

1. Record Nr.	UNINA9910744597803321
Autore	Hajek Petr
Titolo	Gödel '96 : Logical Foundations of Mathematics, Computer Science and Physics -- Kurt Gödel's Legacy
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer, , 1996 ©1996
ISBN	3-662-21963-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (332 pages)
Collana	Lecture Notes in Logic ; ; v.6
Altri autori (Persone)	GirardJ.-Y LachlanAlistair H
Disciplina	511.3
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Lecture Notes in Logic 6 Godel '96 Logical Foundations of Mathematics, Computer Science and Physics - Kurt Godel's Legacy -- Godel '96 -- Copyright -- Preface -- Table of Contents -- Part I Invited Papers -- Godel's program for new axioms: Why, where, how and what? -- Infinite-valued Godel Logics with 0-1-Projections and Relativizations * -- Contributions of K. Godel to Relativity and Cosmology * -- Kurt Godel and the constructive Mathematics of A.A. Markov -- Hao Wang as Philosopher -- A bottom-up approach to foundations of mathematics * -- K-graph Machines: generalizing Turing's machines and arguments * -- Forcing on Bounded Arithmetic -- Uniform Interpolation and Layered Bisimulation * -- Part II Contributed Papers -- Godel's Ontological Proof Revisited * -- A Uniform Theorem Proving Tableau Method for Modal Logic* -- Decidability of the **-Class in the Membership Theory NWL * -- A Logical Approach to Complexity Bounds for Subtype Inequalities -- How to characterize provably total functions by the Buchholz operator method * -- Completeness has to be restricted: Godel's interpretation of the parameter t * -- A Bounded Arithmetic Theory for Constant Depth Threshold Circuits* -- Information content and computational complexity of recursive sets * -- Kurt Godel and the Consistency of R##* -- Best possible answer is computable for fuzzy SLD-resolution * -- The finite stages of inductive definitions * -- Godel and the Theory of Everything * -- Replacement

Sommario/riassunto

The aim of the conference Logical Foundations of Mathematics, Computer Science and Physics - Kurt Gödel's Legacy (GO DEL '96), organized to the occasion of the ninetieth anniversary of the birth of Kurt Gödel, is to pay tribute to Kurt Gödel by arranging a scientific event presenting a forum for papers relevant to foundational aspects of Logic in Mathematics, Computer Science, Philosophy and Physics - areas influenced by Kurt Gödel's work. The conference has been organized in Brno, the birthplace of Gödel, by Masaryk University Brno in co-operation with the Institute of Computer Science of the Academy of Sciences of the Czech Republic, Prague, and with the international Kurt Gödel Society based in Vienna (Organizing Committee chaired by J. Zlatuska). The Association for Symbolic Logic has recognized the conference as an ASL sponsored meeting. The Program Committee has consisted of Z. Adamowicz, Warsaw; J. Bicák, Prague; L. Bukovsky, Košice; D. de Jongh, Amsterdam; J. Grygar, Prague; E. Kohler, Vienna; J. Krajicek, Prague; P. Hájek (chair), Prague; A. Leitsch, Vienna; D. Mundici, Milano; G. Müller, Heidelberg; J. Paris, Manchester; C. Parsons, Harvard.