -- (In)consistency of Extensions of Higher Order Logic and Type Theory -- Constructive Type Classes in Isabelle -- Zermelo’s Well-Ordering Theorem in Type Theory -- A Finite First-Order Theory of Classes --

Coinductive Correctness of Homographic and Quadratic Algorithms for Exact Real Numbers -- Using Intersection Types for Cost-Analysis of Higher-Order Polymorphic Functional Programs -- Subset Coercions in Coq -- A Certified Distributed Security Logic for Authorizing Code.

Sommario/riassunto

The refereed post-proceedings of the International Workshop of the Types Working Group are presented in this volume. The 17 papers address all current issues in formal reasoning and computer programming based on type theory, including languages and computerized tools for reasoning; applications in several domains, such as analysis of programming languages; certified software; formalization of mathematics; and mathematics education.