1. Record Nr.   UNISA996465502503316

Titolo   Theorem Proving in Higher Order Logics [[electronic resource]] : 10th International Conference, TPHOLs'97, Murray Hill, NJ, USA, August 19-22, 1997, Proceedings / / edited by Elsa L. Gunter, Amy Felty

Pubbl/distr/stampa   Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997

ISBN   3-540-69526-5

Edizione   [1st ed. 1997.]

Descrizione fisica   1 online resource (X, 346 p.)

Collana   Lecture Notes in Computer Science, , 0302-9743 ; ; 1275

Disciplina   004/.01/5113

Soggetti   Architecture, Computer
Computers
Mathematical logic
Logic design
Software engineering
Computer logic
Computer System Implementation
Theory of Computation
Mathematical Logic and Formal Languages
Logic Design
Software Engineering
Logics and Meanings of Programs

Lingua di pubblicazione   Inglese

Formato   Materiale a stampa

Livello bibliografico   Monografia

Note generali   Bibliographic Level Mode of Issuance: Monograph

Nota di contenuto   An Isabelle-based theorem prover for VDM-SL -- Executing formal specifications by translation to higher order logic programming -- Human-style theorem proving using PVS -- A hybrid approach to verifying liveness in a symmetric multi-processor -- Formal verification of concurrent programs in Lp and in Coq: A comparative analysis -- ML programming in constructive type theory -- Possibly infinite sequences in theorem provers: A comparative study -- Proof normalization for a first-order formulation of higher-order logic -- Using a PVS embedding of CSP to verify authentication protocols -- Verifying the accuracy of

polynomial approximations in HOL -- A full formalisation of ?-calculus theory in the calculus of constructions -- Rewriting, decision procedures and lemma speculation for automated hardware verification -- Refining reactive systems in HOL using action systems -- On formalization of bicategory theory -- Towards an object-oriented progification language -- Verification for robust specification -- A theory of structured model-based specifications in Isabelle/HOL -- Proof presentation for Isabelle -- Derivation and use of induction schemes in higher-order logic -- Higher order quotients and their implementation in Isabelle HOL -- Type classes and overloading in higher-order logic -- A comparative study of Coq and HOL.

Sommario/riassunto	This book constitutes the refereed proceedings of the 10th International Conference on Theorem Proving in Higher Order Logics, TPHOLs '97, held in Murray Hill, NJ, USA, in August 1997. The volume presents 19 carefully revised full papers selected from 32 submissions during a thorough reviewing process. The papers cover work related to all aspects of theorem proving in higher order logics, particularly based on secure mechanization of those logics; the theorem proving systems addressed include Coq, HOL, Isabelle, LEGO, and PVS.