

# **From Logic To Computing**

Steven G. Krantz

# From Logic To Computing:

From Logic to Computing Robert P. McArthur, 1991 This book forges a bridge between logical principles in their application to reasoning in ordinary language on one hand and logical principles as fundamental to the development and **Logic for Computer Scientists** Uwe Schöning, 2008-01-11 This book introduces operation of computers on the other the notions and methods of formal logic from a computer science standpoint covering propositional logic predicate logic and foundations of logic programming The classic text is replete with illustrative examples and exercises It presents applications and themes of computer science research such as resolution automated deduction and logic programming in a rigorous but readable way The style and scope of the work rounded out by the inclusion of exercises make this an excellent textbook for an advanced undergraduate course in logic for computer scientists From Logic to Logic Programming Kees Doets, 1994 This mathematically oriented introduction to the theory of logic programming presents a systematic exposition of the resolution method for propositional first order and Horn clause logics together with an analysis of the semantic aspects of the method It is through the inference rule of resolution that both proofs and computations can be manipulated on computers and this book contains elegant versions and proofs of the fundamental theorems and lemmas in the proof theory of logic programming Advanced topics such as recursive complexity and negation as failure and its semantics are covered and streamlined setups for SLD and SLDNF resolution are described No other book treats this material in such detail and with such sophistication Doets provides a novel approach to resolution that is applied to the first order case and the case of positive logic programs In contrast to the usual approach the concept of a resolvent is defined nonconstructively without recourse to the concept of unification allowing the soundness and completeness proofs to be carried out in a more economic way Other new material includes computability results dealing with analytical hierarchy results on infinite derivations and an exposition on general logic programs using 3 valued logic Logic, Computation and Rigorous Methods Alexander Raschke, Elvinia Riccobene, Klaus-Dieter Schewe, 2021-06-04 This Festschrift was published in honor of Egon B rger on the occasion of his 75th birthday It acknowledges Prof B rger's inspiration as a scientist author mentor and community organizer Dedicated to a pioneer in the fields of logic and computer science Egon B rger's research interests are unusual in scope from programming languages to hardware architectures software architectures control systems workflow and interaction patterns business processes web applications and concurrent systems. The 18 invited contributions in this volume are by leading researchers in the areas of software engineering programming languages business information systems and computer science logic Computational Logic Dov M. Gabbay, Jörg H. Siekmann, John Woods, 2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten

thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning Calculemus The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the The Art of Modelling Computational Systems: A Journey from Logic and Concurrency to history of logic Security and Privacy Mário S. Alvim, Kostas Chatzikokolakis, Carlos Olarte, Frank Valencia, 2019-11-04 This Festschrift was published in honor of Catuscia Palamidessi on the occasion of her 60th birthday It features 6 laudations which are available in the front matter of the volume and 25 papers by close collaborators and friends. The papers are organized in topical sections named concurrency logic and constraint programming security and privacy and models and puzzles These contributions are a tribute to Catuscia Palamidessi s intellectual depth vision passion for science and tenacity in solving technical problems They also reflect the breadth and impact of her work Her scientific interests include in chronological order principles of programming languages concurrency theory security and privacy Logic from Computer Science Yiannis N. Moschovakis, 2012-12-06 The volume is the outgrowth of a workshop with the same title held at MSRI in the week of November 13 17 1989 and for those who did not get it Logic from Computer Science is the converse of Logic in Computer Science the full name of the highly successful annual LICS conferences We meant to have a conference which would bring together the LICS commu nity with some of the more traditional mathematical logicians and where the emphasis would be on the flow of ideas from computer science to logic rather than the other way around In a LICS talk sometimes the speaker presents a perfectly good theorem about say the A calculus or finite model theory in terms of its potential applications rather than its often more ob vious intrinsic foundational interest and intricate proof This is not meant to be a criticism the LICS meetings are after all organized by the IEEE Computer Society We thought for once it would be fun to see what we would get if we asked the speakers to emphasize the relevance of their work for logic rather than computer science and to point out what is involved in the proofs I think mostly it worked In any case the group of people represented as broad a selection of logicians as I have seen in recent years and the quality of the talks was in my view exceptionally unusually high I learned a From Logic to Logic Programming Kees Doets, 1994 lot and I think others did too Handbook of Logic and Proof Techniques for Computer Science Steven G. Krantz, 2012-12-06 Logic is and should be the core subject area of modern mathematics The blueprint for twentieth century mathematical thought thanks to Hilbert and Bourbaki is the axiomatic development of the subject As a result logic plays a central conceptual role At the same time mathematical logic has grown into one of the most recondite areas of mathematics Most of modern logic is inaccessible to all but the special ist Yet there is a need for many mathematical scientists not just those engaged in mathematical research to become conversant with the key ideas of logic The Handbook of Mathematical Logic edited by Jon Bar wise is in point of fact a handbook written by logicians for other mathe maticians It was at the time of its writing encyclopedic authoritative and up to the moment But it was and remains a comprehensive and authoritative book for the cognoscenti The encyclopedic Handbook of Logic in Computer Science by Abramsky Gabbay and Maibaum is a wonderful resource for the professional But it is overwhelming for the casual user There is need for a book that introduces important logic terminology and concepts to the working mathematical scientist who has only a passing acquaintance with logic Thus the present work has a different target audience The intent of this handbook is to present the elements of modern logic including many current topics to the reader having only basic mathe **Logical Foundations of Computer Science** S. I. Adipapn,1997-05-28 A Sobolev gradient of a real matical literacy valued functional is a gradient of that functional taken relative to the underlying Sobolev norm This book shows how descent methods using such gradients allow a unified treatment of a wide variety of problems in differential equations Equal emphasis is placed on numerical and theoretical matters Several concrete applications are made to illustrate the method These applications include 1 Ginzburg Landau functionals of superconductivity 2 problems of transonic flow in which type depends locally on nonlinearities and 3 minimal surface problems Sobolev gradient constructions rely on a study of orthogonal projections onto graphs of closed densely defined linear transformations from one Hilbert space to another These developments use work of Weyl von Neumann and Beurling Contemporary Logic and Computing Adrian Rezus, 2020-07-13 The present volume stems from a book proposal made about two years ago to College Publications London The main idea was that of illustrating the interplay between the contemporary work in logic and the mainstream mathematics The division of the volume in two sections topics in logic vs topics in computing is more or less conventional Some contributions are focussed on historical and technical details meant to put in perspective the impact of the work of some outstanding mathematicians and philosophers on the contemporary research in logic and computing science Some other papers also with a historical flavour were supposed to evidentiate punctual methods of research and specific concepts or

