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Computation as Logic

Rene Laëssle



Reduction And Resolution Computation And Logic

E. Börger



Reduction And Resolution Computation And Logic:

Computability, Complexity, Logic E. Börger, 1989-07-01 The theme of this book is formed by a pair of concepts the concept of formal language as carrier of the precise expression of meaning facts and problems and the concept of algorithm or calculus i e a formally operating procedure for the solution of precisely described questions and problems The book is a unified introduction to the modern theory of these concepts to the way in which they developed first in mathematical logic and computability theory and later in automata theory and to the theory of formal languages and complexity theory Apart from considering the fundamental themes and classical aspects of these areas the subject matter has been selected to give priority throughout to the new aspects of traditional questions results and methods which have developed from the needs or knowledge of computer science and particularly of complexity theory It is both a textbook for introductory courses in the above mentioned disciplines as well as a monograph in which further results of new research are systematically presented and where an attempt is made to make explicit the connections and analogies between a variety of concepts and constructions

Logic-Based Methods for Optimization John Hooker, 2011-09-28 A pioneering look at the fundamental role of logic in optimization and constraint satisfaction While recent efforts to combine optimization and constraint satisfaction have received considerable attention little has been said about using logic in optimization as the key to unifying the two fields Logic Based Methods for Optimization develops for the first time a comprehensive conceptual framework for integrating optimization and constraint satisfaction then goes a step further and shows how extending logical inference to optimization allows for more powerful as well as flexible modeling and solution techniques Designed to be easily accessible to industry professionals and academics in both operations research and artificial intelligence the book provides a wealth of examples as well as elegant techniques and modeling frameworks ready for implementation Timely original and thought provoking Logic Based Methods for Optimization Demonstrates the advantages of combining the techniques in problem solving Offers tutorials in constraint satisfaction constraint programming and logical inference Clearly explains such concepts as relaxation cutting planes nonserial dynamic programming and Bender's decomposition Reviews the necessary technologies for software developers seeking to combine the two techniques Features extensive references to important computational studies And much more

Logic Programming and Automated Reasoning Andrei Voronkov, 1993-06-29 LPAR is an international conference series aimed at bringing together researchers interested in logic programming and automated reasoning The research in logic programming grew out of the research in automated reasoning in the early 1970s Later the implementation techniques known from logic programming were used in implementing theorem proving systems Results from both fields applied to deductive databases This volume contains the proceedings of LPAR 93 which was organized by the Russian Association for Logic Programming The volume contains 35 contributed papers selected from 84 submissions together with an invited paper by Peter Wegner entitled Reasoning versus modeling in computer science

Computational Logic: Logic Programming and Beyond Antonis C. Kakas, Fariba Sadri, 2003-08-02 Alan Robinson

This set of essays pays tribute to Bob Kowalski on his 60th birthday an anniversary which gives his friends and colleagues an excuse to celebrate his career as an original thinker a charismatic communicator and a forceful intellectual leader The logic programming community hereby and herein conveys its respect and thanks to him for his pivotal role in creating and fostering the conceptual paradigm which is its raison d tre The diversity of interests covered here reflects the variety of Bob s concerns Read on It is an intellectual feast Before you begin permit me to send him a brief personal but public message Bob how right you were and how wrong I was I should explain When Bob arrived in Edinburgh in 1967 resolution was as yet fairly new having taken several years to become at all widely known Research groups to investigate various aspects of resolution sprang up at several institutions the one organized by Bernard Meltzer at Edinburgh University being among the first For the half dozen years that Bob was a leading member of Bernard s group I was a frequent visitor to it and I saw a lot of him We had many discussions about logic computation and language

Handbook of Philosophical Logic D.M. Gabbay, Franz Guenther, 2005-12-15 Intended to comprise some 18 volumes and provides an in depth coverage of major topics in philosophical logic and its applications in many fields relating to computer science language argumentation and more This work is aimed at students and researchers whose work or interests involve philosophical logic and its applications

