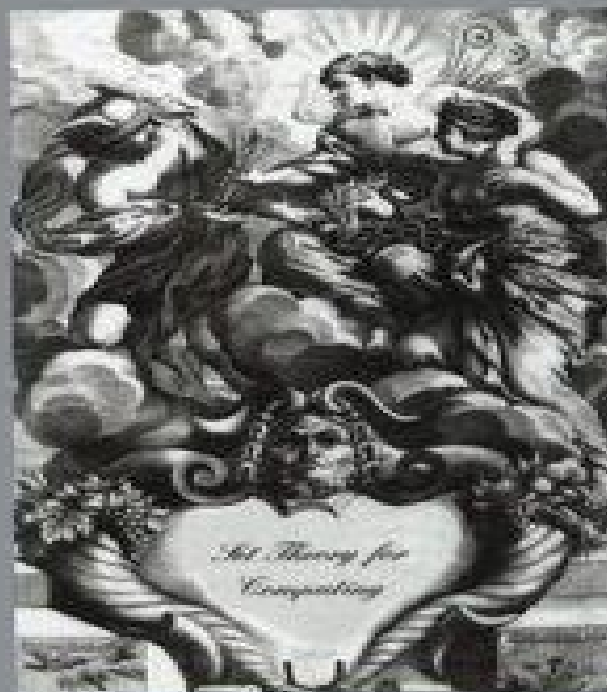


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SET THEORY FOR COMPUTING

From Decision Procedures
to Declarative Programming
with Sets

Domenico Cantone
Eugenio Omodeo
Alberto Policriti



Springer

Set Theory For Computing From Decision Procedures To Logic Programming With Sets

Agostino Dovier, Enrico Pontelli



Set Theory For Computing From Decision Procedures To Logic Programming With Sets:

Set Theory for Computing Domenico Cantone, Eugenio Omodeo, Alberto Policriti, 2013-06-29 Set Theory for Computing offers an up to date and comprehensive account of set oriented symbolic manipulation and automated reasoning methods Mastering today's variety of systems with crisp formal tools is a prerequisite for a high degree of control over sets and aggregates The many algorithmic methods and deductive techniques in this book offer readers a clear view of the use of set theoretic notions in such critical areas as specification of problems data types and solution methods algorithmic program verification and automated deduction The rigorous and largely self contained style of presentation addresses readers wanting to complement their set intuition with the ability to exploit it in specification and verification and master it by symbolic logically based techniques and methods This book will be of interest to graduates and researchers in theoretical computer science and computational logic and automated reasoning

On Sets and Graphs Eugenio G. Omodeo, Alberto Policriti, Alexandru I. Tomescu, 2017-05-11 This treatise presents an integrated perspective on the interplay of set theory and graph theory providing an extensive selection of examples that highlight how methods from one theory can be used to better solve problems originated in the other Features explores the interrelationships between sets and graphs and their applications to finite combinatorics introduces the fundamental graph theoretical notions from the standpoint of both set theory and dyadic logic and presents a discussion on set universes explains how sets can conveniently model graphs discussing set graphs and set theoretic representations of claw free graphs investigates when it is convenient to represent sets by graphs covering counting and encoding problems the random generation of sets and the analysis of infinite sets presents excerpts of formal proofs concerning graphs whose correctness was verified by means of an automated proof assistant contains numerous exercises examples definitions problems and insight panels

A 25-Year Perspective on Logic Programming Agostino Dovier, Enrico Pontelli, 2010-06-26 This book celebrates the 25th anniversary of GULP the Italian Association for Logic Programming Authored by Italian researchers at the leading edge of their fields it presents an up to date survey of a broad collection of topics in logic programming making it a useful reference for both researchers and students During its 25 year existence GULP has organised a wide range of national and international activities including both conferences and summer schools It has been especially active in supporting and encouraging young researchers by providing scholarships for GULP events and awarding distinguished dissertations

We in the international logic programming community look upon GULP with a combination of envy admiration and gratitude We are pleased to attend its conferences and summer schools where we can learn about scientific advances catch up with old friends and meet young students It is an honour for me to acknowledge our appreciation to GULP for its outstanding contributions to our field and to express our best wishes for its continuing prosperity in the future March 2010 Robert Kowalski Imperial College London Preface On June 18 1985 a group of pioneering researchers including representatives from industry national

research labs and academia attended the constituent assembly of the Group of researchers and Users of Logic Programming GULP association That was the starting point of a long adventure in science that 1 we are still experiencing 25 years later This volume celebrates this important event *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 and is suitable for scholars and students of logic who are interested in understanding more about Prof Orłowska's work

