LOGIC AND DISCRETE MATHEMATICS

A Computer Science Perspective

WINFRIED KARL GRASSMANN
JEAN-PAUL TREMBLAY

Logic And Discrete Mathematics A Computer Science Perspective

Winfried K. Grassmann,Jean-Paul Tremblay

Logic And Discrete Mathematics A Computer Science Perspective:

   Logic and Discrete Mathematics Winfried Karl Grassmann,Jean-Paul Tremblay,1996 For one two semester sophomore level courses in Discrete Mathematics This text covers all the traditional topics of discrete mathematics logic sets relations functions and graphs and reflects recent trends in computer science *Logic and Discrete Mathematics* Winfried K. Grassmann,Jean-Paul Tremblay,1998 *A Logical Approach to Discrete Math* David Gries,Fred B. Schneider,1993-10-22 Here the authors strive to change the way logic and discrete math are taught in computer science and mathematics while many books treat logic simply as another topic of study this one is unique in its willingness to go one step further The book traets logic as a basic tool which may be applied in essentially every other area **Lectures On Discrete Mathematics For Computer Science** Bakhadyr M Khoussainov,Nodira Khoussainova,2012-03-21 This textbook presents fundamental topics in discrete mathematics introduced from the perspectives of a pure mathematician and an applied computer scientist The synergy between the two complementary perspectives is seen throughout the book key concepts are motivated and explained through real world examples and yet are still formalized with mathematical rigor The book is an excellent introduction to discrete mathematics for computer science software engineering and mathematics students The first author is a leading mathematician in the area of logic computability and theoretical computer science with more than 25 years of teaching and research experience The second author is a computer science PhD student at the University of Washington specializing in database systems The father and daughter team merges two different views to create a unified book for students interested in learning discrete mathematics the connections between discrete mathematics and computer science and the mathematical foundations of computer science Readers will learn how to formally define abstract concepts reason about objects such as programs graphs and numbers investigate properties of algorithms and prove their correctness The textbook studies several well known algorithmic problems including the path problem for graphs and finding the greatest common divisor inductive definitions proofs of correctness of algorithms via loop invariants and induction the basics of formal methods such as propositional logic finite state machines counting probability as well as the foundations of databases such as relational calculus **A Logical Approach to Discrete Math** David Gries,Fred B. Schneider,2013-03-14 This text attempts to change the way we teach logic to beginning students Instead of teaching logic as a subject in isolation we regard it as a basic tool and show how to use it We strive to give students a skill in the propo sitional and predicate calculi and then to exercise that skill thoroughly in applications that arise in computer science and discrete mathematics We are not logicians but programming methodologists and this text reflects that perspective We are among the first generation of scientists who are more interested in using logic than in studying it With this text we hope to empower further generations of computer scientists and math ematicians to become serious users of logic Logic is the glue Logic is the glue that binds together methods of reasoning in all domains The traditional proof methods for example proof by assumption con tradiction mutual

