

1. Record Nr.	UNINA9910485038503321
Titolo	Types for Proofs and Programs : International Conference, TYPES 2007, Cividale del Friuli, Italy, May 2-5, 2007, Revised Selected Papers // edited by Marino Miculan, Ivan Scagnetto, Furio Honsell
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	3-540-68103-5
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (VII, 203 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4941
Classificazione	54.52
Altri autori (Persone)	MiculanMarino ScagnettoIvan HonsellFurio
Disciplina	005.13/1
Soggetti	Software engineering Computer science Machine theory Compilers (Computer programs) Computer science - Mathematics Artificial intelligence Software Engineering 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
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	Algorithmic Equality in Heyting Arithmetic Modulo -- CoqJVM: An Executable Specification of the Java Virtual Machine Using Dependent Types -- Dependently Sorted Logic -- Finiteness in a Minimalist Foundation -- A Declarative Language for the Coq Proof Assistant -- Characterising Strongly Normalising Intuitionistic Sequent Terms -- Intuitionistic vs. Classical Tautologies, Quantitative Comparison -- In the Search of a Naive Type Theory -- Verification of the Redecoration

Algorithm for Triangular Matrices -- A Logic for Parametric  
Polymorphism with Effects -- Working with Mathematical Structures in  
Type Theory -- On Normalization by Evaluation for Object Calculi --  
Attributive Types for Proof Erasure.

---

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of TYPES 2007, the concluding conference of the Types project, held in Cividale del Friuli, Italy, in May 2007. The 13 revised full papers presented were carefully reviewed and selected from 22 submissions. The topic of this last annual workshop of the Types Working Group was formal reasoning and computer programming based on type theory. Great importance was attached to languages and computerized tools for reasoning, and applications in several domains such as analysis of programming languages, certified software, formalization of mathematics and mathematics education.

---