1. Record Nr. UNISA996465339003316 Theorem Proving in Higher Order Logics [[electronic resource]]: 21st **Titolo** International Conference, TPHOLs 2008, Montreal, Canada, August 18-21, 2008, Proceedings / / edited by Otmane Ait Mohamed, César Munoz, Sofiène Tahar Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, 2008 **ISBN** 3-540-71067-1 Edizione [1st ed. 2008.] Descrizione fisica 1 online resource (X, 321 p.) Theoretical Computer Science and General Issues, , 2512-2029;; 5170 Collana Disciplina 004.015113 Soggetti Compilers (Computer programs) Computer systems Software engineering Machine theory Computer science Compilers and Interpreters Computer System Implementation Software Engineering Formal Languages and Automata Theory Computer Science Logic and Foundations of Programming Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Invited Papers -- Twenty Years of Theorem Proving for HOLs Past, Present and Future -- Will This Be Formal? -- Tutorials -- A Short Presentation of Cog -- An ACL2 Tutorial -- A Brief Overview of PVS --A Brief Overview of HOL4 -- The Isabelle Framework -- Regular Papers -- A Compiled Implementation of Normalization by Evaluation -- LCF-Style Propositional Simplification with BDDs and SAT Solvers --

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## Sommario/riassunto

This book constitutes the refereed proceedings of the 21st International Conference on Theorem Proving in Higher Order Logics, TPHOLs 2008, held in Montreal, Canada, in August 2008. The 17 revised full papers presented together with 1 proof pearl (concise and elegant presentations of interesting examples), 5 tool presentations, and 2 invited papers were carefully reviewed and selected from 40 submissions. The papers cover all aspects of theorem proving in higher order logics as well as related topics in theorem proving and verification such as formal semantics of specification, modeling, and programming languages, specification and verification of hardware and software, formalisation of mathematical theories, advances in theorem prover technology, as well as industrial application of theorem provers.