Logical Foundations for Cognitive Agents Hector J. Levesque, Fiora Pirri, 2012-12-06 It is a pleasure and an honor to be able to present this collection of papers to Ray Reiter on the occasion of his 60th birthday To say that Ray s research has had a deep impact on the field of Artificial Intelligence is a considerable understatement Better to say that anyone thinking of doing work in areas like deductive databases default reasoning diagnosis reasoning about action and others should realize that they are likely to end up proving corollaries to Ray s theorems Sometimes studying related work makes us think harder about the way we approach a problem studying Ray s work is as likely to make us want to drop our way of doing things and take up his This is because more than a mere visionary Ray has always been a true leader He shows us how to proceed not by pointing from his armchair but by blazing a trail himself setting up camp and waiting for the rest of us to arrive The International Joint Conference on Artificial Intelligence clearly recognized this and awarded Ray its highest honor the Research Excellence award in 1993 before it had even finished acknowledging all the founders of the field The papers collected here sample from many of the areas where Ray has done pioneering work One of his earliest areas of application was databases and this is reflected in the chapters by Bertossi et al and the survey chapter by Minker

Computational Logic Ulrich Berger, Helmut Schwichtenberg, 2012-12-06 Recent developments in computer science clearly show the need for a better theoretical foundation for some central issues Methods and results from mathematical logic in particular proof theory and model theory are of great help here and will be used much more in future than previously This book provides an excellent introduction to the interplay of mathematical logic and computer science It contains extensively reworked versions

of the lectures given at the 1997 Marktoberdorf Summer School by leading researchers in the field Topics covered include proof theory and specification of computation J Y Girard D Miller complexity of proofs and programs S R Buss S S Wainer computational content of proofs H Schwichtenberg constructive type theory P Aczel H Barendregt R L Constable computational mathematics U Martin rewriting logic J Meseguer and game semantics S Abramski

Logic, Algebra, and Computation Friedrich L. Bauer, 2012-12-06 The Marktoberdorf Summer Schools on Informatics were started in 1970 with the intention to convene every second or third year a group of top researchers in computing devoted to preach their most recent results to an elite of advanced students young and most promising people and prepared to stand their questions criticism and suggestions The themes of these Advanced Study Institutes under the sponsorship of the NATO Scientific Affairs Division varied slightly over the years oscillating more or less around Programming Methodology as the following list shows 1970 Data Structures and Computer Systems 1971 Program Structures and Fundamental Concepts of Programming 1973 Structured Programming and Programmed Structures 1975 Language Hierarchies and Interfaces 1978 Program Construction 1981 Theoretical Foundations of Programming Methodology 1984 Control Flow and Data Flow Concepts of Distributed Programming 1986 Logic of Programming and Calculi of Discrete Design 1988 Constructive Methods in Computing Science 1989 Logic Algebra and Computation Logic Algebra and Computation is the theme of the summer school to which this volume is devoted It is the tenth in succession but it is also the first in a new series the blue series that is intended to alternate in future with the traditional the red series arrangement in fact the tenth summer school in the red series with the title Programming and Mathematical Method held in 1990 was the subject of celebrating both its serial number and the twenty years of Marktoberdorf Summer Schools altogether

Optimization Methods for Logical Inference Vijay Chandru, John Hooker, 2011-09-26 Merging logic and mathematics in deductive inference an innovative cutting edge approach Optimization methods for logical inference Absolutely say Vijay Chandru and John Hooker two major contributors to this rapidly expanding field And even though solving logical inference problems with optimization methods may seem a bit like eating sauerkraut with chopsticks it is the mathematical structure of a problem that determines whether an optimization model can help solve it not the context in which the problem occurs Presenting powerful proven optimization techniques for logic inference problems Chandru and Hooker show how optimization models can be used not only to solve problems in artificial intelligence and mathematical programming but also have tremendous application in complex systems in general They survey most of the recent research from the past decade in logic optimization interfaces incorporate some of their own results and emphasize the types of logic most receptive to optimization methods propositional logic first order predicate logic probabilistic and related logics logics that combine evidence such as Dempster Shafer theory rule systems with confidence factors and constraint logic programming systems Requiring no background in logic and clearly explaining all topics from the ground up Optimization Methods for Logical Inference is an invaluable guide for scientists and students in

diverse fields including operations research computer science artificial intelligence decision support systems and engineering Resolution Methods for the Decision Problem C. Fermüller, 1993-07-29 This volume contains work on the decision problem done in Kazan Russia Tallinn Estonia and Vienna Austria The authors met several times to discuss and exchange their results and finally decided to write this monograph together Besides a unified treatment of previously published results there are many new results first presented in this volume The monograph opens with an introduction and a chapter on terminology followed by chapters on Semantic clash resolution as decision procedure Completeness of ordering refinements Semantic tree based resolution variants Deciding the class K by an ordering refinement A resolution based method for building finite models A final chapter on applications completes the volume

The Enigmatic Realm of **Reduction And Resolution Computation And Logic**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Reduction And Resolution Computation And Logic** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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