



DISCRETE MATHEMATICS AND ITS APPLICATIONS IN NETWORK ANALYSIS

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Abstract: In this article we will give a small introduction to the discrete mathematics and its application in network analysis. Because of limitations regarding this article (extended summary) and because we are aware that the scientific study of networks, such as computer networks, biological networks, and social networks, is an interdisciplinary field that combines ideas from mathematics, physics, biology, computer science, the social sciences, and many other areas, we will try to describe some basic types of networks studied by present day science as well as some techniques used to determine their structure.

Key words: Networks, discrete mathematics, network analysis, ViSOC

DISKRETNJA MATEMATIKA I NJENE PRIMJENE U MREŽNOJ ANALIZI

Sažetak: U ovom radu dat ćemo samo kraći uvod u diskretnu matematiku te njezine primjene/aplikacije u mrežnoj analizi. Budući smo svjesni ograničenja vezanih za ovaj rad (prošireni sažetak), te budući smo svjesni činjenice kako je znanstveno proučavanje/studija mreža, kao na primjer računalnih mreža, bioloških mreža, te društvenih mreža, u biti interdisciplinarno polje u kojem se kombiniraju i isprepljuju ideje iz matematike, fizike, biologije, računalnih znanosti, i društvenih znanosti, kao i mnogih drugih područja, pokušat ćemo opisati neke osnovne tipove mreža koji su bili predmetom proučavanja znanosti do današnjeg vremena, kao i neke tehnike koje se koriste za utvrđivanje njihove strukture.

Ključne riječi: Mreže, diskretna matematika, mrežna analiza, ViSOC

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Algebraic and Discrete Mathematical Methods for Modern Biology Raina Robeva, 2015-05-09 Written by experts in both mathematics and biology *Algebraic and Discrete Mathematical Methods for Modern Biology* offers a bridge between math and biology providing a framework for simulating analyzing predicting and modulating the behavior of complex biological systems Each chapter begins with a question from modern biology followed by the description of certain mathematical methods and theory appropriate in the search of answers Every topic provides a fast track pathway through the problem by presenting the biological foundation covering the relevant mathematical theory and highlighting connections between them Many of the projects and exercises embedded in each chapter utilize specialized software providing students with much needed familiarity and experience with computing applications critical components of the modern biology skill set This book is appropriate for mathematics courses such as finite mathematics discrete structures linear algebra abstract modern algebra graph theory probability bioinformatics statistics biostatistics and modeling as well as for biology courses such as genetics cell and molecular biology biochemistry ecology and evolution Examines significant questions in modern biology and their mathematical treatments Presents important mathematical concepts and tools in the context of essential biology Features material of interest to students in both mathematics and biology Presents chapters in modular format so coverage need not follow the Table of Contents Introduces projects appropriate for undergraduate research Utilizes freely accessible software for visualization simulation and analysis in modern biology Requires no calculus as a prerequisite Provides a complete Solutions Manual Features a companion website with supplementary resources **Advanced Information**

Networking and Applications Leonard Barolli, Makoto Takizawa, Fatos Xhafa, Tomoya Enokido, 2019-03-14 The aim of the book is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuators are emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks This book covers the theory design and applications of computer networks distributed computing and information systems [Handbook of Healthcare Operations Management](#) Brian T. Denton, 2013-02-28 From the Preface Collectively the chapters in this book address application domains including inpatient

and outpatient services public health networks supply chain management and resource constrained settings in developing countries Many of the chapters provide specific examples or case studies illustrating the applications of operations research methods across the globe including Africa Australia Belgium Canada the United Kingdom and the United States Chapters 1 4 review operations research methods that are most commonly applied to health care operations management including queuing simulation and mathematical programming Chapters 5 7 address challenges related to inpatient services in hospitals such as surgery intensive care units and hospital wards Chapters 8 10 cover outpatient services the fastest growing part of many health systems and describe operations research models for primary and specialty care services and how to plan for patient no shows Chapters 12 16 cover topics related to the broader integration of health services in the context of public health including optimizing the location of emergency vehicles planning for mass vaccination events and the coordination among different parts of a health system Chapters 17 18 address supply chain management within hospitals with a focus on pharmaceutical supply management and the challenges of managing inventory for nursing units Finally Chapters 19 20 provide examples of important and emerging research in the realm of humanitarian logistics

