

Logic and Language Models for Computer Science

$$\begin{aligned} & [p] \\ & p \vee q \\ & p \wedge (p \vee q) \\ & p \rightarrow p \wedge (p \vee q) \\ & [p \wedge (p \vee q)] \\ & p \\ & p \wedge (p \vee q) \rightarrow p \\ & p \leftrightarrow p \wedge (p \vee q) \end{aligned}$$

Dana Richards
Henry Hamburger

**Fourth
Edition**

Logic And Language Models For Computer Science

Dana Richards, Henry Hamburger



Logic And Language Models For Computer Science:

Logic And Language Models For Computer Science (Third Edition) Dana Richards, Henry Hamburger, 2017-09-08

This text presents the formal concepts underlying Computer Science. It starts with a wide introduction to Logic with an emphasis on reasoning and proof with chapters on Program Verification and Prolog. The treatment of computability with Automata and Formal Languages stands out in several ways. The style is appropriate for both undergraduate and graduate classes.

Logic and Language Models for Computer Science Dana Richards, Henry Hamburger, 2015 Logic And Language Models For Computer Science (Fourth Edition) Dana Richards, Henry Hamburger, 2023-01-19 This unique compendium highlights the theory of computation particularly logic and automata theory. Special emphasis is on computer science applications including loop invariants, program correctness, logic programming and algorithmic proof techniques. This innovative volume differs from standard textbooks by building on concepts in a different order using fewer theorems with simpler proofs. It has added many new examples, problems and answers. It can be used as an undergraduate text at most universities.

Solutions Manual to Accompany Logic and Language Models for Computer Science Henry Hamburger, Dana Scott Richards, 2002 *Logic & Language Models for Computer Science* Dana Richards, Henry Hamburger, 2015 Logic, Language, and Computation Nick Bezhanishvili, Sebastian Löbner, Kerstin Schwabe, Luca Spada, 2011-07-18 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 8th International Tbilisi Symposium on Logic Language and Computation TbiLLC 2009 held in Bakuriani Georgia in September 2009. The 20 revised full papers included in the book were carefully reviewed and selected from numerous presentations given at the symposium. The focus of the papers is on the following topics: natural language syntax semantics and pragmatics, constructive modal and algebraic logic, linguistic typology and semantic universals, logics for artificial intelligence, information retrieval, query answer systems, logic games and formal pragmatics, language evolution and learnability, computational social choice, historical linguistics, history of logic. **Logical**

Foundations of Computer Science Sergei Artemov, Anil Nerode, 2017-12-22 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science LFCS 2018 held in Deerfield Beach FL USA in January 2018. The 22 revised full papers were carefully reviewed and selected from 22 submissions. The scope of the Symposium is broad and includes constructive mathematics and type theory, homotopy type theory, logic, automata and automatic structures, computability and randomness, logical foundations of programming, logical aspects of computational complexity, parameterized complexity, logic programming and constraints, automated deduction and interactive theorem proving, logical methods in protocol and program verification, logical methods in program specification and extraction, domain theory, logics, logical foundations of database theory, equational logic and term rewriting, lambda and combinatory calculi, categorical logic and topological semantics, linear logic, epistemic and temporal logics, intelligent and multiple agent system.

logics logics of proof and justification non monotonic reasoning logic in game theory and social software logic of hybrid systems distributed system logics mathematical fuzzy logic system design logics and other logics in computer science

