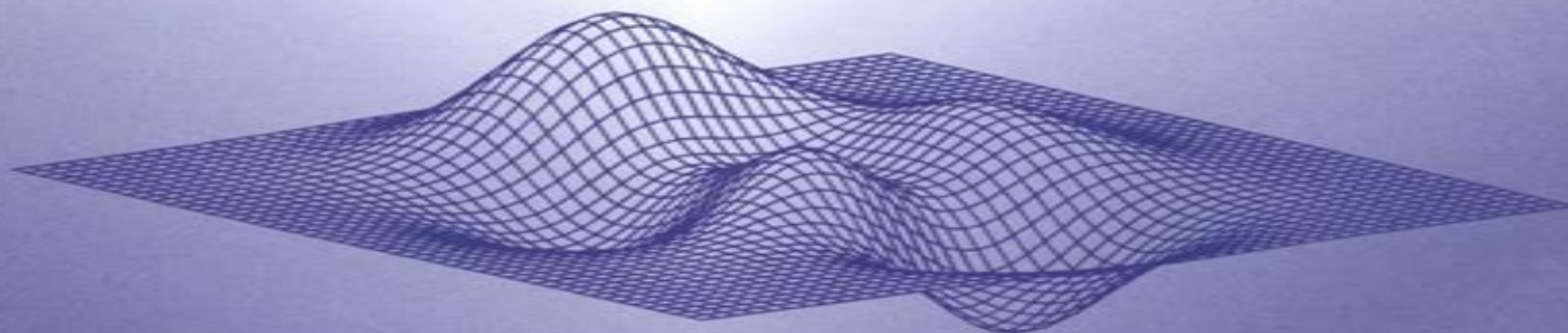


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Mathematical Classification and Clustering

Boris Mirkin

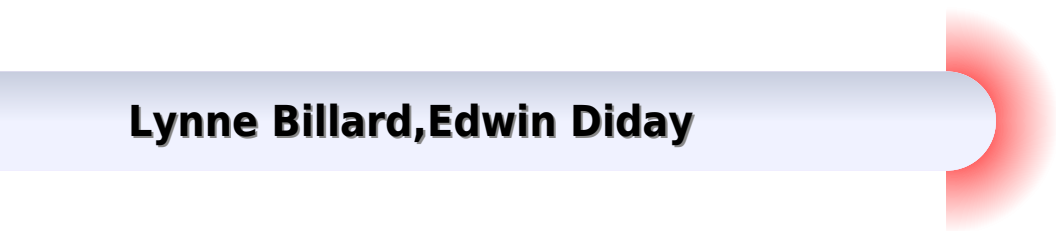


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Lynne Billard, Edwin Diday



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Mathematical Classification and Clustering Boris Mirkin, 2013-12-01 I am very happy to have this opportunity to present the work of Boris Mirkin a distinguished Russian scholar in the areas of data analysis and decision making methodologies The monograph is devoted entirely to clustering a discipline dispersed through many theoretical and application areas from mathematical statistics and combinatorial optimization to biology sociology and organizational structures It compiles an immense amount of research done to date including many original Russian developments never presented to the international community before for instance cluster by cluster versions of the K Means method in Chapter 4 or uniform partitioning in Chapter 5 The author's approach approximation clustering allows him both to systematize a great part of the discipline and to develop many innovative methods in the framework of optimization problems The optimization methods considered are proved to be meaningful in the contexts of data analysis and clustering The material presented in this book is quite interesting and stimulating in paradigms clustering and optimization On the other hand it has a substantial application appeal The book will be useful both to specialists and students in the fields of data analysis and clustering as well as in biology psychology economics marketing research artificial intelligence and other scientific disciplines Panos Pardalos Series Editor **Classification, Clustering, and Data Analysis** Krzysztof Jajuga, Andrzej Sokolowski, Hans-Hermann