implication and induction have their basis in formal logic Thus whether proofs are to be presented formally or informally a study of logic can provide understanding   Mathematics of Discrete Structures for Computer Science Gordon J. Pace,2012-07-09 Mathematics plays a key role in computer science some researchers would consider computers as nothing but the physical embodiment of mathematical systems And whether you are designing a digital circuit a computer program or a new programming language you need mathematics to be able to reason about the design its correctness robustness and dependability This book covers the foundational mathematics necessary for courses in computer science The common approach to presenting mathematical concepts and operators is to define them in terms of properties they satisfy and then based on these definitions develop ways of computing the result of applying the operators and prove them correct This book is mainly written for computer science students so here the author takes a different approach he starts by defining ways of calculating the results of applying the operators and then proves that they satisfy various properties After justifying his underlying approach the author offers detailed chapters covering propositional logic predicate calculus sets relations discrete structures structured types numbers and reasoning about programs The book contains chapter and section summaries detailed proofs and many end of section exercises key to the learning process The book is suitable for undergraduate and graduate students and although the treatment focuses on areas with frequent applications in computer science the book is also suitable for students of mathematics and engineering   Introduction to Discrete Mathematics via Logic and Proof Calvin Jongsma,2019-11-08 This textbook introduces discrete mathematics by emphasizing the importance of reading and writing proofs Because it begins by carefully establishing a familiarity with mathematical logic and proof this approach suits not only a discrete mathematics course but can also function as a transition to proof Its unique deductive perspective on mathematical logic provides students with the tools to more deeply understand mathematical methodology an approach that the author has successfully classroom tested for decades Chapters are helpfully organized so that as they escalate in complexity their underlying connections are easily identifiable Mathematical logic and proofs are first introduced before moving onto more complex topics in discrete mathematics Some of these topics include Mathematical and structural induction Set theory Combinatorics Functions relations and ordered sets Boolean algebra and Boolean functions Graph theory Introduction to Discrete Mathematics via Logic and Proof will suit intermediate undergraduates majoring in mathematics computer science engineering and related subjects with no formal prerequisites beyond a background in secondary mathematics   Rough Sets and Knowledge Technology Peng Wen,Yuefeng Li,Lech Polkowski,Yiyu Y. Yao,Shusaku Tsumoto,2009-06-24 This book constitutes the refereed proceedings of the Fourth International Conference on Rough Sets and Knowledge Technology RSKT 2009 held in Gold Coast Australia in July 2009 The 85 revised full papers papers presented together with 3 keynote papers and 2 special sessions were carefully reviewed and selected from 229 submissions The papers are organized in topical sections on rough sets and computing rough sets and data reduction data

mining and knowledge discovery granular computing and cognitive computing fuzzy sets and computing knowledge technology and intelligent systems computational intelligence and applications image processing and understanding and formal concept analysis   Fundamental Approach to Discrete Mathematics D. P. Acharjya,2009 About the Book The book Fundamental Approach to Discrete Mathematics is a required part of pursuing a computer science degree at most universities It provides in depth knowledge to the subject for beginners and stimulates further interest in the topic The salient features of this book include Strong coverage of key topics involving recurrence relation combinatorics Boolean algebra graph theory and fuzzy set theory Algorithms and examples integrated throughout the book to bring clarity to the fundamental concepts Each concept and definition is followed by thoughtful examples   Classical and Quantum Computing Yorick Hardy,Willi H. Steeb,2012-12-06 Classical and Quantum computing provides a self contained systematic and comprehensive introduction to all the subjects and techniques important in scientific computing The style and presentation are readily accessible to undergraduates and graduates A large number of examples accompanied by complete C and Java code wherever possible cover every topic Features and benefits Comprehensive coverage of the theory with many examples Topics in classical computing include boolean algebra gates circuits latches error detection and correction neural networks Turing machines cryptography genetic algorithms For the first time genetic expression programming is presented in a textbook Topics in quantum computing include mathematical foundations quantum algorithms quantum information theory hardware used in quantum computing This book serves as a textbook for courses in scientific computing and is also very suitable for self study Students professionals and practitioners in computer science applied mathematics and physics will benefit from using the book and the included software simulations   Rough Sets and Knowledge Technology Davide Ciucci,Guoyin Wang,Sushmita Mitra,Wei-Zhi Wu,2015-11-21 This book constitutes the thoroughly refereed conference proceedings of the 10th International Conference on Rough Sets and Knowledge Technology RSKT 2015 held in Tianjin China in November 2015 as part of the International Joint Conference on Rough Sets IJCRS 2015 together with the 15th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDgrC 2015 The 66 papers presented at IJCRS 2015 were carefully reviewed and selected from 97 submissions The 38 papers included in this volume are organized in the following topical sections rough sets the experts speak reducts and rules three way decisions logic and algebra clustering rough sets and graphs and modeling and learning In addition the volume contains 6 contributions by new fellows of the International Rough Set Society an invited talk and a tutorial   **Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing** Dominik Ślęzak,2005-08-22 The two volume set LNAI 3641 and LNAI 3642 constitutes the refereed proceedings of the 10th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2005 held in Regina Canada in August September 2005 The 119 revised full papers presented were carefully reviewed and selected from a total of 277 submissions They comprise the two volumes together with 6 invited papers 22 approved

