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Titolo	The seventeen provers of the world // foreword by Dana S. Scott ; Freek Wiedijk (ed.)
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Descrizione fisica	1 online resource (XVI, 162 p.)
Collana	Lecture notes in computer science. Lecture notes in artificial intelligence, , 0302-9743 ; ; 3600
Altri autori (Persone)	WiedijkFreek <1961->
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Soggetti	Proof theory - Data processing Algebra - Computer programs
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Informal -- HOL -- Mizar -- PVS -- Coq -- Otter/Ivy -- Isabelle/Isar -- Alfa/Agda -- ACL2 -- PhoX -- IMPS -- Metamath -- Theorema -- Lego -- Nuprl -- ?mega -- B Method -- Minlog.
Sommario/riassunto	Commemorating the 50th anniversary of the first time a mathematical theorem was proven by a computer system, Freek Wiedijk initiated the present book in 2004 by inviting formalizations of a proof of the irrationality of the square root of two from scientists using various theorem proving systems. The 17 systems included in this volume are among the most relevant ones for the formalization of mathematics. The systems are showcased by presentation of the formalized proof and a description in the form of answers to a standard questionnaire. The 17 systems presented are HOL, Mizar, PVS, Coq, Otter/Ivy, Isabelle/Isar, Alfa/Agda, ACL2, PhoX, IMPS, Metamath, Theorema, Leog, Nuprl, Omega, B method, and Minlog.