

Studies in Big Data 39

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Cloud Computing for Optimization: Foundations, Applications, and Challenges

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Optimization Foundations And Applications

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Linear Programming Robert J Vanderbei, 2013-07-16 This Fourth Edition introduces the latest theory and applications in optimization It emphasizes constrained optimization beginning with a substantial treatment of linear programming and then proceeding to convex analysis network flows integer programming quadratic programming and convex optimization Readers will discover a host of practical business applications as well as non business applications Topics are clearly developed with many numerical examples worked out in detail Specific examples and concrete algorithms precede more abstract topics With its focus on solving practical problems the book features free C programs to implement the major algorithms covered including the two phase simplex method primal dual simplex method path following interior point method and homogeneous self dual methods In addition the author provides online JAVA applets that illustrate various pivot rules and variants of the simplex method both for linear programming and for network flows These C programs and JAVA tools can be found on the book's website The website also includes new online instructional tools and exercises

[Introduction to Nonlinear Optimization](#) Amir Beck, 2014 This book provides the foundations of the theory of nonlinear optimization as well as some related algorithms and presents a variety of applications from diverse areas of applied sciences The author combines three pillars of optimization theoretical and algorithmic foundation familiarity with various applications and the ability to apply the theory and algorithms on actual problems and rigorously and gradually builds the connection

between theory algorithms applications and implementation Intelligent Technologies and Applications Imran Sarwar Bajwa, Tatjana Sibalija, Dayang Norhayati Abang Jawawi, 2020-05-08 This book constitutes the refereed proceedings of the Second International Conference on Intelligent Technologies and Applications INTAP 2019 held in Bahawalpur Pakistan in November 2019 The 60 revised full papers and 6 revised short papers presented were carefully reviewed and selected from 224 submissions Additionally the volume presents 1 invited paper The papers of this volume are organized in topical sections on AI and health sentiment analysis intelligent applications social media analytics business intelligence Natural Language Processing information extraction machine learning smart systems semantic web decision support systems image analysis automated software engineering *Nature Inspired Computing for Data Science* Minakhi Rout, Jitendra Kumar Rout, Himansu Das, 2019-11-26 This book discusses the current research and concepts in data science and how these can be addressed using different nature inspired optimization techniques Focusing on various data science problems including classification clustering forecasting and deep learning it explores how researchers are using nature inspired optimization techniques to find solutions to these problems in domains such as disease analysis and health care object recognition vehicular ad hoc networking high dimensional data analysis gene expression analysis microgrids and deep learning As such it provides insights and inspiration for researchers to wanting to employ nature inspired optimization techniques in their own endeavors **Proceedings of the International Conference on Computational Intelligence and Sustainable Technologies** Kedar Nath Das, Debasish Das, Anjan Kumar Ray, Ponnuthurai Nagaratnam Suganthan, 2022-02-12 This book presents the collection of the accepted research papers presented in the 1st International Conference on Computational Intelligence and Sustainable Technologies ICoCIST 2021 This edited book contains the articles related to the themes on artificial intelligence in machine learning big data analysis soft computing techniques pattern recognitions sustainable infrastructural development sustainable grid computing and innovative technology for societal development renewable energy and innovations in Internet of Things IoT **Machine Learning for Intelligent Decision Science** Jitendra Kumar Rout, Minakhi Rout, Himansu Das, 2020-04-02 The book discusses machine learning based decision making models and presents intelligent hybrid and adaptive methods and tools for solving complex learning and decision making problems under conditions of uncertainty Featuring contributions from data scientists practitioners and educators the book covers a range of topics relating to intelligent systems for decision science and examines recent innovations trends and practical challenges in the field The book is a valuable resource for academics students researchers and professionals wanting to gain insights into decision making Cloud Computing for Geospatial Big Data Analytics Himansu Das, Rabindra K. Barik, Harishchandra Dubey, Diptendu Sinha Roy, 2018-12-11 This book introduces the latest research findings in cloud edge fog and mist computing and their applications in various fields using geospatial data It solves a number of problems of cloud computing and big data such as scheduling security issues using different techniques which researchers from industry and academia

have been attempting to solve in virtual environments Some of these problems are of an intractable nature and so efficient technologies like fog edge and mist computing play an important role in addressing these issues By exploring emerging advances in cloud computing and big data analytics and their engineering applications the book enables researchers to understand the mechanisms needed to implement cloud edge fog and mist computing in their own endeavours and motivates them to examine their own research findings and developments

