Record Nr. UNINA9910143491503321 Theorem Proving in Higher Order Logics [[electronic resource]]: 11th **Titolo** International Conference, TPHOLs'98, Canberra, Australia, September 27 - October 1, 1998, Proceedings / / edited by Jim Grundy, Malcolm Newey Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, 1998 **ISBN** 3-540-49801-X Edizione [1st ed. 1998.] Descrizione fisica 1 online resource (IX, 496 p.) Lecture Notes in Computer Science, , 0302-9743;; 1479 Collana Disciplina 004/.01/5113 Soggetti Computer logic Artificial intelligence Software engineering Mathematical logic Logic design Logics and Meanings of Programs Artificial Intelligence Software Engineering/Programming and Operating Systems Mathematical Logic and Formal Languages Software Engineering Logic Design Lingua di pubblicazione Inglese Formato Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di contenuto Verified lexical analysis -- Extending window inference -- Program abstraction in a higher-order logic framework -- The village telephone system: A case study in formal software engineering -- Generating embeddings from denotational descriptions -- An interface between CLAM and HOL -- Classical propositional decidability via Nuprl proof extraction -- A comparison of PVS and Isabelle/HOL -- Adding external decision procedures to HOL90 securely -- Formalizing basic first order

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## Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Theorem Proving in Higher Order Logics, TPHOLs '98, held in Canberra, Australia, in September/October 1998. The 26 revised full papers presented were carefully reviewed and selected from a total of 52 submissions. Also included are two invited papers. The papers address all current aspects of theorem proving in higher order logics and formal verification and program analysis. Besides the HOL system, the theorem provers Coq, Isabelle, LAMBDA, LEGO, NuPrl, and PVS are discussed.