

1. Record Nr.	UNINA9910780897403321
Titolo	Twenty-five years of constructive type theory [[electronic resource]] : proceedings of a congress held in Venice, October 1995 / / edited by Giovanni Sambin and Jan M. Smith
Pubbl/distr/stampa	Oxford, : Clarendon Press New York, : Oxford University Press, 1998
ISBN	0-19-191654-4 1-280-81972-3 9786610819720 0-19-158903-9
Descrizione fisica	1 online resource (292 p.)
Collana	Oxford logic guides ; ; 36 Oxford science publications
Altri autori (Persone)	SambinGiovanni SmithJan M
Disciplina	511.3
Soggetti	Type theory Logic, Symbolic and mathematical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: Oxford: Clarendon Press, 1998.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Contents; 1. Yet another constructivization of classical logic; 2. Extension of Martin-Lof's type theory with record types and subtyping; 3. Type-theoretical checking and philosophy of mathematics; 4. The Hahn-Banach theorem in type theory; 5. A realizability interpretation of Martin-Lof's type theory; 6. The groupoid interpretation of type theory; 7. Analytic program derivation in type theory; 8. An intuitionistic theory of types; 9. On storage operators; 10. On universes in type theory; 11. How to believe a machine-checked proof 12. Building up a toolbox for Martin-Lof's type theory: subset theory13. An introduction to well-ordering proofs in Martin-Lof's type theory; 14. Variable-free formalization of the Curry-Howard theory; 15. The forget-restore principle: a paradigmatic example
Sommario/riassunto	Martin-Lof type theory is an important and practical formalisation of the foundations of mathematics. This volume celebrates the 25th anniversary of the birth of the subject, and is a record of areas of

activity and of its early development.
