

SPRINGER OPTIMIZATION AND ITS APPLICATIONS

DATA MINING IN BIOMEDICINE

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Data Mining In Biomedicine Springer Optimization And Its Applications

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Data Mining in Biomedicine Panos M. Pardalos, Vladimir L. Boginski, Vazacopoulos Alkis, 2007-03-15 This volume presents an extensive collection of contributions covering aspects of the exciting and important research field of data mining techniques in biomedicine Coverage includes new approaches for the analysis of biomedical data applications of data mining techniques to real life problems in medical practice comprehensive reviews of recent trends in the field The book addresses incorporation of data mining in fundamental areas of biomedical research genomics proteomics protein characterization and neuroscience

Data Mining in Agriculture Antonio Mucherino, Petraq Papajorgji, Panos M. Pardalos, 2009-09-22 Data Mining in Agriculture represents a comprehensive effort to provide graduate students and researchers with an analytical text on data mining techniques applied to agriculture and environmental related fields This book presents both theoretical and practical insights with a focus on presenting the context of each data mining technique rather intuitively with ample concrete examples represented graphically and with algorithms written in Matlab Examples and exercises with solutions are provided at the end of each chapter to facilitate the comprehension of the material For each data mining technique described in the book variants and improvements of the basic algorithm are also given

Lectures on Global Optimization Thomas Frederick Coleman, 2009 A large number of mathematical models in many diverse areas of science and engineering have lead to the formulation of optimization problems where the best solution globally optimal is needed This book covers a small subset of important topics in global optimization with emphasis on theoretical developments and scientific applications

Three Approaches to Data Analysis Igor Chikalov, Vadim Lozin, Irina Lozina, Mikhail Moshkov, Hung Son Nguyen, Andrzej Skowron, Beata Zielosko, 2012-07-28 In this book the following three approaches to data analysis are presented Test Theory founded by Sergei V Yablonskii 1924 1998 the first publications appeared in 1955 and 1958 Rough Sets founded by Zdzisław Pawlak 1926 2006 the first publications appeared in 1981 and 1982 Logical Analysis of Data founded by Peter L Hammer 1936 2006 the first publications appeared in 1986 and 1988 These three approaches have much in common but researchers active in one of these areas often have a limited knowledge about the results and methods developed in the other two On the other hand each of the approaches shows some originality and we believe that the exchange of knowledge can stimulate further development of each of them This can lead to new theoretical results and real life applications and in particular new results based on combination of these three data analysis approaches can be expected Logical Analysis of Data founded by Peter L Hammer 1936 2006 the first publications appeared in 1986 and 1988 These three approaches have much in common but researchers active in one of these areas often have a limited knowledge about the results and methods developed in the other two On the other hand each of the approaches shows some originality and we believe that the exchange of knowledge can stimulate further development of each of them This can lead to new theoretical results and real life applications and in particular new results based on combination of these three data analysis approaches can be expected These three

approaches have much in common but researchers active in one of these areas often have a limited knowledge about the results and methods developed in the other two. On the other hand, each of the approaches shows some originality and we believe that the exchange of knowledge can stimulate further development of each of them. This can lead to new theoretical results and real life applications and in particular new results based on combination of these three data analysis approaches can be expected.

Computational Methods for Next Generation Sequencing Data Analysis Ion Mandoiu, Alexander Zelikovsky, 2016-09-12 Introduces readers to core algorithmic techniques for next generation sequencing (NGS) data analysis and discusses a wide range of computational techniques and applications. This book provides an in depth survey of some of the recent developments in NGS and discusses mathematical and computational challenges in various application areas of NGS technologies. The 18 chapters featured in this book have been authored by bioinformatics experts and represent the latest work in leading labs actively contributing to the fast growing field of NGS. The book is divided into four parts. Part I focuses on computing and experimental infrastructure for NGS analysis including chapters on cloud computing, modular pipelines for metabolic pathway reconstruction, pooling strategies for massive viral sequencing and high fidelity sequencing protocols. Part II concentrates on analysis of DNA sequencing data covering the classic scaffolding problem, detection of genomic variants including insertions and deletions and analysis of DNA methylation sequencing data. Part III is devoted to analysis of RNA seq data. This part discusses algorithms and compares software tools for transcriptome assembly along with methods for detection of alternative splicing and tools for transcriptome quantification and differential expression analysis. Part IV explores computational tools for NGS applications in microbiomics including a discussion on error correction of NGS reads from viral populations, methods for viral quasispecies reconstruction and a survey of state of the art methods and future trends in microbiome analysis.