Collaborative Networks:Reference Modeling Luis M. Camarinha-Matos,Hamideh Afsarmanesh,2008-05-25 Collaborative Networks Reference Modeling works to establish a theoretical foundation for Collaborative Networks Particular emphasis is put on modeling multiple facets of collaborative networks and establishing a comprehensive modeling framework that captures and structures diverse perspectives of these complex entities Further this book introduces a contribution to the definition of reference models for Collaborative Networks Collaborative Networks Reference Modeling provides valuable elements for researchers PhD students engineers managers and leading practitioners interested in collaborative systems and networked society

Short-Range Wireless Communications Rolf Kraemer,Marcos Katz,2009-02-05 This unique book reviews the future developments of short range wireless communication technologies Short Range Wireless Communications Emerging Technologies and Applications summarizes the outcomes of WWRF Working Group 5 highlighting the latest research results and emerging trends on short range communications It contains contributions from leading research groups in academia and industry on future short range wireless communication systems in particular 60 GHz communications ultra wide band UWB communications UWB radio over optical fiber and design rules for future cooperative short range communications systems Starting from a brief description of state of the art the authors highlight the perspectives and limits of the technologies and identify where future research work is going to be focused Key Features Provides an in depth coverage of wireless technologies that are about to start an evolution from international standards to mass products and that will influence the future of short range communications Offers a unique and invaluable visionary overview from both industry and academia Identifies open research problems technological challenges emerging technologies and fundamental limits Covers ultra high speed short range communication in the 60 GHz band UWB communication limits and challenges cooperative aspects in

short range communication and visible light communications and UWB radio over optical fiber This book will be of interest to research managers R D engineers lecturers and graduate students within the wireless communication research community Executive managers and communication engineers will also find this reference useful *Control and Dynamic Systems V49: Manufacturing and Automation Systems: Techniques and Technologies* C.T. Leonides,2012-12-02 Control and Dynamic Systems Advances in Theory and Applications Volume 49 Manufacturing and Automation Systems Techniques and Technologies Part 5 of 5 discusses advances in techniques and technologies in manufacturing and automation systems This volume first provides insights on some limitations in machine functions such as computational processes It then describes fundamental techniques in manufacturing and automation systems such as neural network techniques techniques used in the agricultural industry modeling and simulation knowledge based simulation environment techniques detection of faults computer assisted tomography and finite element modeling and sensor integration This book will provide a uniquely significant reference for practising engineers looking for a comprehensive treatment of techniques and technologies in manufacturing and automation system Covers many advanced topics Provides a uniquely significant reference for practising engineers looking for a comprehensive treatment of techniques and technologies in manufacturing and automation system

Methods in Chemical Process Safety ,2020-06-26 Methods in Chemical Process Safety Volume Four focuses on the process of learning from experience including elements of process safety management human factors in the chemical process industries and the regulation of chemical process safety including current approaches Users will find this book to be an informative tool and user manual for process safety for a variety of professionals with this new release focusing on Advanced Methods of Risk Assessment and Management Logic Based Methods for Dynamic Risk Assessment Bayesian Methods for Dynamic Risk Assessment Data Driven Methods Rare Event Risk Assessment Risk Management and Multi Criteria and much more Helps acquaint the reader researcher with the fundamentals of process safety Provides the most recent advancements and contributions on the topic from a practical point of view Presents users with the views opinions of experts in each topic Includes a selection of authors who are leading researchers and or practitioners for each given topic *Approximate Dynamic Programming* Warren B. Powell,2011-10-26 Praise for the First Edition Finally a book devoted to dynamic programming and written using the language of operations research OR This beautiful book fills a gap in the libraries of OR specialists and practitioners Computing Reviews This new edition showcases a focus on modeling and computation for complex classes of approximate dynamic programming problems Understanding approximate dynamic programming ADP is vital in order to develop practical and high quality solutions to complex industrial problems particularly when those problems involve making decisions in the presence of uncertainty Approximate Dynamic Programming Second Edition uniquely integrates four distinct disciplines Markov decision processes mathematical programming simulation and statistics to demonstrate how to successfully approach model and solve a wide range of real life problems using ADP The book continues