Automated Reasoning Nicola Olivetti, Ashish Tiwari, 2016-06-13 This book constitutes the refereed proceedings of the 8th International Joint Conference on Automated Reasoning IJCAR 2016 held in Coimbra Portugal in June July 2016 IJCAR 2014 was a merger of three leading events in automated reasoning namely CADE International Conference on Automated Deduction FroCoS International Symposium on Frontiers of Combining Systems and TABLEAUX International Conference on Automated Reasoning with Analytic Tableaux and Related Methods The 26 revised full research papers and 9 system descriptions presented together with 4 invited talks were carefully reviewed and selected from 79 submissions The papers have been organized in topical sections on satisfiability of Boolean formulas satisfiability modulo theory rewriting arithmetic reasoning and mechanizing mathematics first order logic and proof theory first order theorem proving higher order theorem proving modal and temporal logics non classical logics and verification

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

Martin Davis on Computability, Computational

Logic, and Mathematical Foundations Eugenio G. Omodeo,Alberto Policriti,2017-01-27 This book presents a set of historical recollections on the work of Martin Davis and his role in advancing our understanding of the connections between logic computing and unsolvability The individual contributions touch on most of the core aspects of Davis work and set it in a contemporary context They analyse discuss and develop many of the ideas and concepts that Davis put forward including such issues as contemporary satisfiability solvers essential unification quantum computing and generalisations of Hilbert s tenth problem The book starts out with a scientific autobiography by Davis and ends with his responses to comments included in the contributions In addition it includes two previously unpublished original historical papers in which Davis and Putnam investigate the decidable and the undecidable side of Logic as well as a full bibliography of Davis work As a whole this book shows how Davis scientific work lies at the intersection of computability theoretical computer science foundations of mathematics and philosophy and draws its unifying vision from his deep involvement in Logic *The Life and Work of*

Leon Henkin María Manzano,Ildikó Sain,Enrique Alonso,2014-10-23 This is a comprehensive book on the life and works of Leon Henkin 1921 2006 an extraordinary scientist and excellent teacher whose writings became influential right from the beginning of his career with his doctoral thesis on The completeness of formal systems under the direction of Alonzo Church Upon the invitation of Alfred Tarski Henkin joined the Group in Logic and the Methodology of Science in the Department of Mathematics at the University of California Berkeley in 1953 He stayed with the group until his retirement in 1991 This edited volume includes both foundational material and a logic perspective Algebraic logic model theory type theory completeness theorems philosophical and foundational studies are among the topics covered as well as mathematical education The work discusses Henkin s intellectual development his relation to his predecessors and contemporaries and his impact on the recent development of mathematical logic It offers a valuable reference work for researchers and students in the fields of philosophy mathematics and computer science **An Introduction to the Technique of Formative**

Processes in Set Theory Domenico Cantone,Pietro Ursino,2018-02-15 This book presents an intuitive picture oriented approach to the formative processes technique and to its applications In the first part the authors introduce basic set theoretic terminology and properties the decision problem in set theory and formative processes The second part of the book is devoted to applications of the technique of formative processes to decision problems All chapters contain exercises and the book is appropriate for researchers and graduate students in the area of computer science logic *Reasoning, Action and*

Interaction in AI Theories and Systems Oliviero Stock,2006-09-04 The present book is a festschrift in honor of Luigia Carlucci Aiello The 18 articles included are written by former students friends and international colleagues who have cooperated with Luigia Carlucci Aiello scientifically or in AI boards or committees The contributions by reputed researchers span a wide range of AI topics and reflect the breadth and depth of Aiello s own work **From Linear Operators to Computational**

Biology Martin Davis,Edmond Schonberg,2012-07-28 In his rich and varied career as a mathematician computer scientist

and educator Jacob T Schwartz wrote seminal works in analysis mathematical economics programming languages algorithmics and computational geometry In this volume of essays his friends students and collaborators at the Courant Institute of Mathematical Sciences present recent results in some of the fields that Schwartz explored quantum theory the theory and practice of programming program correctness and decision procedures dextrous manipulation in Robotics motion planning and genomics In addition to presenting recent results in these fields these essays illuminate the astonishingly productive trajectory of a brilliant and original scientist and thinker