Bock, 2012-12-06 The present volume contains a selection of papers presented at the Eighth Conference of the International Federation of Classification Societies IFCS which was held in Cracow Poland July 16 19 2002 All originally submitted papers were subject to a reviewing process by two independent referees a procedure which resulted in the selection of the 53 articles presented in this volume These articles relate to theoretical investigations as well as to practical applications and cover a wide range of topics in the broad domain of classification data analysis and related methods If we try to classify the wealth of problems methods and approaches into some representative partially overlapping groups we find in particular the following areas Clustering Cluster validation Discrimination Multivariate data analysis Statistical methods Symbolic data analysis Consensus trees and phylogeny Regression trees Neural networks and genetic algorithms Applications in economics medicine biology and psychology Given the international orientation of IFCS conferences and the leading role of IFCS in the scientific world of classification clustering and data analysis this volume collects a representative selection of current research and modern applications in this field and serves as an up to date information source for statisticians data analysts data mining specialists and computer scientists **Clustering And Classification** Phipps Arabie, Larry Hubert, Geert De

Soete, 1996-01-29 At a moderately advanced level this book seeks to cover the areas of clustering and related methods of data analysis where major advances are being made Topics include hierarchical clustering variable selection and weighting additive trees and other network models relevance of neural network models to clustering the role of computational complexity in cluster analysis latent class approaches to cluster analysis theory and method with applications of a

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Classification and Clustering documents the proceedings of the Advanced Seminar on Classification and Clustering held in Madison Wisconsin on May 3 5 1976 This compilation discusses the relationship between multidimensional scaling and clustering distribution problems in clustering and botryology of botryology The graph theoretic techniques for cluster analysis algorithms data dependent clustering techniques and linguistic approach to pattern recognition are also elaborated This text likewise covers the discriminant analysis when scale contamination is present in the initial sample and statistical basis of computerized diagnosis using the electrocardiogram Other topics include the simple histogram method for nonparametric classification and optimal smoothing of density estimates This book is intended for mathematicians biological scientists social scientists computer scientists statisticians and engineers interested in classification and clustering

Handbook of Cluster Analysis Christian Hennig, Marina Meila, Fionn Murtagh, Roberto Rocci, 2015-12-16 Handbook of Cluster Analysis provides a comprehensive and unified account of the main research developments in cluster analysis Written by active distinguished researchers in this area the book helps readers make informed choices of the most suitable clustering approach for their problem and make better use of existing cluster analysis tools The *Mathematics of Data Science*

Mathematics of Data Science Daniela Calvetti, Erkki Somersalo, 2020-11-20 This textbook provides a solid mathematical basis for understanding popular data science algorithms for clustering and classification and shows that an in depth understanding of the mathematics powering these algorithms gives insight into the underlying data It presents a step by step derivation of these algorithms outlining their implementation from scratch in a computationally sound way Mathematics of Data Science A Computational Approach to Clustering and Classification proposes different ways of visualizing high dimensional data to unveil hidden internal structures and nearly every chapter includes graphical explanations and computed examples using publicly available data sets to highlight similarities and differences among the algorithms This self contained book is geared toward advanced undergraduate and beginning graduate students in the mathematical sciences engineering and computer science and can be used as the main text in a semester course Researchers in any application area where data science methods are used will also find the book of interest No advanced mathematical or statistical background is assumed **Mathematical Entity**

Linking Methods and Applications Philipp Scharpf, 2025-05-09 This research book explores the adaptation of traditional Entity Linking techniques to Mathematical Entity Linking MathEL for STEM disciplines addressing the limitations of current Information Retrieval methods in handling mathematical expressions By developing and evaluating novel MathEL approaches using AI Machine Learning and the Wikidata Knowledge Graph significant progress is achieved in areas such as Formula Concept recognition semantic formula search mathematical question answering physics exam question generation and STEM

