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Goal-Directed Proof Theory

Dov M. Gabbay
Nicola Olivetti



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Goal Directed Proof Theory

Lev D. Beklemishev, Ruy de Queiroz



Goal Directed Proof Theory:

Goal-Directed Proof Theory Dov M. Gabbay, N. Olivetti, 2013-04-17 Goal Directed Proof Theory presents a uniform and coherent methodology for automated deduction in non classical logics the relevance of which to computer science is now widely acknowledged The methodology is based on goal directed provability It is a generalization of the logic programming style of deduction and it is particularly favourable for proof search The methodology is applied for the first time in a uniform way to a wide range of non classical systems covering intuitionistic intermediate modal and substructural logics The book can also be used as an introduction to these logical systems from a procedural perspective Readership Computer scientists mathematicians and philosophers and anyone interested in the automation of reasoning based on non classical logics The book is suitable for self study its only prerequisite being some elementary knowledge of logic and proof theory

Goal-Directed Proof Theory Dov M. Gabbay, N. Olivetti, 2014-01-15 Proof Theory for Fuzzy Logics George Metcalfe, Nicola Olivetti, Dov M. Gabbay, 2008-11-27 Fuzzy logics are many valued logics that are well suited to reasoning in the context of vagueness They provide the basis for the wider field of Fuzzy Logic encompassing diverse areas such as fuzzy control fuzzy databases and fuzzy mathematics This book provides an accessible and up to date introduction to this fast growing and increasingly popular area It focuses in particular on the development and applications of proof theoretic presentations of fuzzy logics the result of more than ten years of intensive work by researchers in the area including the authors In addition to providing alternative elegant presentations of fuzzy logics proof theoretic methods are useful for addressing theoretical problems including key standard completeness results and developing efficient deduction and decision algorithms Proof theoretic presentations also place fuzzy logics in the broader landscape of non classical logics revealing deep relations with other logics studied in Computer Science Mathematics and Philosophy The book builds methodically from the semantic origins of fuzzy logics to proof theoretic presentations such as Hilbert and Gentzen systems introducing both theoretical and practical applications of these presentations **The Semantics and Proof Theory of the Logic of**

Bunched Implications David J. Pym, 2013-04-17 This is a monograph about logic Specifically it presents the mathematical theory of the logic of bunched implications BI I consider BI s proof theory model theory and computation theory However the monograph is also about informatics in a sense which I explain Specifically it is about mathematical models of resources and logics for reasoning about resources I begin with an introduction which presents my background view of logic from the point of view of informatics paying particular attention to three logical topics which have arisen from the development of logic within informatics Resources as a basis for semantics Proof search as a basis for reasoning and The theory of representation of object logics in a meta logic The ensuing development represents a logical theory which draws upon the mathematical philosophical and computational aspects of logic Part I presents the logical theory of propositional BI together with a computational interpretation Part II presents a corresponding development for predicate BI In both parts I develop proof

model and type theoretic analyses I also provide semantically motivated computational perspectives so beginning a mathematical theory of resources I have not included any analysis beyond conjecture of properties such as decidability finite models games or complexity I prefer to leave these matters to other occasions perhaps in broader contexts Advances in Artificial Intelligence Jacques Wainer,1995-09-27 Invited papers knowledge representation and automated reasoning tutoring systems machine learning neural networks distributed AI knowledge acquisition and knowledge bases posters **Model and Proof Theory of Constructive ALC** Stephan Scheele,2015-07-02 **Handbook of Philosophical Logic** Dov M. Gabbay,Franz Guenther,2013-03-14 It is with great pleasure that we are presenting to the community the second edition of this extraordinary handbook It has been over 15 years since the publication of the first edition and there have been great changes in the landscape of philosophical logic since then The first edition has proved invaluable to generations of students and researchers in formal philosophy and language as well as to consumers of logic in many applied areas The main logic article in the Encyclopaedia Britannica 1999 has described the first edition as the best starting point for exploring any of the topics in logic We are confident that the second edition will prove to be just as good The first edition was the second handbook published for the logic community It followed the North Holland one volume Handbook of Mathematical Logic published in 1977 edited by the late Jon Barwise The four volume Handbook of Philosophical Logic published 1983 1989 came at a fortunate temporal junction at the evolution of logic This was the time when logic was gaining ground in computer science and artificial intelligence circles These areas were under increasing commercial pressure to provide devices which help and or replace the human in his daily activity This pressure required the use of logic in the modelling of human activity and organization on the one hand and to provide the theoretical basis for the computer program constructs on the other *A Practical Logic of Cognitive Systems* Dov M. Gabbay,John Woods,2005-05-02 The present work is a continuation of the authors acclaimed multi volume *A Practical Logic of Cognitive Systems* After having investigated the notion of relevance in their previous volume Gabbay and Woods now turn to abduction In this highly original approach abduction is construed as ignorance preserving inference in which conjecture plays a pivotal role Abduction is a response to a cognitive target that cannot be hit on the basis of what the agent currently knows The abducer selects a hypothesis which were it true would enable the reasoner to attain his target He concludes from this fact that the hypothesis may be conjectured In allowing conjecture to stand in for the knowledge he fails to have the abducer reveals himself to be a satisficer since an abductive solution is not a solution from knowledge Key to the authors analysis is the requirement that a conjectured proposition is not just what a reasoner might allow himself to assume but a proposition he must defeasibly release as a premiss for further inferences in the domain of enquiry in which the original abduction problem has arisen The coverage of the book is extensive from the philosophy of science to computer science and AI from diagnostics to the law from historical explanation to linguistic interpretation One of the volume's strongest contributions is its exploration of the abductive character of criminal trials with

