

Reductive Logic and Proof-search

Proof Theory,
Semantics, and Control

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EIKE RITTER



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Reductive Logic and Proof-search David J. Pym, 2004 **Reductive Logic and Proof-search** David J. Pym, Eike Ritter, 2004-04-29 This book is a specialized monograph on the development of the mathematical and computational metatheory of reductive logic and proof search areas of logic that are becoming important in computer science A systematic foundational text on these emerging topics it includes proof theoretic semantic model theoretic and algorithmic aspects The scope ranges from the conceptual background to reductive logic through its mathematical metatheory to its modern applications in the computational sciences Suitable for researchers and graduate students in mathematical computational and philosophical logic and in theoretical computer science and artificial intelligence this is the latest in the prestigious world renowned Oxford Logic Guides which contains Michael Dummett's Elements of intuitionism 2nd Edition Dov M Gabbay Mark A Reynolds and Marcelo Finger's Temporal Logic Mathematical Foundations and Computational Aspects J M Dunn and G Hardegree's Algebraic Methods in Philosophical Logic H Rott's Change Choice and Inference A Study of Belief Revision and Nonmonotonic Reasoning and P T Johnstone's Sketches of an Elephant A Topos Theory Compendium Volumes 1 and 2

Logic Programming Maria Garcia Banda, Enrico Pontelli, 2008-12-15 This book constitutes the refereed proceedings of the 24th International Conference on Logic Programming ICLP 2008 held in Udine Italy in December 2008 The 35 revised full papers together with 2 invited talks 2 invited tutorials 11 papers of the co located first Workshop on Answer Set Programming and Other Computing Paradigms ASPOCP 2008 as well as 26 poster presentations and the abstracts of 11 doctoral consortium articles were carefully reviewed and selected from 177 initial submissions The papers cover all issues of current research in logic programming they are organized in topical sections on applications algorithms systems and implementations semantics and foundations analysis and transformations CHRs and extensions implementations and systems answer set programming and extensions as well as constraints and optimizations *Interpolation and Definability* Dov M. Gabbay, Larisa Maksimova, 2005-05-12 This book is a specialized monograph on interpolation and definability a notion central in pure logic and with significant meaning and applicability in all areas where logic is applied especially computer science artificial intelligence logic programming philosophy of science and natural language Suitable for researchers and graduate students in mathematics computer science and philosophy this is the latest in the prestigious world renowned Oxford Logic Guides which contains Michael Dummett's Elements of intuitionism second edition J M Dunn and G Hardegree's Algebraic Methods in Philosophical Logic H Rott's Change Choice and Inference A Study of Belief Revision and Nonmonotonic Reasoning P T Johnstone's Sketches of an Elephant A Topos Theory Compendium Volumes 1 and 2 and David J Pym and Eike Ritter's Reductive Logic and Proof Search Proof theory semantics and control From Sets and Types to Topology and Analysis Laura Crosilla, Peter Schuster, 2005-10-06 Bridging the foundations and practice of constructive mathematics this text focusses on the contrast between the theoretical developments which have been most useful for computer science and

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provided a must for computer scientists logicians and linguists This Second Edition contains numerous revisions to the original text including expanding the exposition revising and elaborating the proofs providing additional diagrams correcting typographical errors and finally adding an entirely new section on monoidal categories Nearly a hundred new exercises have also been added many with solutions to make the book more useful as a course text and for self study

The Structure of Models of Peano Arithmetic Roman Kossak, James Schmerl, 2006-06-29 Aimed at graduate students and research logicians and mathematicians this much awaited text covers over forty years of work on relative classification theory for non standard models of arithmetic With graded exercises at the end of each chapter the book covers basic isomorphism invariants families of types realized in a model lattices of elementary substructures and automorphism groups Many results involve applications of the powerful technique of minimal types due to Haim Gaifman and some of the results are classical but have never been published in a book form before

Consequence Relations Alex Citkin, Alexei Muravitsky, 2022-06-30 The publication of Rasiowa and Sikorski's *The Mathematics of Metamathematics* 1970 Rasiowa's *An Algebraic Approach to Non Classical Logics* 1974 and Wójcicki's *Theory of Logical Calculi* 1988 created a niche in the field of mathematical and philosophical logic This in depth study of the concept of a consequence relation culminating in the concept of a Lindenbaum Tarski algebra fills this niche Citkin and Muravitsky consider the problem of obtaining confirmation that a statement is a consequence of a set of statements as prerequisites on the one hand and the problem of demonstrating that such confirmation does not exist in the structure under consideration on the other hand For the second part of this problem the concept of the Lindenbaum Tarski algebra plays a key role which becomes even more important when the considered consequence relation is placed in the context of decidability This role is traced in the book for various formal objective languages The work also includes helpful exercises to aid the reader's assimilation of the book's material Intended for advanced undergraduate and graduate students in mathematics and philosophy this book can be used to teach special courses in logic with an emphasis on algebraic methods for self study and also as a reference work

The Connectives Lloyd Humberstone, 2011 In *The Connectives* Lloyd Humberstone examines the semantics and pragmatics of natural language sentence connectives and or if not giving special attention to their formal behavior according to proposed logical systems and the degree to which such treatments capture their intuitive meanings It will be an essential resource for philosophers mathematicians computer scientists linguists or any scholar who finds connectives and the conceptual issues surrounding them to be a source of interest

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

Samson Abramsky on Logic and Structure in Computer Science and Beyond Alessandra Palmigiano, Mehrnoosh Sadrzadeh, 2023-08-01 Samson Abramsky's wide ranging contributions to logical and structural aspects of Computer Science have had a major influence on the field This book is a rich collection of papers inspired by and extending Abramsky's work It contains both survey material and new results organised around six major themes domains and duality game semantics contextuality and quantum computation comonads and descriptive complexity categorical and logical semantics and probabilistic computation These relate to different stages and aspects of Abramsky's work reflecting its exceptionally broad scope and his ability to illuminate and unify diverse topics Chapters in the volume include a review of his entire body of work spanning from philosophical aspects to logic programming language theory quantum theory economics and psychology and relating it to a theory of unification of sciences using dual adjunctions The section on game semantics shows how Abramsky's work has led to a powerful new paradigm for the semantics of computation The work on contextuality and categorical quantum mechanics has been highly influential and provides the foundation for increasingly widely used methods in quantum computing The work on comonads and descriptive complexity is building bridges between currently disjoint research areas in computer science relating Structure to Power The volume also includes a scientific autobiography and an overview of the contributions The outstanding set of contributors to this volume including both senior and early career academics serve as testament to Samson Abramsky's enduring influence It will provide an invaluable and unique resource for both students and established researchers *The Bulletin of Symbolic Logic*, 2006 **Book Review Index**

Cumulation Dana Ferguson, 2005-09 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year **Mathematical Reviews**, 2005 **American Book Publishing Record**, 2003

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In a global inundated with screens and the cacophony of instantaneous communication, the profound energy and mental resonance of verbal art often diminish in to obscurity, eclipsed by the regular onslaught of noise and distractions. However, nestled within the musical pages of **Reductive Logic And Proof Search Proof Theory Semantics And Control**, a interesting work of fictional beauty that impulses with fresh feelings, lies an unique trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, that enchanting opus instructions viewers on an emotional odyssey, lightly exposing the latent possible and profound impact stuck within the intricate internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is key themes, dissect their fascinating publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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