document classification The study also introduces a suite of open source Wikimedia MathEL tools including AnnoMathTeX MathQA and PhysWikiQuiz designed to advance Mathematical Information Retrieval and support innovative applications in academic and educational contexts Classification, Clustering, and Data Mining Applications International Federation of Classification Societies. Conference, 2004-06-09 Modern data analysis stands at the interface of statistics computer science and discrete mathematics This volume describes new methods in this area with special emphasis on classification and cluster analysis Those methods are applied to problems in information retrieval phylogeny medical diagnosis microarrays and other active research areas **Data Clustering: Theory, Algorithms, and Applications, Second Edition** Guojun Gan, Chaoqun Ma, Jianhong Wu, 2020-11-10 Data clustering also known as cluster analysis is an unsupervised process that divides a set of objects into homogeneous groups Since the publication of the first edition of this monograph in 2007 development in the area has exploded especially in clustering algorithms for big data and open source software for cluster analysis This second edition reflects these new developments covers the basics of data clustering includes a list of popular clustering algorithms and provides program code that helps users implement clustering algorithms Data Clustering Theory Algorithms and Applications Second Edition will be of interest to researchers practitioners and data scientists as well as undergraduate and graduate students Mathematical Hierarchies and Biology Boris Grigor'evich Mirkin, 1997-01-01 Twenty four articles from the November 1996 workshop investigate the reconstruction of trees or ranking hierarchies from dissimilarity or entity to character data the use of hierarchies for modeling evolution and other processes and the combining of gene trees Included are mathematical treatments of hierarchies in the frameworks of set systems linear subspaces graph objects and tree metrics in their analyses Such current applications as learning robots intron evolution and the development of language are addressed Annotation copyrighted by Book News Inc Portland OR **Ordinal And Relational Clustering (With Cd-rom)** Melvin F Janowitz, 2010-05-07 Most modern textbooks on cluster analysis are written from the standpoint of computer science which give the background description and implementation of computer algorithms This book proclaims several firsts the first to present a broad mathematical treatment of the subject the first that illustrates dissimilarities taking values in a poset and the first to notice the connection with formal concept analysis which is a powerful tool for investigating hidden structures in large data sets This book presents the subject from a mathematical viewpoint with careful definitions All clearly stated axioms are illustrated with concrete examples New ideas are introduced informally first and then in a careful systematic manner Much of the material has not previously appeared in the literature It is to be hoped that the book holds promising directive to launch a new research area that is based on graph theory as well as partially ordered sets It also suggests the cluster algorithms that can be used for practical applications The emphasis will be largely on ordinal data and ordinal cluster methods A Primer in Combinatorics Alexander Kheyfits, 2021-09-07 The second edition of this well received textbook is devoted to Combinatorics and Graph Theory which are cornerstones of Discrete Mathematics Every

section begins with simple model problems Following their detailed analysis the reader is led through the derivation of definitions concepts and methods for solving typical problems Theorems then are formulated proved and illustrated by more problems of increasing difficulty

Core Concepts in Data Analysis: Summarization, Correlation and Visualization Boris Mirkin, 2011-04-05 Core Concepts in Data Analysis Summarization Correlation and Visualization provides in depth descriptions of those data analysis approaches that either summarize data principal component analysis and clustering including hierarchical and network clustering or correlate different aspects of data decision trees linear rules neuron networks and Bayes rule Boris Mirkin takes an unconventional approach and introduces the concept of multivariate data summarization as a counterpart to conventional machine learning prediction schemes utilizing techniques from statistics data analysis data mining machine learning computational intelligence and information retrieval Innovations following from his in depth analysis of the models underlying summarization techniques are introduced and applied to challenging issues such as the number of clusters mixed scale data standardization interpretation of the solutions as well as relations between seemingly unrelated concepts goodness of fit functions for classification trees and data standardization spectral clustering and additive clustering correlation and visualization of contingency data The mathematical detail is encapsulated in the so called formulation parts whereas most material is delivered through presentation parts that explain the methods by applying them to small real world data sets concise computation parts inform of the algorithmic and coding issues Four layers of active learning and self study exercises are provided worked examples case studies projects and questions

Handbook of combinatorial optimization Dingzhu Du, Panos M. Pardalos, 1998-12-15 This is the second of a multi volume set The various volumes deal with several algorithmic approaches for discrete problems as well as with many combinatorial problems The emphasis is on late 1990s developments Each chapter is essentially expository in nature but scholarly in its treatment

