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Computation as Logic

Rene Laëssle



Reduction And Resolution Computation And Logic

John Hooker



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

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 **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'être 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

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 *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 **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 *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 Applied Computational Intelligence Da Ruan, 2004 Investigation of new developments and technical limits on applied computational intelligence Demonstration of added value of applied computational intelligence Presentation of direct and potential real world applications of applied computational intelligence **Applied Computational Intelligence, Proceedings Of The 6th International Flins Conference** Da Ruan, Pierre D'hondt, Etienne E Kerre, Martine De Cock, Mike Nachttegaal, 2004-08-17 FLINS originally an acronym for Fuzzy Logic and Intelligent technologies in Nuclear Science has now been extended to include computational intelligent systems for applied research FLINS 2004 is the sixth in a series of

international conferences covers state of the art research and development in applied computational intelligence for applied research in general and for power nuclear engineering in particular This book presents the latest research trends and future research directions in the field The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

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

Logical Aspects of Computational Linguistics. Celebrating 20 Years of LACL (1996-2016) Maxime Amblard, Philippe de Groote, Sylvain Pogodalla, Christian Retoré, 2016-11-21 Edited under the auspices of the Association of Logic Language and Information FoLLI this book constitutes the refereed proceedings of the 20th anniversary of the International Conference on Logical Aspects of Computational Linguistics LACL 2016 held in LORIA Nancy France in December 2016 The 19 contributed papers presented together with 4 invited papers and 6 abstracts were carefully reviewed and selected from 38 submissions The focus of the conference is the use of type theoretic proof theoretic and model theoretic methods for describing and formalising natural language syntax semantics and pragmatics as well as the implementation of the corresponding tools

Logical Foundations Of Computer Science (In 2 Volumes) Peter A Fejer, Dan A Simovici, 2024-07-30 Logic is a foundational mathematical discipline for Computer Science This unique compendium provides the main ideas and techniques originating from logic It is divided into two volumes propositional logic and predicate logic The volume presents some of the most important concepts starting with a variety of logic formalisms Hilbert Frege systems tableaux sequents and natural deduction in both propositional and first order logic as well as

transformations between these formalisms Topics like circuit design resolution cutting planes Hintikka sets paramodulation and program verification which do not appear frequently in logic books are discussed in detail The useful reference text has close to 800 exercises and supplements to deepen understanding of the subject It emphasizes proofs and overcomes technical difficulties by providing detailed arguments Computer scientists and mathematicians will benefit from this volume

Logic, Language, Information, and Computation George Metcalfe, Thomas Studer, Ruy de Queiroz, 2024-06-07 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 30th International Workshop on Logic Language Information and Computation WoLLIC 2024 held in Bern Switzerland during June 10 13 2024 The 18 full papers included in this book were carefully reviewed and selected from 37 submissions This book also contains six invited abstracts The WoLLIC conference series aims at fostering interdisciplinary research in pure and applied logic

Parallel and Constraint Logic Programming Ioannis Vlahavas, Panagiotis Tsarchopoulos, Ilias Sakellariou, 2012-12-06 Constraint Logic Programming CLP an area of extreme research interest in recent years extends the semantics of Prolog in such a way that the combinatorial explosion a characteristic of most problems in the field of Artificial Intelligence can be tackled efficiently By employing solvers dedicated to each domain instead of the unification algorithm CLP drastically reduces the search space of the problem which leads to increased efficiency in the execution of logic programs CLP offers the possibility of solving complex combinatorial problems in an efficient way and at the same time maintains the advantages offered by the declarativeness of logic programming The aim of this book is to present parallel and constraint logic programming offering a basic understanding of the two fields to the reader new to the area The first part of the book gives an introduction to the fundamental aspects of conventional logic programming which is necessary for understanding the parts that follow The second part includes an introduction to parallel logic programming architectures and implementations proposed in the area Finally the third part presents the principles of constraint logic programming The last two parts also include descriptions of the supporting facilities for the two paradigms in two popular systems ECLIPSe and SICStus These platforms have been selected mainly because they offer both parallel and constraint features Annotated and explained examples are also included in the relevant parts offering a valuable guide and a first practical experience to the reader Finally applications of the covered paradigms are presented The authors felt that a book of this kind should provide some theoretical background necessary for the understanding of the covered logic programming paradigms and a quick start for the reader interested in writing parallel and constraint logic programming programs However it is outside the scope of this book to provide a deep theoretical background of the two areas In that sense this book is addressed to a public interested in obtaining a knowledge of the domain without spending the time and effort to understand the extensive theoretical work done in the field namely postgraduate and advanced undergraduate students in the area of logic programming This book fills a gap in the current bibliography since there is no comprehensive