to bridge the gap between computer science simulation and operations research and now adopts the notation and vocabulary of reinforcement learning as well as stochastic search and simulation optimization The author outlines the essential algorithms that serve as a starting point in the design of practical solutions for real problems The three curses of dimensionality that impact complex problems are introduced and detailed coverage of implementation challenges is provided The Second Edition also features A new chapter describing four fundamental classes of policies for working with diverse stochastic optimization problems myopic policies look ahead policies policy function approximations and policies based on value function approximations A new chapter on policy search that brings together stochastic search and simulation optimization concepts and introduces a new class of optimal learning strategies Updated coverage of the exploration exploitation problem in ADP now including a recently developed method for doing active learning in the presence of a physical state using the concept of the knowledge gradient A new sequence of chapters describing statistical methods for approximating value functions estimating the value of a fixed policy and value function approximation while searching for optimal policies The presented coverage of ADP emphasizes models and algorithms focusing on related applications and computation while also discussing the theoretical side of the topic that explores proofs of convergence and rate of convergence A related website features an ongoing discussion of the evolving fields of approximation dynamic programming and reinforcement learning along with additional readings software and datasets Requiring only a basic understanding of statistics and probability Approximate Dynamic Programming Second Edition is an excellent book for industrial engineering and operations research courses at the upper undergraduate and graduate levels It also serves as a valuable reference for researchers and professionals who utilize dynamic programming stochastic programming and control theory to solve problems in their everyday work

[Dynamical Systems with Applications using MATLAB®](#) Stephen Lynch, 2004-06-10 This introduction to dynamical systems theory guides readers through theory via example and the graphical MATLAB interface the SIMULINK accessory is used to simulate real world dynamical processes Examples included are from mechanics electrical circuits economics population dynamics epidemiology nonlinear optics materials science and neural networks The book contains over 330 illustrations 300 examples and exercises with solutions

[Encyclopedia of Bioinformatics and Computational Biology](#) , 2018-08-21 Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable

resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases

Proceedings of the Fourteenth Annual ACM-SIAM Symposium on Discrete Algorithms, 2003-01-01 From the January 2003 symposium come just over 100 papers addressing a range of topics related to discrete algorithms Examples of topics covered include packing Steiner trees counting inversions in lists directed scale free graphs quantum property testing and improved results for directed multicut The papers were not formally refereed but attempts were made to verify major results

Annotation c 2003 Book News Inc Portland OR booknews com **Hierarchical Topology Control for Wireless Networks**

Jiguo Yu, Cheng Xiuzhen, Jiang Honglu, Dongxiao Yu, 2018-02-05 First Published in 2018 Routledge is an imprint of Taylor Francis an Informa company *Management of Uncertainty Using Linguistic Z-Numbers* Tofigh Allahviranloo, Sovan Samanta, 2024-11-04 This book is an in depth study of the application of Linguistic Z numbers in various domains It is divided into 18 chapters each focusing on different aspects and applications of Linguistic Z numbers The first chapter introduces the concept of a Linguistic Z number fuzzy probabilistic rough set and their corresponding three way decisions The second chapter discusses the TOPSIS based multi attribute group decision making MAGDM under Linguistic Z number information The third chapter presents a new approach of multi criteria group decision making MCGDM MARCOS based alternatives measurement with ranking under Linguistic Z number information and their application in the selection of logistics distribution cold chain center The fourth chapter focuses on the Linguistic Z number environment based site selection of medical logistic centers with the TODIM VIKOR approach The fifth chapter explores MCGDM based on TODIM PROMETHEE II under Linguistic Z number environment and their application in site selection of emergency shelters The sixth chapter introduces a novel approach of extended ORESTE based Linguistic Z number MAGDM and their applications in the ability of regional energy assessment The seventh chapter discusses MCGDM based on MULTIMOORA with Linguistic Z number and their application in software selection The eighth chapter presents multi criteria group decision making using the LogTODIM TOPSIS approach in a Linguistic Z number environment for selecting auto parts materials in the technology of automobiles The ninth chapter introduces a Linguistic Z number CoCoSo approach for multi criteria group decision making and application to the diagnosis of sepsis The tenth chapter discusses The ExpTODIM VIKOR approach under a Linguistic Z number environment and its applications to solve multi criteria group decision making problems This book provides a deep understanding of Linguistic Z numbers and their applications in decision making granular computing and social networks It is a valuable resource for researchers and practitioners in these fields **Systems Biology** Aleš Prokop, Béla

