

Pattern Discovery in Biomolecular Data

TOOLS, TECHNIQUES, AND APPLICATIONS



EDITED BY
JASON T. L. WANG
BRUCE A. SHAPIRO
DENNIS SHASHA

Pattern Discovery In Biomolecular Data Tools Techniques And Applications

James Andrew Storer, Martin Cohn



Pattern Discovery In Biomolecular Data Tools Techniques And Applications:

Pattern Discovery in Biomolecular Data Jason T. L. Wang, Bruce A. Shapiro, Dennis Shasha, 1999-10-28 Finding patterns in biomolecular data particularly in DNA and RNA is at the center of modern biological research. These data are complex and growing rapidly so the search for patterns requires increasingly sophisticated computer methods. *Pattern Discovery in Biomolecular Data* provides a clear up to date summary of the principal techniques. Each chapter is self contained and the techniques are drawn from many fields including graph theory, information theory, statistics, genetic algorithms, computer visualization and vision. Since pattern searches often benefit from multiple approaches, the book presents methods in their purest form so that readers can best choose the method or combination that fits their needs. The chapters focus on finding patterns in DNA, RNA and protein sequences, finding patterns in 2D and 3D structures and choosing system components. This volume will be invaluable for all workers in genomics and genetic analysis and others whose research requires biocomputing.

Data Mining Patterns: New Methods and Applications Poncelet, Pascal, Massegia, Florent, Teisseire, Maguelonne, 2007-08-31 This book provides an overall view of recent solutions for mining and explores new patterns offering theoretical frameworks and presenting challenges and possible solutions concerning pattern extractions, emphasizing research techniques and real world applications. It portrays research applications in data models, methodologies for mining patterns, multi relational and multidimensional pattern mining, fuzzy data mining, data streaming and incremental mining. Provided by publisher.

Computational Intelligence Methods for Bioinformatics and Biostatistics Riccardo Rizzo, Paulo J.G. Lisboa, 2011-07-18 This book constitutes the thoroughly refereed post proceedings of the 7th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB 2010 held in Palermo, Italy in September 2010. The 19 papers presented together with 2 keynote speeches and 1 tutorial were carefully reviewed and selected from 24 submissions. The papers are organized in topical sections on sequence analysis, promoter analysis and identification of transcription factor binding sites, methods for the unsupervised analysis, validation and visualization of structures discovered in bio molecular data, prediction of secondary and tertiary protein structures, gene expression data analysis, bio medical text mining and imaging methods for diagnosis and prognosis, mathematical modelling and simulation of biological systems and intelligent clinical decision support systems.

Nonlinear Dynamical Systems Analysis for the Behavioral Sciences Using Real Data Stephen J. Guastello, Robert A.M. Gregson, 2016-04-19 Although its roots can be traced to the 19th century, progress in the study of nonlinear dynamical systems has taken off in the last 30 years. While pertinent source material exists, it is strewn about the literature in mathematics, physics, biology, economics and psychology at varying levels of accessibility. A compendium research methods reflect.

Handbook of Massive Data Sets James Abello, Panos M. Pardalos, Mauricio G.C. Resende, 2013-12-21 The proliferation of massive data sets brings with it a series of special computational challenges. This data avalanche arises in a wide range of scientific and commercial applications. With

advances in computer and information technologies many of these challenges are beginning to be addressed by diverse interdisciplinary groups that include computer scientists mathematicians statisticians and engineers working in close cooperation with application domain experts High profile applications include astrophysics bio technology demographics finance geographical information systems government medicine telecommunications the environment and the internet John R Tucker of the Board on Mathematical Sciences has stated My interest in this problem Massive Data Sets is that I see it as the most important cross cutting problem for the mathematical sciences in practical problem solving for the next decade because it is so pervasive The Handbook of Massive Data Sets is comprised of articles written by experts on selected topics that deal with some major aspect of massive data sets It contains chapters on information retrieval both in the internet and in the traditional sense web crawlers massive graphs string processing data compression clustering methods wavelets optimization external memory algorithms and data structures the US national cluster project high performance computing data warehouses data cubes semi structured data data squashing data quality billing in the large fraud detection and data processing in astrophysics air pollution biomolecular data earth observation and the environment General Theory of Information Transfer and Combinatorics Rudolf Ahlswede, Lars Bäumer, Ning Cai, Harout Aydinian, Vladimir Blinovskiy, Christian Deppe, Haik Mashurian, 2006-12-08 This book collects 63 revised full papers contributed to a research project on the General Theory of Information Transfer and Combinatorics that was hosted from 2001-2004 at the Center for Interdisciplinary Research ZIF of Bielefeld University and several incorporated meetings Topics covered include probabilistic models cryptology pseudo random sequences quantum models pattern discovery language evolution and network coding

Frequent Pattern Mining Charu C. Aggarwal, Jiawei Han, 2014-08-29 This comprehensive reference consists of 18 chapters from prominent researchers in the field Each chapter is self contained and synthesizes one aspect of frequent pattern mining An emphasis is placed on simplifying the content so that students and practitioners can benefit from the book Each chapter contains a survey describing key research on the topic a case study and future directions Key topics include Pattern Growth Methods Frequent Pattern Mining in Data Streams Mining Graph Patterns Big Data Frequent Pattern Mining Algorithms for Data Clustering and more Advanced level students in computer science researchers and practitioners from industry will find this book an invaluable reference

Machine Learning for Intelligent Systems Dr. R. Vasanthi, Divesh Singh Sai, Dr. Gayatri Hegde, Dr. T. Aditya Sai Srinivas , 2025-09-27 Machine Learning for Intelligent Systems focuses on the design and development of systems that can learn adapt and make intelligent decisions autonomously It integrates principles of machine learning artificial intelligence and data analytics to build systems capable of perceiving their environment and improving performance through experience The subject covers supervised and unsupervised learning algorithms neural networks reinforcement learning and deep learning techniques Applications include robotics autonomous vehicles smart devices and intelligent control systems The course emphasizes both theoretical understanding and practical implementation

of intelligent data driven systems that can operate effectively in dynamic and complex environments *DCC 2004, Data Compression Conference* James Andrew Storer, Martin Cohn, 2004 DCC 2004 is an international conference for current research and discoveries on data compression for text images video audio and related areas The conference delves into topics such as lossless and lossy compression algorithms source and multiple description coding quantization theory vector quantization encoding with wavelets bi level image compression applications of compression to data mining standards and much more **Dr. Dobb's Journal of Software Tools for the Professional Programmer**, 2001 Proceedings of the Twenty-First ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems, 2002 **Dr. Dobb's Journal**, 2001 Proceedings of the IEEE Engineering in Medicine and Biology Society, Region 8 International Conference, 2003 **Proceedings**, 2002 KDD, 2000 *Proceedings, 1999 International Conference on Information Intelligence and Systems* IEEE Computer Society, 1999 Annotation Presents 96 articles from the 1999 conference exact date not noted on intelligence in technological systems The papers were drawn from four symposiums focusing respectively on intelligence in neural and biological systems intelligence in automation and robotics image speech and natural language understanding and autonomous intelligent agents Some representative topics include shape recognition and vision based robot control intelligent wheelchairs based on the integration of human and environment observation velocity estimation using semi local features and a self training agent for intelligent information discovery Annotation copyrighted by Book News Inc Portland OR *Against the Grain*, 2000 **IBM Systems Journal** International Business Machines Corporation, 2001 American Book Publishing Record, 1999 **Proceedings of the Pakistan Academy of Sciences** Pakistan Academy of Sciences, 2003

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