PROOF AND COMPUTATION II

From Proof Theory and Univalent Mathematics to Program Extraction and Verification

Editions

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Proof And Computation

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Proof and Computation Helmut Schwichtenberg, 2012-12-06 Logical concepts and methods are of growing importance in many areas of computer science The proofs as programs paradigm and the wide acceptance of Prolog show this clearly The logical notion of a formal proof in various constructive systems can be viewed as a very explicit way to describe a computation procedure Also conversely the development of logical systems has been influenced by accumulating knowledge on rewriting and unification techniques This volume contains a series of lectures by leading researchers giving a presentation of new ideas on the impact of the concept of a formal proof on computation theory. The subjects covered are specification and abstract data types proving techniques constructive methods linear logic and concurrency and logic Computation Ii: From Proof Theory And Univalent Mathematics To Program Extraction And Verification Klaus Mainzer, Helmut Schwichtenberg, Peter Michael Schuster, 2021-07-27 This book is for graduate students and researchers introducing modern foundational research in mathematics computer science and philosophy from an interdisciplinary point of view Its scope includes proof theory constructive mathematics and type theory univalent mathematics and point free approaches to topology extraction of certified programs from proofs automated proofs in the automotive industry as well as the philosophical and historical background of proof theory By filling the gap between under graduate level textbooks and advanced research papers the book gives a scholarly account of recent developments and emerging branches of the Proofs and Computations Helmut Schwichtenberg, Stanley S. Wainer, 2011-12-15 Driven by the aforementioned fields question What is the computational content of a formal proof this book studies fundamental interactions between proof theory and computability It provides a unique self contained text for advanced students and researchers in mathematical logic and computer science Part I covers basic proof theory computability and G del s theorems Part II studies and classifies provable recursion in classical systems from fragments of Peano arithmetic up to 11 CAO Ordinal analysis and the Schwichtenberg Wainer subrecursive hierarchies play a central role and are used in proving the modified finite Ramsey and extended Kruskal independence results for PA and 11 CAO Part III develops the theoretical underpinnings of the first author s proof assistant MINLOG Three chapters cover higher type computability via information systems a constructive theory TCF of computable functionals realizability Dialectica interpretation computationally significant quantifiers and connectives and polytime complexity in a two sorted higher type arithmetic with linear logic **Proof, Computation and Agency** Johan van Benthem, Amitabha Gupta, Rohit Parikh, 2011-04-02 Proof Computation and Agency Logic at the Crossroads provides an overview of modern logic and its relationship with other disciplines As a highlight several articles pursue an inspiring paradigm called social software which studies patterns of social interaction using techniques from logic and computer science The book also demonstrates how logic can join forces with game theory and social choice theory A second main line is the logic language cognition connection where the articles collected here bring several fresh perspectives Finally the book

takes up Indian logic and its connections with epistemology and the philosophy of science showing how these topics run naturally into each other Concepts of Proof in Mathematics, Philosophy, and Computer Science Dieter Probst, Peter Schuster, 2016-07-25 A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the given context and agreed upon by the community It is this concept that sets mathematics apart from other disciplines and distinguishes it as the prototype of a deductive science Proofs thus are utterly relevant for research teaching and communication in mathematics and of particular interest for the philosophy of mathematics In computer science moreover proofs have proved to be a rich source for already certified algorithms This book provides the reader with a collection of articles covering relevant current research topics circled around the concept proof It tries to give due consideration to the depth and breadth of the subject by discussing its philosophical and methodological aspects addressing foundational issues induced by Hilbert's Programme and the benefits of the arising formal notions of proof without neglecting reasoning in natural language proofs and applications in computer science such as program Proceedings of the Logic Colloquium. Held in Aachen, July 18-23, 1983 M. M. Richter, E. Börger, W. extraction Oberschelp, B. Schinzel, W. Thomas, 1984-12-01 *Proof and Computation* Klaus Mainzer, Peter Schuster, Helmut Schwichtenberg, 2018 Computation and Proof Theory Michael M. Richter, 1984 *Proceedings of the Logic Colloquium.* Held in Aachen, July 18-23, 1983 M. M. Richter, E. Börger, W. Oberschelp, B. Schinzel, W. Thomas, 2006-12-08 Logic and Computation Lawrence C. Paulson, 1987 This book is concerned with techniques for formal theorem proving with particular reference to Cambridge LCF Logic for Computable Functions Cambridge LCF is a computer program for reasoning about computation It combines the methods of mathematical logic with domain theory the basis of the denotational approach to specifying the meaning of program statements Cambridge LCF is based on an earlier theorem proving system Edinburgh LCF which introduced a design that gives the user flexibility to use and extend the system A goal of this book is to explain the design which has been adopted in several other systems The book consists of two parts Part I outlines the mathematical preliminaries elementary logic and domain theory and explains them at an intuitive level giving reference to more advanced reading Part II provides sufficient detail to serve as a reference manual for Cambridge LCF It will also be a useful guide for implementors of other programs based on the LCF approach **Proof, Computation and Agency** Johan van Benthem, Amitabha Gupta, Rohit Parikh, 2011-04-07 Proof Computation and Agency Logic at the Crossroads provides an overview of modern logic and its relationship with other disciplines As a highlight several articles pursue an inspiring paradigm called social software which studies patterns of social interaction using techniques from logic and computer science The book also demonstrates how logic can join forces with game theory and social choice theory A second main line is the logic language cognition connection where the articles collected here bring several fresh perspectives Finally the book takes up Indian logic and its connections with epistemology and the philosophy of science showing how these topics run

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Computation and Proof Theory Michael M. Richter, 1984 Computational Logic and Proof Theory Georg Gottlob, Alexander Leitsch, Daniele Mundici, 1997-08-13 This book constitutes the refereed proceedings of the 5th Kurt G del Colloquium on Computational Logic and Proof Theory KGC 97 held in Vienna Austria in August 1997 The volume presents 20 revised full papers selected from 38 submitted papers Also included are seven invited contributions by leading experts in the area The book documents interdisciplinary work done in the area of computer science and mathematical logics by combining research on provability analysis of proofs proof search and complexity Methods and Results U.S. Coast and Geodetic Survey,1882 **Proof and Computation** Bijan J. Parsia, 1993 Special Publication ,1950 **Modeling and Simulation** ,1985 Statutes of Tasmania from 7th George 4th (1826) to 46th Victoria (1882) Tasmania, 1884 **Proof Technology** and Computation Helmut Schwichtenberg, Katharina Spies, 2006 Proof technology aims at integrating proof processing into industrial design and verifications tools The chapters in this book deal with the benefits and technical challenges of sharing formal mathematics among interactive theorem provers proof normalization for various axiomatic theories and more

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web aug 8 2014 the present monograph focuses on applications of one branch of dynamics ergodic theory to the geometry of fractals much attention is given to the all important notion of fractal