1.	Record Nr.	UNISA996465861103316
	Titolo	Types for Proofs and Programs [[electronic resource]] : International Workshop, TYPES '95, Torino, Italy, June 5 - 8, 1995 Selected Papers / / edited by Stefano Berardi, Mario Coppo
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1996
	ISBN	3-540-70722-0
	Edizione	[1st ed. 1996.]
	Descrizione fisica	1 online resource (X, 298 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1158
	Disciplina	511.3/0285
	Soggetti	Mathematical logic
		Software engineering
		Computers
		Computer logic
		Programming languages (Electronic computers)
		Artificial intelligence
		Mathematical Logic and Formal Languages
		Software Engineering/Programming and Operating Systems
		Theory of Computation
		Logics and Meanings of Programs
		Programming Languages, Compilers, Interpreters
		Artificial Intelligence
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di contenuto	Implicit coercions in type systems -- A two-level approach towards lean proof-checking -- The greatest common divisor: A case study for program extraction from classical proofs -- Extracting a proof of coherence for monoidal categories from a proof of normalization for monoids -- A constructive proof of the Heine-Borel covering theorem for formal reals -- An application of constructive completeness -- Automating inversion of inductive predicates in Coq -- First order marked types -- Internal type theory -- An application of co-inductive types in Coq: Verification of the alternating bit protocol --

Conservativity of equality reflection over intensional type theory -- A natural deduction approach to dynamic logic -- An algorithm for checking incomplete proof objects in type theory with localization and unification -- Decidability of all minimal models -- Circuits as streams in Coq: Verification of a sequential multiplier -- Context-relative syntactic categories and the formalization of mathematical text -- A simple model construction for the Calculus of Constructions -- Optimized encodings of fragments of type theory in first order logic -- Organization and development of a constructive axiomatization.

| Sommario/riassunto | This volume contains a refereed selection of revised full papers chosen from the contributions presented during the Third Annual Workshop held under the auspices of the ESPRIT Basic Research Action 6453 Types for Proofs and Programs. The workshop took place in Torino, Italy, in June 1995. Type theory is a formalism in which theorems and proofs, specifications and programs can be represented in a uniform way. The 19 papers included in the book deal with foundations of type theory, logical frameworks, and implementations and applications; all in all they constitute a state-of-the-art survey for the area of type theory. |