Computer Science Logic Jerzy Marcinkowski, European Association for Computer Science Logic. Conference, 2004-09-02 This book constitutes the refereed proceedings of the 18th International Workshop on Computer Science Logic CSL 2004 held as the 13th Annual Conference of the EACSL in Karpacz Poland in September 2004 The 33 revised full papers presented together with 5 invited contributions were carefully reviewed and selected from 88 papers submitted All current aspects of logic in computer science are addressed ranging from mathematical logic and logical foundations to methodological issues and applications of logics in various computing contexts *Computer Science -- Theory and Applications* Farid M. Ablae, Ernst W. Mayr, 2010-06-14 Annotation This book constitutes the proceedings of the 5th International Computer Science Symposium in Russia CSR 2010 held in Kazan Russia in June 2010 The 30 papers presented were carefully reviewed and selected from 62 submissions The scope of topics of the symposium was quite broad and covered basically all areas of the foundations of theoretical computer science *Computer Science Logic* Mogens Nielsen, 1998-05-20 This book constitutes the strictly refereed post workshop proceedings of the 11th International Workshop on Computer Science Logic CSL 97 held as the 1997 Annual Conference of the European Association on Computer Science Logic EACSL in Aarhus Denmark in August 1997 The volume presents 26 revised full papers selected after two rounds of refereeing from initially 92 submissions also included are four invited papers The book addresses all current aspects of computer science logics and its applications and thus presents the state of the art in the area **Logic, Language, Information, and Computation** Rosalie Iemhoff, Michael Moortgat, Ruy de Queiroz, 2019-06-23 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 26th Workshop on Logic Language Information and Communication WoLLIC 2019 held in Utrecht The Netherlands in July 2019 The 41 full papers together with 6 invited lectures presented were fully reviewed and selected from 60 submissions The idea is to have a forum which is large enough in the number of possible interactions between logic and the sciences related to information and computation and yet is small enough to allow for concrete and useful interaction among participants **Handbook of Logic and Language** Johan F.A.K. van Benthem, Alice ter Meulen, 2010-12-17 The logical study of language is becoming more interdisciplinary playing a role in fields such as computer science artificial intelligence cognitive science and game theory This new edition written by the leading experts in the field presents an overview of the latest developments at the interface of logic and linguistics as well as a historical perspective It is divided into three parts covering Frameworks General Topics and Descriptive Themes Completely revised and updated includes over 25% new material Discusses the interface between logic and language Many of the authors are creators or active developers of the theories *Quantifiers and Cognition: Logical and Computational Perspectives* Jakub Szymanik, 2016-02-19 This volume on the semantic complexity of natural language

explores the question why some sentences are more difficult than others While doing so it lays the groundwork for extending semantic theory with computational and cognitive aspects by combining linguistics and logic with computations and cognition Quantifier expressions occur whenever we describe the world and communicate about it Generalized quantifier theory is therefore one of the basic tools of linguistics today studying the possible meanings and the inferential power of quantifier expressions by logical means The classic version was developed in the 1980s at the interface of linguistics mathematics and philosophy Before this volume advances in classic generalized quantifier theory mainly focused on logical questions and their applications to linguistics this volume adds a computational component the third pillar of language use and logical activity This book is essential reading for researchers in linguistics philosophy cognitive science logic AI and computer science

Relational Methods for Computer Science Applications Ewa Orłowska, Andrzej Szalas, 2013-11-11

This volume addresses all current aspects of relational methods and their applications in computer science It presents a broad variety of fields and issues in which theories of relations provide conceptual or technical tools The contributions address such subjects as relational methods in programming relational constraints relational methods in linguistics and spatial reasoning relational modelling of uncertainty All contributions provide the readers with new and original developments in the respective fields The reader thus gets an interdisciplinary spectrum of the state of the art of relational methods and implementation oriented solutions of problems related to these areas

Finite Model Theory and Its Applications Erich Grädel, Phokion G. Kolaitis, Leonid Libkin, Maarten Marx, Joel Spencer, Moshe Y. Vardi, Yde Venema, Scott Weinstein, 2007-04-24 Finite model theory as understood here is an area of mathematical logic that has developed in close connection with applications to computer science in particular the theory of computational complexity and database theory One of the fundamental insights of mathematical logic is that our understanding of mathematical phenomena is enriched by elevating the languages we use to describe mathematical structures to objects of explicit study If mathematics is the science of patterns then the media through which we discern patterns as well as the structures in which we discern them command our attention It is this aspect of logic which is most prominent in model theory the branch of mathematical logic which deals with the relation between a formal language and its interpretations No wonder then that mathematical logic and finite model theory in particular should find manifold applications in computer science from specifying programs to querying databases computer science is rife with phenomena whose understanding requires close attention to the interaction between language and structure This volume gives a broad overview of some central themes of finite model theory expressive power descriptive complexity and zero one laws together with selected applications to database theory and artificial intelligence especially constraint databases and constraint satisfaction problems The final chapter provides a concise modern introduction to modal logic which emphasizes the continuity in spirit and technique with finite model theory

