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	Autore	IFIP-TC3 Working conference on artificial intelligence tools in education
	Titolo	(Frascati, 1987) Artificial intelligence tools in education : proceedings of the IFIP TC3 Working conference on artificial intelligence tools in education, Frascati, Italy, 26-28 May, 1987 / edited by Paolo Ercoli, Robert Lewis
	Pubbl/distr/stampa	Amsterdam [etc.] : North-Holland, 1988
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	Descrizione fisica	VIII, 232 p. : ill. ; 24 cm
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	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910467145703321
	Autore	Probst Dieter
	Titolo	Concepts of proof in mathematics, philosophy, and computer science / / Dieter Probst and Peter Schuster
	Pubbl/distr/stampa	Berlin, [Germany] ; : , : De Gruyter, , 2016 ©2016
	ISBN	9781501502644 1-5015-0264-6 1-5015-0262-X
	Descrizione fisica	1 online resource (384 pages)
	Collana	Ontos Mathematical Logic, , 2198-2341 ; ; Volume 6
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	Soggetti	Proof theory Mathematics Logic, Symbolic and mathematical Electronic books.
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Herbrand Confluence for First-Order Proofs with 2-Cuts -- Proof-Oriented Categorical Semantics -- Logic for Gray-code Computation -- The Continuum Hypothesis Implies Excluded Middle -- Theories of Proof-Theoretic Strength (+1) -- Some Remarks about Normal Rings -- On Sets of Premises -- Non-Deterministic Inductive Definitions and Fullness -- Cyclic Proofs for Linear Temporal Logic -- Craig Interpolation via Hypersequents -- A General View on Normal Form Theorems for ukasiewicz Logic with Product -- Relating Quotient Completions via Categorical Logic -- Some Historical, Philosophical and Methodological Remarks on Proof in Mathematics -- Cut Elimination in Sequent Calculi with Implicit Contraction, with a Conjecture on the Origin of Gentzen's Altitude Line Construction -- Hilbert's Programme and Ordinal Analysis -- Aristotle's Deductive Logic: a Proof-Theoretical Study -- Remarks on Barr's Theorem: Proofs in Geometric Theories
Sommario/riassunto	A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the given context and agreed upon by the community. It is this concept that sets mathematics apart from other disciplines and distinguishes it as the prototype of a deductive science. Proofs thus are utterly relevant for research, teaching and communication in mathematics and of particular interest for the philosophy of mathematics. In computer science, moreover, proofs have proved to be a rich source for already certified algorithms. This book provides the reader with a collection of articles covering relevant current research topics circled around the concept 'proof'. It tries to give due consideration to the depth and breadth of the subject by discussing its philosophical and methodological aspects, addressing foundational issues induced by Hilbert's Programme and the benefits of the arising formal notions of proof, without neglecting reasoning in natural language proofs and applications in computer science such as program extraction.