Computability Theory, Semantics, and Logic Programming

Melvin Fitting

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Computability Theory Semantics And Logic Programming:

   Computability Theory, Semantics, and Logic Programming Melvin Fitting,1987 This book describes computability theory and provides an extensive treatment of data structures and program correctness The author covers topics of current interest such as the logic programming language PROLOG and its relation to the LISP type of language   Computability Theory Semantics and Logic Programming: A string manipulation language – 2. The family of EFS languages – 3. Operators – 4. Implementing data structures – 5. The Church-Turing Thesis – 6. Programs as data Melvin Fitting,1987

   Computability, Complexity, and Languages Martin Davis,Ron Sigal,Elaine J. Weyuker,1994-02-03 This introductory text covers the key areas of computer science including recursive function theory formal languages and automata Additions to the second edition include extended exercise sets which vary in difficulty expanded section on recursion theory new chapters on program verification and logic programming updated references and examples throughout   **Handbook of Computability Theory** E.R. Griffor,1999-10-01 The chapters of this volume all have their own level of presentation The topics have been chosen based on the active research interest associated with them Since the interest in some topics is older than that in others some presentations contain fundamental definitions and basic results while others relate very little of the elementary theory behind them and aim directly toward an exposition of advanced results Presentations of the latter sort are in some cases restricted to a short survey of recent results due to the complexity of the methods and proofs themselves Hence the variation in level of presentation from chapter to chapter only reflects the conceptual situation itself One example of this is the collective efforts to develop an acceptable theory of computation on the real numbers The last two decades has seen at least two new definitions of effective operations on the real numbers   Handbook of Philosophical Logic Dov M. Gabbay,Franz Guenthner,2001-06-30 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 commu nity 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 organisa tion on the one hand and to provide the theoretical basis for the computer program constructs on the other

Semantics of Programming Languages and Model Theory Manfred Droste,Yuri Gurevich,1993-09-10 Fourteen papers presented at the conference on title held at the International Conference and Research Center for Computer Science Schloss Dagstuhl June 1991 as well as a few others submitted by colleagues unable to attend reflect the interplay between algebra logic and semantics of programming languages Among the topics are a formal specification of PARLOG synthesis of nondeterministic asynchronous automata observable modules and power domain constructions the Smyth completion of a quasi uniform space current trends in the semantics of data flow and a theory of unary pairfunctions Annotation copyright by Book News Inc Portland OR   Computable Models raymond turner,2009-04-21 Computational models can be found everywhere in present day science and engineering In providing a logical framework and foundation for the specification and design of specification languages Raymond Turner uses this framework to introduce and study computable models In doing so he presents the first systematic attempt to provide computational models with a logical foundation Computable models have wide ranging applications from programming language semantics and specification languages through to knowledge representation languages and formalism for natural language semantics They are also implicit in computer modelling in many areas of physical and social science This detailed investigation into the logical foundations of specification and specification languages and their application to the definition of programming languages coupled with a clear exposition of theories of data and computable models as mathematical notions will be welcomed by researchers and graduate students

Fundamentals of Computation Theory Olaf Owe,Martin Steffen,Jan Arne Telle,2011-08-09 This book constitutes the refereed proceedings of the 18th International Symposium Fundamentals of Computation Theory FCT 2011 held in Oslo Norway in August 2011 The 28 revised full papers presented were carefully reviewed and selected from 78 submissions FCT 2011 focused on algorithms formal methods and emerging fields such as ad hoc dynamic and evolving systems algorithmic game theory computational biology foundations of cloud computing and ubiquitous systems and quantum computation

Fundamentals of Computation Theory Lothar Budach,1991-08-28 This volume contains papers which were contributed for presentation at the international conference Fundamentals of Computation Theory FCT 91 heldat Gosen near Berlin September 9 13 1991 This was the eighth in the series of FCT conferences organized every odd year The programme of theconference including invited lectures and selected contributions falls into the following categories Semantics and logical concepts in the theory of computing formal specification Automata and formal languages Computational geometry Algorithmic aspects of algebra and algebraic geometry cryptography Complexity sequential parallel distributed computing structure lower bounds complexity of analytical problems general concepts Algorithms efficient probabilistic parallel sequential distributed Counting and combinatorics in connection with mathematical computer science The proceedings of previous FCT meetings are available as Lecture Notes in Computer Science Vols 380 278 199 158 117 56   *Three Views of Logic* Donald W. Loveland,Richard Hodel,S. G. Sterrett,2014-01-26 The first interdisciplinary textbook to introduce students