workshop papers and 5 special section papers that all were carefully selected and thoroughly revised The first volume includes 75 contributions related to rough set approximations rough algebraic foundations feature selection and reduction reasoning in information systems rough probabilistic approaches rough fuzzy hybridization fuzzy methods in data analysis evolutionary computing machine learning approximate and uncertain reasoning probabilistic network models spatial and temporal reasoning non standard logics and granular computing The second volume contains 77 contributions and deals with rough set software data mining hybrid and hierarchical methods information retrieval image recognition and processing multimedia applications medical applications web content analysis business and industrial applications the approved workshop papers and the papers accepted for a special session on intelligent and sapient systems   Collected Papers Of Stephen Smale, The (In 3 Volumes) - Volume 3 Roderick S C Wong,Felipe Cucker,2000-06-30 This invaluable book contains the collected papers of Stephen Smale These are divided into eight groups topology calculus of variations dynamics mechanics economics biology electric circuits and mathematical programming theory of computation miscellaneous In addition each group contains one or two articles by world leaders on its subject which comment on the influence of Smale s work and another article by Smale with his own retrospective views   **Software Engineering Processes** Yingxu Wang,Graham King,2000-04-21 Software engineering is playing an increasingly significant role in computing and informatics necessitated by the complexities inherent in large scale software development To deal with these difficulties the conventional life cycle approaches to software engineering are now giving way to the process system approach encompassing development me   **The Collected Papers of Stephen Smale** Stephen Smale,Felipe Cucker,Roderick Wong,2000 This invaluable book contains the collected papers of Stephen Smale These are divided into eight groups topology calculus of variations dynamics mechanics economics biology electric circuits and mathematical programming theory of computation miscellaneous In addition each group contains one or two articles by world leaders on its subject which comment on the influence of Smale s work and another article by Smale with his own retrospective views   **Perspectives of Neural-Symbolic Integration** Barbara Hammer,Pascal Hitzler,2007-08-14 The human brain possesses the remarkable capability of understanding terpreting and producing human language thereby relying mostly on the left hemisphere The ability to acquire language is innate as can be seen from d orders such as speci c language impairment SLI which manifests itself in a missing sense for grammaticality Language exhibits strong compositionality and structure Hence biological neural networks are naturally connected to processing and generation of high level symbolic structures Unlike their biological counterparts arti cial neural networks and logic do not form such a close liason Symbolic inference mechanisms and statistical machine learning constitute two major and very di erent paradigms in ar cial intelligence which both have their strengths and weaknesses Statistical methods o er exible and highly e ective tools which are ideally suited for possibly corrupted or noisy data high uncertainty and missing information as occur in everyday life such as sensor streams in robotics measurements in medicine

such as EEG and EKG nancial and market indices etc The m els however are often reduced to black box mechanisms which complicate the integration of prior high level knowledge or human inspection and they lack theabilitytocopewitharichstructureofobjects classes andrelations S bolic mechanisms on the other hand are perfectly applicative for intuitive human machine interaction the integration of complex prior knowledge and well founded recursive inference Their capability of dealing with uncertainty andnoiseandtheire ciencywhenaddressingcorruptedlargescalereal world data sets however is limited Thus the inherent strengths and weaknesses of these two methods ideally complement each other **High Performance Networking, Computing, and Communication Systems** Yanwen Wu,2011-11-02 This book constitutes the refereed post proceedings of the Second International Conference on High Performance Networking Computing and Communication systems ICHCC 2011 held in Singapore in May 2011 The conference was held together with the Second International Conference on Theoretical and Mathematical Foundations of Computer Science ICTMF 2011 which proceedings are published in CCIS 164 The 84 revised selected papers presented were carefully reviewed and selected for inclusion in the book The topics covered range from computational science engineering and technology to digital signal processing and computational biology to game theory and other related topics *From Calculus to Computers* Amy Shell-Gellasch,Dick Jardine,2005 Classroom resource material allowing the integration of mathematics history into undergraduate mathematics teaching *Discrete Mathematics Using a Computer* John O'Donnell,Cordelia Hall,Rex Page,2007-01-04 Computer science abounds with applications of discrete mathematics yet s dents of computer science often study discrete mathematics in the context of purely mathematical applications They have to gure out for themselves how to apply the ideas of discrete mathematics to computing problems It is not easy Most students fail to experience broad success in this enterprise which is not surprising since many of the most important advances in science and engineeringhavebeen precisely applicationsofmathematicstospeci cscience and engineering problems Tobesure mostdiscretemathtextbooksincorporatesomeaspectsapplying discrete math to computing but it usually takes the form of asking students to write programs to compute the number of three ball combinations there are in a set of ten balls or at best to implement a graph algorithm Few texts ask students to use mathematical logic to analyze properties of digital circuits or computer programs or to apply the set theoretic model of functions to understand higher order operations A major aim of this text is to integrate tightly the study of discrete mathematics with the study of central problems of computer science