Computational Methods for Next Generation Sequencing Data Analysis: Reviews computational techniques such as new combinatorial optimization methods, data structures, high performance computing, machine learning and inference algorithms. Discusses the mathematical and computational challenges in NGS technologies. Covers NGS error correction, de novo genome transcriptome assembly, variant detection from NGS reads and more. This text is a reference for biomedical professionals interested in expanding their knowledge of computational techniques for NGS data analysis. The book is also useful for graduate and post graduate students in bioinformatics.

EEG Signal Processing and Machine Learning Saeid Sanei, Jonathon A. Chambers, 2021-09-27 EEG Signal Processing and Machine Learning Explore cutting edge techniques at the forefront of electroencephalogram research and artificial intelligence from leading voices in the field. The newly revised Second Edition of EEG Signal Processing and Machine Learning delivers an inclusive and thorough exploration of new techniques and outcomes in electroencephalogram (EEG) research in the areas of analysis, processing and decision making about a variety of brain states, abnormalities and disorders using advanced signal processing and machine learning techniques. The book content is substantially increased upon that of the first edition and while it retains what made the first

edition so popular is composed of more than 50% new material The distinguished authors have included new material on tensors for EEG analysis and sensor fusion as well as new chapters on mental fatigue sleep seizure neurodevelopmental diseases BCI and psychiatric abnormalities In addition to including a comprehensive chapter on machine learning machine learning applications have been added to almost all the chapters Moreover multimodal brain screening such as EEG fMRI and brain connectivity have been included as two new chapters in this new edition Readers will also benefit from the inclusion of A thorough introduction to EEGs including neural activities action potentials EEG generation brain rhythms and EEG recording and measurement An exploration of brain waves including their generation recording and instrumentation abnormal EEG patterns and the effects of ageing and mental disorders A treatment of mathematical models for normal and abnormal EEGs Discussions of the fundamentals of EEG signal processing including statistical properties linear and nonlinear systems frequency domain approaches tensor factorization diffusion adaptive filtering deep neural networks and complex valued signal processing Perfect for biomedical engineers neuroscientists neurophysiologists psychiatrists engineers students and researchers in the above areas the Second Edition of EEG Signal Processing and Machine Learning will also earn a place in the libraries of undergraduate and postgraduate students studying Biomedical Engineering Neuroscience and Epileptology

Epilepsy Ivan Osorio,Hitten P. Zaveri,Mark G. Frei,Susan Arthurs,2016-04-19 Epilepsy one of the most prevalent neurological disorders affects approximately 1% greater than 60 million of the world s population In an estimated 20 million of these patients seizures are not controlled even by multiple anti seizure drugs and are extremely difficult to predict Epilepsy The Intersection of Neurosciences Biology Mathema

Decision Analytics and Optimization in Disease Prevention and Treatment Nan Kong,Shengfan Zhang,2018-02-02 A systematic review of the most current decision models and techniques for disease prevention and treatment Decision Analytics and Optimization in Disease Prevention and Treatment offers a comprehensive resource of the most current decision models and techniques for disease prevention and treatment With contributions from leading experts in the field this important resource presents information on the optimization of chronic disease prevention infectious disease control and prevention and disease treatment and treatment technology Designed to be accessible in each chapter the text presents one decision problem with the related methodology to showcase the vast applicability of operations research tools and techniques in advancing medical decision making This vital resource features the most recent and effective approaches to the quickly growing field of healthcare decision analytics which involves cost effectiveness analysis stochastic modeling and computer simulation Throughout the book the contributors discuss clinical applications of modeling and optimization techniques to assist medical decision making within complex environments Accessible and authoritative Decision Analytics and Optimization in Disease Prevention and Treatment Presents summaries of the state of the art research that has successfully utilized both decision analytics and optimization tools within healthcare operations research Highlights the optimization of chronic disease prevention infectious disease