to three critical areas in applied logic Demonstrating the different roles that logic plays in the disciplines of computer science mathematics and philosophy this concise undergraduate textbook covers select topics from three different areas of logic proof theory computability theory and nonclassical logic The book balances accessibility breadth and rigor and is designed so that its materials will fit into a single semester Its distinctive presentation of traditional logic material will enhance readers capabilities and mathematical maturity The proof theory portion presents classical propositional logic and first order logic using a computer oriented resolution formal system Linear resolution and its connection to the programming language Prolog are also treated The computability component offers a machine model and mathematical model for computation proves the equivalence of the two approaches and includes famous decision problems unsolvable by an algorithm The section on nonclassical logic discusses the shortcomings of classical logic in its treatment of implication and an alternate approach that improves upon it Anderson and Belnap s relevance logic Applications are included in each section The material on a four valued semantics for relevance logic is presented in textbook form for the first time Aimed at upper level undergraduates of moderate analytical background Three Views of Logic will be useful in a variety of classroom settings Gives an exceptionally broad view of logic Treats traditional logic in a modern format Presents relevance logic with applications Provides an ideal text for a variety of one semester upper level undergraduate courses   Annales Societatis Mathematicae Polonae Polskie Towarzystwo Matematyczne,1990   *Fundamentals of Computation Theory* Henning Fernau,Klaus Jansen,2023-09-21 This book constitutes the proceedings of the 24th International Symposium on Fundamentals of Computation Theory FCT 2023 held in Trier Germany in September 2023 The __ full papers included in this volume were carefully reviewed and selected from __ submissions In addition the book contains ___ invited talks The papers cover topics of all aspects of theoretical computer science in particular algorithms complexity formal and logical methods   Mathematical Foundations of Computer Science 1991 Andrzej Tarlecki,1991 This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science MFCS 91 held in Kazimierz Dolny Poland September 9 13 1991 The series of MFCS symposia organized alternately in Poland and Czechoslovakia since 1972 has a long and well established tradition The purpose of the series is to encourage high quality research in all branches of theoretical computer science and to bring together specialists working actively in the area Principal areas of interest in this symposium include software specification and development parallel and distributed computing logic and semantics of programs algorithms automata and formal languages complexity and computability theory and others The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers   **Theory of Computation** George Tourlakis,2012-04-17 Learn the skills and acquire the intuition to assess the theoretical limitations of computer programming Offering an accessible approach to the topic Theory of Computation focuses on the metatheory of computing and the theoretical boundaries between what various computational models can do and not do from the most general model the URM

Unbounded Register Machines to the finite automaton A wealth of programming like examples and easy to follow explanations build the general theory gradually which guides readers through the modeling and mathematical analysis of computational phenomena and provides insights on what makes things tick and also what restrains the ability of computational processes Recognizing the importance of acquired practical experience the book begins with the metatheory of general purpose computer programs using URMs as a straightforward technology independent model of modern high level programming languages while also exploring the restrictions of the URM language Once readers gain an understanding of computability theory including the primitive recursive functions the author presents automata and languages covering the regular and context free languages as well as the machines that recognize these languages Several advanced topics such as reducibilities the recursion theorem complexity theory and Cook s theorem are also discussed Features of the book include A review of basic discrete mathematics covering logic and induction while omitting specialized combinatorial topics A thorough development of the modeling and mathematical analysis of computational phenomena providing a solid foundation of un computability The connection between un computability and un provability G del s first incompleteness theorem The book provides numerous examples of specific URMs as well as other programming languages including Loop Programs FA Deterministic Finite Automata NFA Nondeterministic Finite Automata and PDA Pushdown Automata Exercises at the end of each chapter allow readers to test their comprehension of the presented material and an extensive bibliography suggests resources for further study Assuming only a basic understanding of general computer programming and discrete mathematics Theory of Computation serves as a valuable book for courses on theory of computation at the upper undergraduate level The book also serves as an excellent resource for programmers and computing professionals wishing to understand the theoretical limitations of their craft   Fundamentals of Computation Theory ,2003   *Logic Programming* ,1988 1988 papers presented at the joint meeting of the Fifth International Conference on Logic Programming and the Fifth Symposium on Logic Programming   **Logic Programming** Robert Kowalski,Kenneth A. Bowen,1988 These two volumes collect papers presented at the first joint meeting of the two principal logic programming conferences held in August of 1988 The more than fifty contributions cover all aspects of the field including applications particularly those that exploit the unique character of logic programming the role of logic programming in artificial intelligence deductive databases relations to other computational paradigms language issues methodology implementations on sequential and parallel architectures and theory Logic Programming is included in the Logic Programming series Research Reports and Notes edited by Ehud Shapiro   Foundations of Artificial Intelligence and Robotics Wendell H. Chun,2024-12-24 Artificial intelligence AI is a complicated science that combines philosophy cognitive psychology neuroscience mathematics and logic logicism economics computer science computability and software Meanwhile robotics is an engineering field that compliments AI There can be situations where AI can function without a robot e g Turing Test and robotics without AI e g teleoperation but in many cases

each technology requires each other to exhibit a complete system having smart robots and AI being able to control its interactions i e effectors with its environment This book provides a complete history of computing AI and robotics from its early development to state of the art technology providing a roadmap of these complicated and constantly evolving subjects Divided into two volumes covering the progress of symbolic logic and the explosion in learning deep learning in natural language and perception this second volume goes more in depth into the history of artificial intelligence starting with key people and important events that bring us to the present day Key Features Builds on the insights provided in volume 1 to look into the future of AI and robotics Provides a holistic view of AI and touches on all the misconceptions and tangents to the technologies through taking a systematic approach Provides a glossary of terms list of notable people and extensive references Provides the interconnections and history of the progress of technology for over 100 years as both the hardware Moore s Law GPUs and software i e generative AI has advanced Intended as a complete reference this book is useful to undergraduate and postgraduate students of computing as well as the general reader It can also be used as a textbook by course convenors If you only had one book on AI and robotics this set would be the first reference to acquire and learn about the theory and practice   **Proceedings, Twelfth Annual IEEE Conference on Computational Complexity** ,1997
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