Extensions of Logic Programming Evelina Lamma, Paola Mello, 1993-02-12 This book contains papers which investigate how to extend logic programming toward the artificial intelligence and software engineering areas covering both theoretical and practical aspects Some papers investigate topics such as abductive reasoning and negation Some works discuss how to enhance the expressive power of logic programming by introducing constraints sets and integration with functional programming Other papers deal with the structuring of knowledge into modules taxonomies and objects with the aim of extending logic programming toward software engineering applications A section is devoted to papers concentrating on proof theory and inspired by Gentzen style sequent or natural deduction systems Topics such as concurrency are considered to enhance the expressive power of logic languages Finally some papers mainly concern implementation techniques for some of these logic programming extensions

Relational and Kleene-Algebraic Methods in Computer Science R. Berghammer, Bernhard Möller, Georg Struth, 2004-06-01 This book constitutes the thoroughly refereed joint postproceedings of the 7th International Seminar on Relational Methods in Computer Science and the 2nd International Workshop on Applications of Kleene Algebra held in Bad Malente Germany in May 2003 The 21 revised full papers presented were carefully selected during two rounds of reviewing and improvement The papers address foundational and methodological aspects of the calculi of relations and Kleene algebra as well as applications of such methods in various areas of computer science and information processing

Database Theory - ICDT '95 Georg Gottlob, 1995-01-03 This volume presents the proceedings of the 1995 International Conference on Database Theory ICDT 95 held in Prague in January 1995 Besides two full invited papers and the abstracts of two tutorials the book includes the revised full versions of 29 technical contributions selected from a total of 116 submissions The papers address all current aspects of database theory they are organized in sections on optimization nonmonotonic semantics query languages concurrency control advanced models probabilistic methods constraints and dependencies and Datalog analysis

Computer Aided Verification Swarat Chaudhuri, Azadeh Farzan, 2016-07-12 The two volume set LNCS 9779 and LNCS 9780 constitutes the refereed proceedings of the 28th International Conference on Computer Aided Verification CAV 2016 held in Toronto ON USA in July 2016 The total of 46 full and 12 short papers presented in the proceedings was carefully reviewed and selected from 195 submissions The papers were organized in topical sections named probabilistic systems synthesis constraint solving model checking program analysis timed and hybrid systems verification in practice concurrency

and automata and games *Theory and Applications of Relational Structures as Knowledge Instruments* Harrie de Swart, Ewa Orlowska, Gunther Schmidt, Marc Roubens, 2004-01-30 Relational structures abound in our daily environment relational databases data mining scaling procedures preference relations etc As the documentation of scientific results achieved within the European COST Action 274 TARSKI this book advances the understanding of relational structures and the use of relational methods in various application fields The 12 revised full papers were carefully reviewed and selected for presentations The papers are devoted to mechanization of relational reasoning relational scaling and preferences and algebraic and logical foundations of real world relations **Forthcoming Books** Rose Arny, 2001-08 *Rough Sets and Current Trends in Computing* Salvatore Greco, Yukata Hata, Shoji Hirano, Masahiro Inuiguchi, Sadaaki Miyamoto, Hung Son Nguyen, Roman Slowiński, 2006-11-03 This book constitutes the refereed proceedings of the 5th International Conference on Rough Sets and Current Trends in Computing RSCTC 2006 held in Kobe Japan in November 2006 The 91 revised full papers presented together with five invited papers and two commemorative papers were carefully reviewed and selected from 332 submissions **Neutrosophic Sets and Systems, vol. 61/2023** Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-11-15 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel's dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well **Rough Sets and Current Trends in Computing** Lech Polkowski, 2003-05-20 This volume constitutes the refereed proceedings of the First International Conference on Rough Sets and Current Trends in Computing RSCTC 98 held in Warsaw Poland in June 1998 The volume presents 82 revised papers carefully selected for inclusion in the proceedings also included are five invited contributions The volume is divided in topical sections on rough set methods statistical inference grammar systems and molecular computations logic in rough sets intelligent control rough sets in knowledge discovery and data discovery data mining evolutionary computation hybrid methods etc

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