Discrete Mathematics and Its Applications Dr. R. Pushpalatha, Dr Lalit Mohan Trivedi, Dr. Javid Iqbal, Dr. D. Srinivasa Rao,2026-01-30 *Discrete Mathematics and Its Applications* introduces the fundamental mathematical structures and techniques used in computer science and engineering The subject covers logic set theory relations functions combinatorics graph theory trees and Boolean algebra It emphasizes problem solving methods proof techniques and mathematical reasoning essential for algorithm design and analysis The course also explores applications in data structures cryptography network modeling and digital systems It provides a strong theoretical foundation for advanced studies in computer science information technology and related fields *Applications of Artificial Intelligence in COVID-19* Sachi Nandan Mohanty,Shailendra K. Saxena,Suneeta Satpathy,Jyotir Moy Chatterjee,2021-09-29 The book examines the role of artificial intelligence during the COVID 19 pandemic including its application in i early warnings and alerts ii tracking and prediction iii data dashboards iv diagnosis and prognosis v treatments and cures and vi social control It explores the use of artificial intelligence in the context of population screening and assessing infection risks and presents mathematical models for epidemic prediction of COVID 19 Furthermore the book discusses artificial intelligence mediated diagnosis and how machine learning can help in the development of drugs to treat the disease Lastly it analyzes various artificial intelligence based models to improve the critical care of COVID 19 patients

Cloud Computing for Optimization: Foundations, Applications, and Challenges Bhabani Shankar Prasad Mishra,Himansu Das,Satchidananda Dehuri,Alok Kumar Jagadev,2018-02-26 This book discusses harnessing the real power of cloud computing in optimization problems presenting state of the art computing paradigms advances in applications and challenges concerning both the theories and applications of cloud computing in optimization with a focus on diverse fields like the Internet of Things fog assisted cloud computing and big data In real life many problems ranging from social science to engineering sciences can be identified as complex optimization problems Very often these are intractable and as a result researchers from industry as well as the academic community are concentrating their efforts on developing methods of addressing them Further the cloud computing paradigm plays a vital role in many areas of interest like resource allocation scheduling energy management virtualization and security and these areas are intertwined with many optimization problems Using illustrations and figures this book offers students and researchers a clear overview of the concepts and practices of cloud computing and its use in numerous complex optimization problems *Foundations of Optimization* Osman Güler,2010-08-03 This book covers the fundamental principles of optimization in finite dimensions It develops the necessary

material in multivariable calculus both with coordinates and coordinate free so recent developments such as semidefinite programming can be dealt with

Histopathological Image Analysis in Medical Decision Making Dey, Nilanjan, Ashour, Amira S., Kalia, Harihar, Goswami, R.T., Das, Himansu, 2018-09-21 Medical imaging technologies play a significant role in visualization and interpretation methods in medical diagnosis and practice using decision making pattern classification diagnosis and learning Progressions in the field of medical imaging lead to interdisciplinary discovery in microscopic image processing and computer assisted diagnosis systems and aids physicians in the diagnosis and early detection of diseases Histopathological Image Analysis in Medical Decision Making provides emerging research exploring the theoretical and practical applications of image technologies and feature extraction procedures within the medical field Featuring coverage on a broad range of topics such as image classification digital image analysis and prediction methods this book is ideally designed for medical professionals system engineers medical students researchers and medical practitioners seeking current research on problem oriented processing techniques in imaging technologies

Journal of the American Statistical Association, 2005 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

Introduction to Nonlinear Optimization Amir Beck, 2023-06-29 Built on the framework of the successful first edition this book serves as a modern introduction to the field of optimization The author's objective is to provide the foundations of theory and algorithms of nonlinear optimization as well as to present a variety of applications from diverse areas of applied sciences Introduction to Nonlinear Optimization gradually yet rigorously builds connections between theory algorithms applications and actual implementation The book contains several topics not typically included in optimization books such as optimality conditions in sparsity constrained optimization hidden convexity and total least squares Readers will discover a wide array of applications such as circle fitting Chebyshev center the Fermat Weber problem denoising clustering total least squares and orthogonal regression These applications are studied both theoretically and algorithmically illustrating concepts such as duality Python and MATLAB programs are used to show how the theory can be implemented The extremely popular CVX toolbox MATLAB and CVXPY module Python are described and used More than 250 theoretical algorithmic and numerical exercises enhance the reader's understanding of the topics More than 70 of the exercises provide detailed solutions and many others are provided with final answers The theoretical and algorithmic topics are illustrated by Python and MATLAB examples This book is intended for graduate or advanced undergraduate students in mathematics computer science electrical engineering and potentially other engineering disciplines

Proceedings of the ASME Manufacturing Engineering Division and the ASME Textile Engineering Division --2006, 2007

The Best Books for Academic Libraries: Science, technology, and agriculture, 2002

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Foundations of Computer-Aided Process Design Michael F. Malone, James A. Trainham, Brice Carnahan, 2000 Looks at challenges for the future including the broader challenge of extending design to include creating new value for a company and a discussion of how emerging technologies particularly increased computer speeds may impact future design

Foundations of Analysis in Operations Research Joseph William Schmidt, Robert P. Davis, 1981 Mathematical foundations Linear algebra Fundamental concepts of classical optimization Classical optimization theory for constrained functions Finite calculus Operational methods Applications in operations research *Foundations of Computer-aided Chemical Process Design*, 1981

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