special attention given to the standard of proof beyond a reasonable doubt Underlying their analysis of abductive reasoning is the authors conception of practical agency In this approach practical agency is dominantly a matter of the comparative modesty of an agent s cognitive agendas together with comparatively scant resources available for their advancement Seen in these ways abduction has a significantly practical character precisely because it is a form of inference that satisfices rather than maximizes its response to the agent s cognitive target The Reach of Abduction will be necessary reading for researchers graduate students and senior undergraduates in logic computer science AI belief dynamics argumentation theory cognitive psychology and neuroscience linguistics forensic science legal reasoning and related areas Key features Reach of Abduction is fully integrated with a background logic of cognitive systems The most extensive coverage compared to competitive works Demonstrates not only that abduction is a form of ignorance preserving inference but that it is a mode of inference that is wholly rational Demonstrates the satisficing rather than maximizing character of abduction The development of formal models of abduction is considerably more extensive than one finds in existing literature It is an especially impressive amalgam of sophisticated conceptual analysis and extensive logical modelling Reach of Abduction is fully integrated with a background logic of cognitive systems The most extensive coverage compared to competitive works Demonstrates not only that abduction is a form of ignorance preserving inference but that it is a mode of inference that is wholly rational Demonstrates the satisficing rather than maximizing character of abduction The development of formal models of abduction is considerably more extensive than one finds in existing literature It is an especially impressive amalgam of sophisticated conceptual analysis and extensive logical modelling

Logic, Language, Information, and Computation Lev D. Beklemishev, Ruy de Queiroz, 2011-04-28 This book constitutes the refereed proceedings of the 18th Workshop on Logic Language Information and Communication WoLLIC 2011 held in Philadelphia PA USA in May 2011 The 21 revised full papers presented were carefully reviewed and selected from 35 submissions Among the topics covered are various aspects of mathematical logic computer science logics philosophical logics such as complexity theory model theory partial order Hoare logics hybrid logics Turing machines etc

Revision, Acceptability and Context Dov M. Gabbay, Odinaldo T. Rodrigues, Alessandra Russo, 2010-08-03 An important aspect in the formalisation of common sense reasoning is the construction of a model of what an agent believes the world to be like to help in her reasoning process This model is often incomplete or inaccurate but new information can be used to refine it The study of techniques that achieve this in a rational way is the task of the discipline of belief revision with which this book is concerned There are three key elements to the book s approach Firstly the methodology of logic by translation A specific instance of this is the idea of revision by translation Revision for a foreign logic is done via its translation into a well known logic usually classic logic Secondly the technique of meta level object level movement where we bring some operation defined at the meta level of a logic into its object level In this book we bring the operation of deletion to the object level Finally through Labelled Deductive

Systems we use the context of the revision to finetune its operation and illustrate the idea through the presentation of various algorithms The book is suitable for researchers and postgraduates in the areas of artificial intelligence database theory and logic *Automated Reasoning with Analytic Tableaux and Related Methods* Didier Galmiche, Dominique Larchey-Wendling, 2013-09-11 This book constitutes the refereed proceedings of the 22th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEUX 2013 held in Nancy France in September 2013 The 20 revised research papers presented together with 4 system descriptions were carefully reviewed and selected from 38 submissions The papers cover many topics as proof theory in classical and non classical logics analytic tableaux for various logics related techniques and concepts e g model checking and BDDs related methods model elimination sequent calculi resolution and connection method new calculi and methods for theorem proving and verification in classical and non classical logics systems tools implementations and applications as well as automated deduction and formal methods applied to logic mathematics software development protocol verification and security Logical Frameworks Gerard Huet, G. Plotkin, 1991 In Logical Frameworks first published in 1991 Huet and Plotkin gathered contributions from the first International Workshop on Logical Frameworks The contributions are of the highest calibre Four main themes are covered the general problem of representing formal systems in logical frameworks basic algorithms of general use in proof assistants logical issues and large scale experiments with proof assistants Abductive Reasoning and Learning Dov M. Gabbay, Philippe Smets, 2013-04-17 This book contains leading survey papers on the various aspects of Abduction both logical and numerical approaches Abduction is central to all areas of applied reasoning including artificial intelligence philosophy of science machine learning data mining and decision theory as well as logic itself Reactive Kripke Semantics Dov M. Gabbay, 2013-11-29 This text offers an extension to the traditional Kripke semantics for non classical logics by adding the notion of reactivity Reactive Kripke models change their accessibility relation as we progress in the evaluation process of formulas in the model This feature makes the reactive Kripke semantics strictly stronger and more applicable than the traditional one Here we investigate the properties and axiomatisations of this new and most effective semantics and we offer a wide landscape of applications of the idea of reactivity Applied topics include reactive automata reactive grammars reactive products reactive deontic logic and reactive preferential structures Reactive Kripke semantics is the next step in the evolution of possible world semantics for non classical logics and this book written by one of the leading authorities in the field is essential reading for graduate students and researchers in applied logic and it offers many research opportunities for PhD students **Analysis and Synthesis of Logics** Walter Carnielli, Marcelo Coniglio, Dov M. Gabbay, Paula Gouveia, Cristina Sernadas, 2008-01-22 Starting with simple examples showing the relevance of cutting and pasting logics the monograph develops a mathematical theory of combining and decomposing logics ranging from propositional and first order based logics to higher order based logics as well as to non truth functional logics The theory covers mechanisms for