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

Temporal Logics in Computer Science Stéphane Demri, Valentin Goranko, Martin Lange, 2016-10-13 This comprehensive text provides a modern and technically precise exposition of the fundamental theory and applications of temporal logics in computer science Part I presents the basics of discrete transition systems including constructions and behavioural equivalences Part II examines the most important temporal logics for transition systems and Part III looks at their expressiveness and complexity Finally Part IV describes the main computational methods and decision procedures for model checking and model building based on tableaux automata and games and discusses their relationships The book contains a wealth of examples and exercises as well as an extensive annotated bibliography Thus the book is not only a solid professional reference for researchers in the field but also a comprehensive graduate textbook that can be used for self study as well as for teaching courses

Computer Science - Theory and Applications Edward A. Hirsch, Alexander A. Razborov, Alexei Semenov, Anatol Slissenko, 2008-05-14 This book constitutes the refereed proceedings of the Third International Computer Science Symposium in Russia CSR 2008 held in Moscow Russia June 7 12 2008 The 33 revised papers presented together with 5 invited papers and one opening lecture were carefully reviewed and selected from 103 submissions All major areas in computer science are addressed The theory track deals with algorithms protocols and data structures complexity and cryptography formal languages automata and their applications to computer science computational models and concepts proof theory and applications of logic to computer science The application part comprises programming and languages computer architecture and hardware design symbolic computing and numerical applications application software artificial intelligence and robotics

Relational Methods in Computer Science Chris Brink, Wolfram Kahl, Günther Schmidt, 2012-12-06 The calculus of relations has been an important component of the development of logic and algebra since the middle of the nineteenth century when Augustus De Morgan observed that since a horse is an animal we should be able to infer that the head of a horse is the head of an animal For this Aristotelian syllogistic does not suffice We require relational reasoning George Boole in his *Mathematical Analysis of Logic* of 1847 initiated the treatment of logic as part of mathematics specifically as part of algebra Quite the opposite conviction was put forward early this century by Bertrand Russell and Alfred North Whitehead in their *Principia Mathematica* 1910 1913 that mathematics

was essentially grounded in logic. Logic thus developed in two streams. On the one hand algebraic logic in which the calculus of relations played a particularly prominent part was taken up from Boole by Charles Sanders Peirce who wished to do for the calculus of relatives what Boole had done for the calculus of sets. Peirce's work was in turn taken up by Schroder in his *Algebra und Logik der Relative* of 1895, the third part of a massive work on the algebra of logic. Schroder's work however lay dormant for more than 40 years until revived by Alfred Tarski in his seminal paper *On the calculus of binary relations* of 1941, actually his presidential address to the Association for Symbolic Logic.

Ewa Orłowska on Relational Methods in Logic and Computer Science Joanna Golińska-Pilarek, Michał Zawidzki, 2018-12-08. This book is a tribute to Professor Ewa Orłowska, a Polish logician who was celebrating the 60th year of her scientific career in 2017. It offers a collection of contributed papers by different authors and covers the most important areas of her research. Prof. Orłowska made significant contributions to many fields of logic such as proof theory, algebraic methods in logic and knowledge representation, and her work has been published in 3 monographs and over 100 articles in internationally acclaimed journals and conference proceedings. The book also includes Prof. Orłowska's autobiography, bibliography, and a dialogue between her and the editors of the volume, as well as contributors' biographical notes. It is suitable for scholars and students of logic who are interested in understanding more about Prof. Orłowska's work.

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