1. Record Nr.   UNINA9910958587403321

   Titolo   Logic, construction, computation / / Ulrich Berger ... [et al.] (eds.)

   Pubbl/distr/stampa Heusenstamm [Germany], : ontos, 2012

   ISBN   3-11-032492-X

   Descrizione fisica 1 online resource (544 p.)

   Collana   Ontos Mathematical Logic ; ; 3
                       Ontos mathematical logic ; ; v. 3

   Altri autori (Persone) BergerUlrich

   Disciplina   510

   Soggetti   Logic
                       Computational neuroscience

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Note generali   Description based upon print version of record.

   Nota di bibliografia Includes bibliographical references.

   Nota di contenuto   Front matter -- Preface / Berger, Ulrich / Diener, Hannes / Schuster,
                       Peter / Seisenberger, Monika -- Contents -- Contributors -- A New
                       Use of Friedman's Translation: Interactive Realizability / Aschieri,
                       Federico / Berardi, Stefano -- Polymorphic Logic / Bickford, Mark /
                       Robert, Constable -- Constructive Solutions of Ordinary Differential
                       Equations / Bridges, Douglas S. -- A Nonstandard Hierarchy
                       Comparison Theorem for the Slow and Fast Growing Hierarchy /
                       Buchholz, Wilfried / Weiermann, Andreas -- Conservativity of transitive
                       closure over weak constructive operational set theory / Cantini, Andrea
                       / Crosilla, Laura -- Formal Baire Space in Constructive Set Theory /
                       Curi, Giovanni / Rathjen, Michael -- Functional Interpretations of
                       Classical and Constructive Set Theory / Diller, Justus -- Weak Theories
                       of Truth and Explicit Mathematics / Eberhard, Sebastian / Strahm,
                       Thomas -- Axiomatizing Truth: Why and How? / Feferman, Solomon --
                       On the Strength of some Semi-Constructive Theories / Feferman,
                       Solomon -- On the Relation Between Various Negative Translations /
                       Ferreira, Gilda / Oliva, Paulo -- A Finite Axiomatisation of Inductive-
                       Inductive Definitions / Forsberg, Fredrik Nordvall / Setzer, Anton --
                       Some Conservative Extension Results on Classical and Intuitionistic
                       Sequent Calculi / Ishihara, Hajime -- About the Strength of Operational
                       Regularity / Jäger, Gerhard / Zumbrunnen, Rico -- Non-Deterministic
                       Epsilon Substitution for ID1: Effective Proof / Mints, Grigori -- Another

Unique Weak König's Lemma WKL!! / Moschovakis, Joan Rand -- The Continuous Functionals as Limit Spaces / Normann, Dag -- Provably Recursive Functions of Reflection / Pohlers, Wolfram / Stegert, Jan-Carl -- A Hierarchy of Ramified Theories Below PRA / Spoors, Elliott J. / Wainer, Stanley S. -- Representing L-Domains as Information Systems / Spreen, Dieter

Sommario/riassunto	Over the last few decades the interest of logicians and mathematicians in constructive and computational aspects of their subjects has been steadily growing, and researchers from disparate areas realized that they can benefit enormously from the mutual exchange of techniques concerned with those aspects. A key figure in this exciting development is the logician and mathematician Helmut Schwichtenberg to whom this volume is dedicated on the occasion of his 70th birthday and his turning emeritus. The volume contains 20 articles from leading experts about recent developments in Constructive set...