combining semantic structures and deductive systems either of the same or different nature for instance two Hilbert calculi or a Hilbert calculus and a tableau calculus The important issue of preservation of properties is extensively addressed For instance sufficient conditions are provided for a combined logic to be sound and complete when the original component logics are known to be sound and complete The book brings the reader to the front line of current research in the field by showing both recent achievements and directions of future investigations in particular multiple open problems It also provides examples of potential applications in emergent fields like security protocols quantum computing networks and argumentation theory besides discussing more classical applications like software specification knowledge representation computational linguistics and modular automated reasoning This monograph will be of interest to researchers and graduate students in mathematical logic theory of computation and philosophical logic with no previous knowledge of the subject of combining and decomposing logics but with a working knowledge of first order logic The book will also be relevant for people involved in research projects where logic is used as a tool and the need for working with several logics at the same time is mandatory for instance temporal epistemic and probabilistic logics

Neural-Symbolic Cognitive Reasoning

Artur S. D'Avila Garcez, Luís C. Lamb, Dov M. Gabbay, 2009 This book explores why regarding practical reasoning humans are sometimes still faster than artificial intelligence systems It is the first to offer a self contained presentation of neural network models for many computer science logics

Logic, Language and Reasoning

Hans Jürgen Ohlbach, U. Reyle, 2012-12-06 This volume is dedicated to Dov Gabbay who celebrated his 50 birthday in October 1995 Dov is one of the most outstanding and most productive researchers we have ever met He has exerted a profound influence in major fields of logic linguistics and computer science His contributions in the areas of logic language and reasoning are so numerous that a comprehensive survey would already fill half of this book Instead of summarizing his work we decided to let him speak for himself Sitting in a car on the way to Amsterdam airport he gave an interview to Jelle Gerbrandy and Anne Marie Mineur This recorded conversation with him which is included gives a deep insight into his motivations and into his view of the world the Almighty and of course the role of logic In addition this volume contains a partially annotated bibliography of his main papers and books The length of the bibliography and the broadness of the topics covered there speaks for itself

Labelled

Non-Classical Logics Luca Viganò, 2013-04-17 I am very happy to have this opportunity to introduce Luca Viganò's book on Labelled Non Classical Logics I put forward the methodology of labelled deductive systems to the participants of Logic Colloquium 90 Labelled Deductive systems a Position Paper In J Oikkonen and J Vaananen editors Logic Colloquium 90 Volume 2 of Lecture Notes in Logic pages 66-68 Springer Berlin 1993 in an attempt to bring labelling as a recognised and significant component of our logic culture It was a response to earlier isolated uses of labels by various distinguished authors as a means to achieve local proof theoretic goals Labelling was used in many different areas such as resource labelling in relevance logics prefix tableaux in modal logics annotated logic programs in logic programming proof tracing in truth

maintenance systems and various side annotations in higher order proof theory arithmetic and analysis This widespread local use of labels was an indication of an underlying logical pattern namely the simultaneous side by side manipulation of several kinds of logical information It was clear that there was a need to establish the labelled deductive systems methodology Modal logic is one major area where labelling can be developed quickly and systematically with a view of demonstrating its power and significant advantage In modal logic the labels can play a double role

Linear Logic in Computer Science Thomas Ehrhard, 2004-11-15 This book illustrates linear logic in the application of proof theory to computer science *Foundations of Software Science and Computation Structures* Stefan Kiefer, Christine Tasson, 2021-03-22 This open access book constitutes the proceedings of the 24th International Conference on Foundations of Software Science and Computational Structures FOSSACS 2021 which was held during March 27 until April 1 2021 as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2021 The conference was planned to take place in Luxembourg and changed to an online format due to the COVID 19 pandemic The 28 regular papers presented in this volume were carefully reviewed and selected from 88 submissions They deal with research on theories and methods to support the analysis integration synthesis transformation and verification of programs and software systems

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