Csukás,2013-08-28 Growth in the pharmaceutical market has slowed down almost to a standstill One reason is that governments and other payers are cutting costs in a faltering world economy But a more fundamental problem is the failure of major companies to discover develop and market new drugs Major drugs losing patent protection or being withdrawn from the market are simply not being replaced by new therapies the pharmaceutical market model is no longer functioning effectively and most pharmaceutical companies are failing to produce the innovation needed for success This multi authored new book looks at a vital strategy which can bring innovation to a market in need of new ideas and new products Systems Biology SB Modeling is a significant task of systems biology SB aims to develop and use efficient algorithms data structures visualization and communication tools to orchestrate the integration of large quantities of biological data with the goal of computer modeling It involves the use of computer simulations of biological systems such as the networks of metabolites comprise signal transduction pathways and gene regulatory networks to both analyze and visualize the complex connections of these cellular processes SB involves a series of operational protocols used for performing research namely a cycle composed of theoretical analytic or computational modeling to propose specific testable hypotheses about a biological system experimental validation and then using the newly acquired quantitative description of cells or cell processes to refine the computational model or theory Fundamentals of Discrete Element Methods for Rock Engineering: Theory and Applications

Lanru Jing,Ove Stephansson,2007-07-18 This book presents some fundamental concepts behind the basic theories and tools of discrete element methods DEM its historical development and its wide scope of applications in geology geophysics and rock engineering Unlike almost all books available on the general subject of DEM this book includes coverage of both explicit and implicit DEM approaches namely the Distinct Element Methods and Discontinuous Deformation Analysis DDA for both rigid and deformable blocks and particle systems and also the Discrete Fracture Network DFN approach for fluid flow and solute transport simulations The latter is actually also a discrete approach of importance for rock mechanics and rock engineering In addition brief introductions to some alternative approaches are also provided such as percolation theory and Cosserat micromechanics equivalence to particle systems which often appear hand in hand with the DEM in the literature Fundamentals of the particle mechanics approach using DEM for granular media is also presented Presents the fundamental concepts of the discrete models for fractured rocks including constitutive models of rock fractures and rock masses for stress deformation and fluid flow Provides a comprehensive presentation on discrete element methods including distinct elements discontinuous deformation analysis discrete fracture networks particle mechanics and Cosserat representation of granular media Features constitutive models of rock fractures and fracture system characterization methods detailing their significant impacts on the performance and uncertainty of the DEM models **AI and Big Data's**