control and prevention and disease treatment and treatment technology Includes contributions by well known experts from operations researchers to clinical researchers and from data scientists to public health administrators Offers clarification on common misunderstandings and misnomers while shedding light on new approaches in this growing area Designed for use by academics practitioners and researchers Decision Analytics and Optimization in Disease Prevention and Treatment offers a comprehensive resource for accessing the power of decision analytics and optimization tools within healthcare operations research

Making Sense of Data II Glenn J. Myatt, Wayne P. Johnson, 2009-02-03 A hands on guide to making valuable decisions from data using advanced data mining methods and techniques This second installment in the Making Sense of Data series continues to explore a diverse range of commonly used approaches to making and communicating decisions from data Delving into more technical topics this book equips readers with advanced data mining methods that are needed to successfully translate raw data into smart decisions across various fields of research including business engineering finance and the social sciences Following a comprehensive introduction that details how to define a problem perform an analysis and deploy the results Making Sense of Data II addresses the following key techniques for advanced data analysis Data Visualization reviews principles and methods for understanding and communicating data through the use of visualization including single variables the relationship between two or more variables groupings in data and dynamic approaches to interacting with data through graphical user interfaces Clustering outlines common approaches to clustering data sets and provides detailed explanations of methods for determining the distance between observations and procedures for clustering observations Agglomerative hierarchical clustering partitioned based clustering and fuzzy clustering are also discussed Predictive Analytics presents a discussion on how to build and assess models along with a series of predictive analytics that can be used in a variety of situations including principal component analysis multiple linear regression discriminate analysis logistic regression and Na ve Bayes Applications demonstrates the current uses of data mining across a wide range of industries and features case studies that illustrate the related applications in real world scenarios Each method is discussed within the context of a data mining process including defining the problem and deploying the results and readers are provided with guidance on when and how each method should be used The related Web site for the series www.makingsenseofdata.com provides a hands on data analysis and data mining experience Readers wishing to gain more practical experience will benefit from the tutorial section of the book in conjunction with the Traceis™ software which is freely available online With its comprehensive collection of advanced data mining methods coupled with tutorials for applications in a range of fields Making Sense of Data II is an indispensable book for courses on data analysis and data mining at the upper undergraduate and graduate levels It also serves as a valuable reference for researchers and professionals who are interested in learning how to accomplish effective decision making from data and understanding if data analysis and data mining methods could help their organization

Next Generation Healthcare Systems Using Soft

Computing Techniques Rekh Ram Janghel, Rohit Raja, Korhan Cengiz, Hiral Raja, 2022-09-21 This book presents soft computing techniques and applications used in healthcare systems along with the latest advancements. Written as a guide for assessing the roles that these techniques play, the book also highlights implementation strategies, lists problem solving solutions, and paves the way for future research endeavors in smart and next generation healthcare systems. This book provides applications of soft computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles that various techniques such as machine learning, fuzzy logic, and statistical mathematics play in the advancements of smart healthcare systems. The book presents the basics as well as the advanced concepts to help beginners as well as industry professionals get up to speed on the latest developments in healthcare systems. The book examines descriptive, predictive, and social network techniques and discusses analytical tools and the important role they play in finding solutions to problems in healthcare systems. A framework of robust and novel healthcare techniques is highlighted, as well as implementation strategies and a setup for future research endeavors. Healthcare Systems Using Soft Computing Techniques is a valuable resource for researchers and postgraduate students in healthcare systems engineering, computer science, information technology, and applied mathematics. The book introduces beginners to and at the same time brings industry professionals up to speed with the important role soft computing techniques play in smart healthcare systems.

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