Logic, Epistemology, and the Unity of Science Shahid Rahman,John Symons,Dov M. Gabbay,jean paul van bendegem,2009-03-15 The first volume in this new series explores through extensive co operation new ways of achieving the integration of science in all its diversity The book offers essays from important and influential philosophers in contemporary philosophy discussing a range of topics from philosophy of science to epistemology philosophy of logic and game theoretical approaches It will be of interest to philosophers computer scientists and all others interested in the scientific rationality

Reviewing **Logic And Discrete Mathematics A Computer Science Perspective**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Logic And Discrete Mathematics A Computer Science Perspective**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web sep 7 2022   19 3 1 print advertising once a huge driver of sales print is taking a back seat to the many digital forms of advertising now available to marketers however if there is one thing that s certain about advertising it s that being different is good and when consumers tire of digital ads a return to printed pieces and the tactile feeling and

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web an executive summary for managers and executive advertising vs sales promotion readers can be found at the end of this article a brand management perspective george s low assistant professor of marketing m j neeley school of business texas christian university fort worth texas usa jakki j mohr associate professor of marketing

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web advertising sales promotion and sales management are an integral part of taking any product or service to the market bachelor of commerce in advertising sales promotion and sales management covers a range of topics such as business organisation fundamentals of advertising accounting basics banking basics and others

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web nov 14 2023   a sales promotion is a marketing strategy in which a business uses a temporary campaign or offer to increase interest or demand in its product or service there are many reasons why a business may choose to use a sales promotion or promo but the primary reason is to boost sales

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web 1 advertising and sales promotion unit i introduction adverting is only one element of the promotion mix but it often considered prominent in the overall marketing mix design its high visibility and pervasiveness made it as an important social and encomia topic in indian society

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web jun 26 2018   one of the keystones of online advertising is search engine optimisation also known as seo this is the process of getting free organic traffic to your website with the use of certain keywords and keyword phrases seo involves building a user friendly website earning backlinks and much more the more relevant you appear to the search

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web the marketing communications mix also called the promotion mix consists of four major tools advertising personal

selling sales promotion and public relations each tool has its own unique characteristics and costs

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web in a push strategy the promotional mix would consist of trade advertising and sales calls while the advertising media would normally be weighted towards trade magazines exhibitions and trade shows while a pull strategy would make more extensive use consumer oriented advertising and sales promotions while the media mix would be

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web between the covers the book discusses the entire marketing communication package consisting of advertising publicity public relations direct marketing and sales promotion apart from mass communication person to person communication in the form of personal selling is also covered in sufficient details

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web marketing implementation companies have typically hired different agencies to help in the development of advertising sales promotion and publicity ideas however this often results in a lack of coordination between elements of the promotion mix when components of the mix are not all in harmony a confusing message may be sent to consumers

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web jun 16 2022   tip 1 get to know your audience do in depth research on your target market and localize your advertising efforts to create a successful marketing and advertising campaign it is key to understand the audience you are targeting singapore is a multicultural multiracial and multi religious country made up mostly of chinese malay

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web learn about buying behavior sales promotions are a great strategy that helps businesses learn about the purchasing pattern of their customers enhancing sales with an innovative sales promotion technique sales teams can drive up a considerable amount of revenue by enhancing sales earning loyalty

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web it includes tools for consumer promotion trade promotion business sales force promotion rapid growth a decade ago ad to sales promotion ratio was about 40 60 now is like 25 75 growing this is due to managers need to increase sales internal some external causes like the of brands has increased seen as similar competitors

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web nov 1 2000   based on survey data collected from 165 brand managers in the usa higher advertising vs sales promotion allocations are associated with single relatively high priced brands in the

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