book of this level that covers the areas of conventional parallel and constraint logic programming Parallel and Constraint Logic Programming An Introduction to Logic Parallelism and Constraints is appropriate for an advanced level course on Logic Programming or Constraints and as a reference for practitioners and researchers in industry **Advanced**

Algorithms and Architectures for Speech Understanding Giancarlo Pirani,2013-11-09 This book is intended to give an overview of the major results achieved in the field of natural speech understanding inside ESPRIT Project P 26 Advanced Algorithms and Architectures for Speech and Image Processing The project began as a Pilot Project in the early stage of Phase 1 of the ESPRIT Program launched by the Commission of the European Communities After one year in the light of the preliminary results that were obtained it was confirmed for its 5 year duration Even though the activities were carried out for both speech and image understanding we preferred to focus the treatment of the book on the first area which crystallized mainly around the CSELT team with the valuable cooperation of AEG Thomson CSF and Politecnico di Torino Due to the work of the five years of the project the Consortium was able to develop an actual and complete understanding system that goes from a continuously spoken natural language sentence to its meaning and the consequent access to a database When we started in 1983 we had some expertise in small vocabulary syntax driven connected word speech recognition using Hidden Markov Models in written natural language understanding and in hardware design mainly based upon bit slice microprocessors **Programming Logics** Andrei Voronkov,Christoph Weidenbach,2013-04-05 This Festschrift volume published in memory of Harald Ganzinger contains 17 papers from colleagues all over the world and covers all the fields to which Harald Ganzinger dedicated his work during his academic career The volume begins with a complete account of Harald Ganzinger's work and then turns its focus to the research of his former colleagues students and friends who pay tribute to him through their writing Their individual papers span a broad range of topics including programming language semantics analysis and verification first order and higher order theorem proving unification theory non classical logics reasoning modulo theories and applications of automated reasoning in biology **Bridging the Gap: Philosophy,**

Mathematics, and Physics Giovanna Corsi,Maria Luisa Dalla Chiara,G. C. Ghirardi,1993 Foundational questions in logic mathematics computer science and physics are constant sources of epistemological debate in contemporary philosophy To what extent is the transfinite part of mathematics completely trustworthy Why is there a general malaise concerning the logical approach to the foundations of mathematics What is the role of symmetry in physics Is it possible to build a coherent worldview compatible with a macroobjectivistic position and based on the quantum picture of the world What account can be given of opinion change in the light of new evidence These are some of the questions discussed in this volume which collects 14 lectures on the foundation of science given at the School of Philosophy of Science Trieste October 1989 The volume will be of particular interest to any student or scholar engaged in interdisciplinary research into the foundations of science in the context of contemporary debates *Logic for Computer Science* Jean H. Gallier,2015-05-18 This advanced text for

undergraduate and graduate students introduces mathematical logic with an emphasis on proof theory and procedures for algorithmic construction of formal proofs The self contained treatment is also useful for computer scientists and mathematically inclined readers interested in the formalization of proofs and basics of automatic theorem proving Topics include propositional logic and its resolution first order logic Gentzen s cut elimination theorem and applications and Gentzen s sharpened Hauptsatz and Herbrand s theorem Additional subjects include resolution in first order logic SLD resolution logic programming and the foundations of PROLOG and many sorted first order logic Numerous problems appear throughout the book and two Appendixes provide practical background information

Decoding **Reduction And Resolution Computation And Logic**: Revealing the Captivating Potential of Verbal Expression

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