Potential for Disruptive Innovation Strydom, Moses,Buckley, Sheryl,2019-09-27 Big data and artificial intelligence AI are at the forefront of technological advances that represent a potential transformational mega trend a new multipolar and

innovative disruption These technologies and their associated management paradigm are already rapidly impacting many industries and occupations but in some sectors the change is just beginning Innovating ahead of emerging technologies is the new imperative for any organization that aspires to succeed in the next decade Faced with the power of this AI movement it is imperative to understand the dynamics and new codes required by the disruption and to adapt accordingly AI and Big Data s Potential for Disruptive Innovation provides emerging research exploring the theoretical and practical aspects of successfully implementing new and innovative technologies in a variety of sectors including business transportation and healthcare Featuring coverage on a broad range of topics such as semantic mapping ethics in AI and big data governance this book is ideally designed for IT specialists industry professionals managers executives researchers scientists and engineers seeking current research on the production of new and innovative mechanization and its disruptions *HCI International 2023 - Late Breaking Papers* Vincent G. Duffy, Heidi Krömker, Norbert A. Streitz, Shin'ichi Konomi, 2023-11-17 This seven volume set LNCS 14054 14060 constitutes the proceedings of the 25th International Conference HCI International 2023 in Copenhagen Denmark in July 2023 For the HCCII 2023 proceedings a total of 1578 papers and 396 posters was carefully reviewed and selected from 7472 submissions Additionally 267 papers and 133 posters are included in the volumes of the proceedings published after the conference as Late Breaking Work These papers were organized in the following topical sections HCI Design and User Experience Cognitive Engineering and Augmented Cognition Cultural Issues in Design Technologies for the Aging Population Accessibility and Design for All Designing for Health and Wellbeing Information Design Visualization Decision making and Collaboration Social Media Creative Industries and Cultural Digital Experiences Digital Human Modeling Ergonomics and Safety HCI in Automated Vehicles and Intelligent Transportation Sustainable GreenSmart Cities and Smart Industry eXtended Reality Interactions Gaming and Gamification Experiences Interacting with Artificial Intelligence Security Privacy Trust and Ethics Learning Technologies and Learning Experiences eCommerce Digital Marketing and eFinance **Marine Engines Performance and Emissions** María Isabel Lamas Galdo, 2021-09-02 This book contains a collection of peer review scientific papers about marine engines performance and emissions These papers were carefully selected for the Marine Engines Performance and Emissions Special Issue of the Journal of Marine Science and Engineering Recent advancements in engine technology have allowed designers to reduce emissions and improve performance Nevertheless further efforts are needed to comply with the ever increased emission legislations This book was conceived for people interested in marine engines This information concerning recent developments may be helpful to academics researchers and professionals engaged in the field of marine engineering **Risk Analysis and Control for Industrial Processes - Gas, Oil and Chemicals** Hans J Pasman, 2015-06-14 Risk Analysis and Control for Industrial Processes Gas Oil and Chemicals provides an analysis of current approaches for preventing disasters and gives readers an overview on which methods to adopt The book covers safety regulations history

and trends industrial disasters safety problems safety tools and capital and operational costs versus the benefits of safety all supporting project decision processes Tools covered include present day array of risk assessment tools including HAZOP LOPA and ORA but also new approaches such as System Theoretic Process Analysis STPA Blended HAZID applications of Bayesian data analytics Bayesian networks and others The text is supported by valuable examples to help the reader achieve a greater understanding on how to perform safety analysis identify potential issues and predict the likelihood they may appear Presents new methods on how to identify hazards of low probability high consequence events Contains information on how to develop and install safeguards against such events with guidance on how to quantify risk and its uncertainty and how to make economic and societal decisions about risk Demonstrates key concepts through the use of examples and relevant case studies

The Neural Simulation Language Alfredo Weitzenfeld, Michael A. Arbib, Amanda Alexander, 2002
Simulation in NSL Modeling in NSL Schematic Capture System User Interface and Graphical Windows The Modeling Language NSLM The Scripting Language NSLS Adaptive Resonance Theory Depth Perception Retina Receptive Fields The Associative Search Network Landmark Learning and Hill Climbing A Model of Primate Visual Motor Conditional Learning The Modular Design of the Oculomotor System in Monkeys Crowley Arbib Saccade Model A Cerebellar Model of Sensorimotor Adaptation Learning to Detour Face Recognition by Dynamic Link Matching Appendix I NSLM Methods NSLJ Extensions NSLC Extensions NSLJ and NSLC Differences NSLJ and NSLC Installation Instructions

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