Cluster Analysis Brian S. Everitt, Sabine Landau, Morven Leese, 2001 Cluster analysis comprises a range of methods of classifying multivariate data into subgroups and these techniques are widely applicable This new edition incorporates material covering developing areas such as Bayesian statistics neural networks

Intelligent Tools for Building a Scientific Information Platform Robert Bembenik, Lukasz Skonieczny, Henryk Rybinski, Marzena Kryszkiewicz, Marek Niezgodka, 2013-01-12 This book is a selection of results obtained within two years of research performed under SYNAT a nation wide scientific project aiming at creating an infrastructure for scientific content storage and sharing for academia education and open knowledge society in Poland The selection refers to the research in artificial intelligence knowledge discovery and data mining information retrieval and natural language processing addressing the problems of implementing intelligent tools for building a scientific information platform This book is a continuation and extension of the ideas presented in Intelligent Tools for Building a Scientific Information Platform published as volume 390 in the same series in 2012 It is based on the SYNAT 2012 Workshop held in Warsaw The papers included in this volume present an overview and insight into

information retrieval repository systems text processing ontology based systems text mining multimedia data processing and advanced software engineering Applied Combinatorics, Third Edition Fred S. Roberts, Barry Tesman, 2024-06-03 The third edition of this popular text presents the tools of combinatorics for a first undergraduate course After introducing fundamental counting rules tools of graph theory and relations the focus is on three basic problems of combinatorics counting existence and optimization problems Clustering Methodology for Symbolic Data Lynne Billard, Edwin Diday, 2019-08-20 Covers everything readers need to know about clustering methodology for symbolic data including new methods and headings while providing a focus on multi valued list data interval data and histogram data This book presents all of the latest developments in the field of clustering methodology for symbolic data paying special attention to the classification methodology for multi valued list interval valued and histogram valued data methodology along with numerous worked examples The book also offers an expansive discussion of data management techniques showing how to manage the large complex dataset into more manageable datasets ready for analyses Filled with examples tables figures and case studies Clustering Methodology for Symbolic Data begins by offering chapters on data management distance measures general clustering techniques partitioning divisive clustering and agglomerative and pyramid clustering Provides new classification methodologies for histogram valued data reaching across many fields in data science Demonstrates how to manage a large complex dataset into manageable datasets ready for analysis Features very large contemporary datasets such as multi valued list data interval valued data and histogram valued data Considers classification models by dynamical clustering Features a supporting website hosting relevant data sets Clustering Methodology for Symbolic Data will appeal to practitioners of symbolic data analysis such as statisticians and economists within the public sectors It will also be of interest to postgraduate students of and researchers within web mining text mining and bioengineering Failure Characteristics Analysis and Fault Diagnosis for Liquid Rocket Engines Wei Zhang, 2016-05-25 This book concentrates on the subject of health monitoring technology of Liquid Rocket Engine LRE including its failure analysis fault diagnosis and fault prediction Since no similar issue has been published the failure pattern and mechanism analysis of the LRE from the system stage are of particular interest to the readers Furthermore application cases used to validate the efficacy of the fault diagnosis and prediction methods of the LRE are different from the others The readers can learn the system stage modeling analyzing and testing methods of the LRE system as well as corresponding fault diagnosis and prediction methods This book will benefit researchers and students who are pursuing aerospace technology fault detection diagnostics and corresponding applications Advances in K-means Clustering Junjie Wu, 2012-07-09 Nearly everyone knows K means algorithm in the fields of data mining and business intelligence But the ever emerging data with extremely complicated characteristics bring new challenges to this old algorithm This book addresses these challenges and makes novel contributions in establishing theoretical frameworks for K means distances and K means based consensus clustering identifying the dangerous uniform

effect and zero value dilemma of K means adapting right measures for cluster validity and integrating K means with SVMs for rare class analysis This book not only enriches the clustering and optimization theories but also provides good guidance for the practical use of K means especially for important tasks such as network intrusion detection and credit fraud prediction The thesis on which this book is based has won the 2010 National Excellent Doctoral Dissertation Award the highest honor for not more than 100 PhD theses per year in China

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