

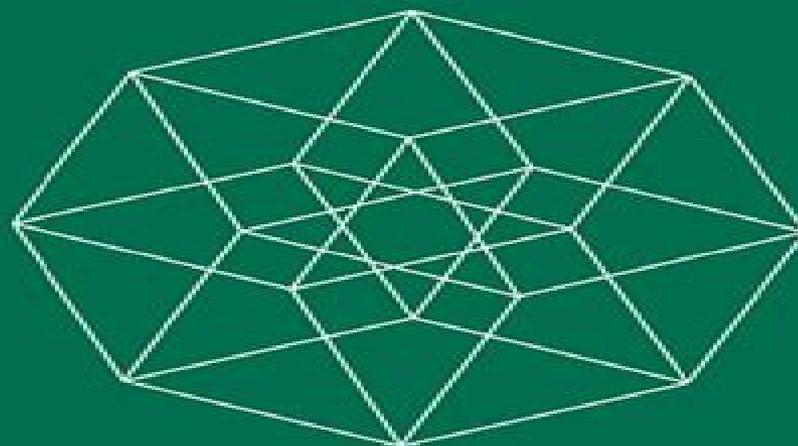


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Discrete Applied Mathematics Journal:

Advances in Discrete Applied Mathematics and Graph Theory Janez Žerovnik, Darja Rupnik Poklukar, 2022

Mathematical and Statistical Applications in Life Sciences and Engineering Avishek Adhikari, Mahima Ranjan

Adhikari, Yogendra Prasad Chaubey, 2017-12-06 The book includes articles from eminent international scientists discussing a wide spectrum of topics of current importance in mathematics and statistics and their applications. It presents state of the art material along with a clear and detailed review of the relevant topics and issues concerned. The topics discussed include message transmission, colouring, problem control of stochastic structures and information dynamics, image denoising, life testing and reliability, survival and frailty models, analysis of drought periods, prediction of genomic profiles, competing risks, environmental applications and chronic disease control. It is a valuable resource for researchers and practitioners in the relevant areas of mathematics and statistics.

Boolean Functions Yves Crama, Peter L. Hammer, 2011-05-16 Written by prominent experts in the field, this monograph provides the first comprehensive unified presentation of the structural, algorithmic and applied aspects of the theory of Boolean functions. The book focuses on algebraic representations of Boolean functions, especially disjunctive and conjunctive normal form representations. This framework looks at the fundamental elements of the theory: Boolean equations and satisfiability problems, prime implicants and associated short representations, dualization, an in-depth study of special classes of Boolean functions: quadratic, Horn, shellable, regular, threshold, read-once functions and their characterization by functional equations, and two fruitful generalizations of the concept of Boolean functions: partially defined functions and pseudo-Boolean functions. Several topics are presented here in book form for the first time. Because of the depth and breadth and its emphasis on algorithms and applications, this monograph will have special appeal for researchers and graduate students in discrete mathematics, operations research, computer science, engineering and economics.

Efficient Graph Representations. Jeremy P. Spinrad, 2003-01-01 **Mathematical Combinatorics, vol. I, 2015** Linfan Mao, Papers on Antidegree Equitable Sets in a Graph, One Modulo N Gracefulness of Some Arbitrary Supersubdivision and Removal Graphs, A New Approach to Natural Lift Curves of the Spherical Indicatrices of Timelike Bertrand Mate, On Signed Graphs Whose Two Path Signed Graphs are Switching Equivalent to Their Jump Signed Graphs and other topics. Contributors: C. Adiga, K. N. S. Krishna, Mathew Varkey, T. K. Sunoj, B. S. V. Ramachandran, C. Sekar, W. Barbara, P. Sugirtha, R. Vasuki, J. Venkateswari, Yizhi Chen, Siyan Li, Wei Chen and others.

Handbook of Satisfiability Armin Biere, 2009 Satisfiability (SAT) related topics have attracted researchers from various disciplines: logic, applied areas such as planning, scheduling, operations research and combinatorial optimization, but also theoretical issues on the theme of complexity and much more. They all are connected through SAT. My personal interest in SAT stems from actual solving. The increase in power of modern SAT solvers over the past 15 years has been phenomenal. It has become the key enabling technology in automated verification of both computer hardware and software. Bounded Model Checking (BMC) of computer

hardware is now probably the most widely used model checking technique The counterexamples that it finds are just satisfying instances of a Boolean formula obtained by unwinding to some fixed depth a sequential circuit and its specification in linear temporal logic Extending model checking to software verification is a much more difficult problem on the frontier of current research One promising approach for languages like C with finite word length integers is to use the same idea as in BMC but with a decision procedure for the theory of bit vectors instead of SAT All decision procedures for bit vectors that I am familiar with ultimately make use of a fast SAT solver to handle complex formulas Decision procedures for more complicated theories like linear real and integer arithmetic are also used in program verification Most of them use powerful SAT solvers in an essential way Clearly efficient SAT solving is a key technology for 21st century computer science I expect this collection of papers on all theoretical and practical aspects of SAT solving will be extremely useful to both students and researchers and will lead to many further advances in the field Edmund Clarke FORE Systems University Professor of Computer Science and Professor of Electrical and Computer Engineering at Carnegie Mellon University winner of the 2007 A M Turing Award

Max-linear Systems: Theory and Algorithms Peter Butkovič, 2010-08-05 Recent years have seen a significant rise of interest in max linear theory and techniques Specialised international conferences and seminars or special sessions devoted to max algebra have been organised This book aims to provide a first detailed and self contained account of linear algebraic aspects of max algebra for general that is both irreducible and reducible matrices Among the main features of the book is the presentation of the fundamental max algebraic theory Chapters 1 4 often scattered in research articles reports and theses in one place in a comprehensive and unified form This presentation is made with all proofs and in full generality that is for both irreducible and reducible matrices Another feature is the presence of advanced material Chapters 5 10 most of which has not appeared in a book before and in many cases has not been published at all Intended for a wide ranging readership this book will be useful for anyone with basic mathematical knowledge including undergraduate students who wish to learn fundamental max algebraic ideas and techniques It will also be useful for researchers working in tropical geometry or idempotent analysis

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Acronyms Dictionary Gale Research Company, 1960

Foundations of Software Technology and Theoretical Computer Science P.S. Thiagarajan, 1994-11-23 This volume presents the proceedings of the 14th International Conference on the Foundations of Software Technology and Theoretical Computer Science FST TCS 14 held in Madras India in December 1994 Besides the five invited papers by well known researchers it includes 31 full refereed research papers selected out of a total of 140 submissions The papers

contribute to the whole area of theoretical computer science with an emphasis on algorithms and complexity Other topics covered are program semantics program verification formal logic computational geometry concurrency unification and discrete mathematics **Foundations of Software Technology and Theoretical Computer Science** ,1994

Mathematical Journals ,1992-06 Provides an overview of English language publications in the field of mathematics should become a part of all academic mathematics reference collections CHOICE Workshop on Mathematics of Computer Algorithms (May 7-15, 1986) K. Srinivasa Rao,1986 *Fulltext Sources Online* ,2008 Willing's Press Guide and Advertisers' Directory and Handbook ,1996

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