topics as e g decidability computability randomness and computational or descriptive complexity In general the papers were intended as specific surveys of results Other volumes to be issued subsequently in the same series will hopefully delineate aspects of the contemporary logic landscape that have not been illustrated here The intended audience of the book includes graduate students in mathematical logic foundations of matematics and computing science as well as philosophers mathematicians and possibly other scientists interested in the recent research on logic and computing Harry J. Gensler, 2010-02-12 The A to Z of Logic introduces the central concepts of the field in a series of brief non technical cross referenced dictionary entries The 352 alphabetically arranged entries give a clear basic introduction to a very broad range of logical topics Entries can be found on deductive systems such as propositional logic modal logic deontic logic temporal logic set theory many valued logic mereology and paraconsistent logic Similarly there are entries on topics relating to those previously mentioned such as negation conditionals truth tables and proofs Historical periods and figures are also covered including ancient logic medieval logic Buddhist logic Aristotle Ockham Boole Frege Russell G del and Quine There are even entries relating logic to other areas and topics like biology computers ethics gender God psychology metaphysics abstract entities algorithms the ad hominem fallacy inductive logic informal logic the liar paradox metalogic philosophy of logic and software for learning logic In addition to the dictionary there is a substantial chronology listing the main events in the history of logic an introduction that sketches the central ideas of logic and how it has evolved into what it is today and an extensive bibliography of related readings This book is not only useful for specialists but also understandable to students and Samson Abramsky on Logic and Structure in Computer Science and Beyond Alessandra other beginners in the field 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 Handbook On Computational Intelligence (In 2 Volumes) Plamen Parvanov Angelov, 2016-03-18 With the Internet the proliferation of Big Data and autonomous systems mankind has entered into an era of digital obesity In this century computational intelligence such as thinking machines have been brought forth to process complex human problems in a wide scope of areas from social sciences economics and biology medicine and social networks to cyber security The Handbook of Computational Intelligence in two volumes prompts readers to look at these problems from a non traditional angle It takes a step by step approach supported by case studies to explore the issues that have arisen in the process The Handbook covers many classic paradigms as well as recent achievements and future promising developments to solve some of these very complex problems Volume one explores the subjects of fuzzy logic and systems artificial neural networks and learning systems Volume two delves into evolutionary computation hybrid systems as well as the applications of computational intelligence in decision making the process industry robotics and autonomous systems This work is a one stop shop for beginners as well as an inspirational source for more advanced researchers It is a useful resource for lecturers and learners alike The to Z of Logic Harry J. Gensler, 2010-02-12 The A to Z of Logic introduces the central concepts of the field in a series of brief non technical cross referenced dictionary entries The 352 alphabetically arranged entries give a clear basic introduction to a very broad range of logical topics Entries can be found on deductive systems such as propositional logic modal logic deontic logic temporal logic set theory many valued logic mereology and paraconsistent logic Similarly there are entries on topics relating to those previously mentioned such as negation conditionals truth tables and proofs Historical periods and figures are also covered including ancient logic medieval logic Buddhist logic Aristotle Ockham Boole Frege Russell G del and Quine There are even entries relating logic to other areas and topics like biology computers ethics gender God psychology metaphysics abstract entities algorithms the ad hominem fallacy inductive logic informal logic the liar paradox metalogic philosophy of logic and software for learning logic In addition to the dictionary there is a substantial chronology listing the main events in the history of logic an introduction that sketches the central ideas of logic and how it has evolved into what it is today and an extensive bibliography of related readings This book is not only useful for specialists but also understandable to students and other beginners in the field

<u>Logical Aspects of Computational Linguistics</u> Alain Lecomte, Francois Lamarche, Guy Perrier, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Logical Aspects of Computational Linguistics LACL 97 held in Nancy France in September 1997 The 10 revised full papers presented were carefully selected during two rounds of reviewing Also included are two comprehensive invited papers Among the topics covered are type theory various types of grammars linear logic parsing type directed natural language processing proof theoretic aspects concatenation logics and mathematical languages

<u>EVOLUTION OF COMPUTING</u> Abhinandan H.

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Huth,Mark Ryan,2004-08-26 Recent years have seen the development of powerful tools for verifying hardware and software systems as companies worldwide realise the need for improved means of validating their products There is increasing demand for training in basic methods in formal reasoning so that students can gain proficiency in logic based verification methods The second edition of this successful textbook addresses both those requirements by continuing to provide a clear introduction to formal reasoning which is both relevant to the needs of modern computer science and rigorous enough for practical application Improvements to the first edition have been made throughout with extra and expanded sections on SAT solvers existential universal second order logic micro models programming by contract and total correctness The coverage of model checking has been substantially updated Further exercises have been added Internet support for the book includes worked solutions for all exercises for teachers and model solutions to some exercises for students

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