



DIMACS

Series in Discrete Mathematics
and Theoretical Computer Science

Volume 37

Mathematical Hierarchies and Biology

DIMACS Workshop
November 13-15, 1996

Boris Mirkin
F. R. McMorris
Fred S. Roberts
Andrey Rehetsky
Editors



American Mathematical Society

Mathematical Hierarchies And Biology Dimacs Workshop November 13 15 1996

Clare E. Sansom, Robert M. Horton



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Mathematical Hierarchies and Biology Boris Grigor'evich Mirkin, 1997 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

The Internet for Molecular Biologists Clare E. Sansom, Robert M. Horton, 2004-01-29 The last few decades of the twentieth century will be remembered for two technological revolutions that have already had a profound effect on millions of people's lives Thanks to communication technologies and particularly the Internet we now take immediate access to enormous quantities of information for granted And thanks to the new biology building on the genome projects some scientists are predicting that cures for the majority of known diseases could be readily available within two generations These two revolutions are inextricably linked molecular biology depends on the ready availability of data and that needs computers and the Internet There are some surprising parallels between developments in the two technologies For example the publicly available gene sequence databases EMBL and GenBank are doubling in size approximately every eighteen months According to Moore's Law which has held since the invention of the silicon chip eighteen months is also the time frame in which computer power is expected to double This book aims to help the practitioners of the second revolution molecular biologists who are more at home at a laboratory bench than in front of a computer keyboard to use the technology of the first the Internet more effectively The Internet For Molecular Biologists A Practical Approach provides a broad introduction to using Internet based computing resources to support research in molecular biology After surveying the core databases and other online resources the focus shifts to tools and techniques for exploiting and authoring Internet distributed information Later chapters provide detailed examples of how technologies such as molecular visualisation VRML and XSLT can be applied to biological problems

Mathematical Hierarchies and Biology Boris Grigor'evich Mirkin, 1997 The mathematical approach to the study of hierarchies presents the theoretical basis for many important areas of current scientific investigation Biology has benefited from this research and has also stimulated the mathematical study of hierarchies This collection presents papers devoted to theoretical algorithmical and application issues related to 1 reconstructing hierarchies trees or ranking from dissimilarity or entity to character data 2 using hierarchies for modeling evolution and other processes and 3 combining gene trees The papers in this volume provide a contemporary

Data Analysis and Optimization Boris Goldengorin, Sergei Kuznetsov, 2023-09-23 This book presents the state of the art in the emerging field of data science and includes models for layered security with applications in the protection of sites such as large gathering places through high stake decision making tasks Such tasks include cancer diagnostics self driving cars and

others where wrong decisions can possibly have catastrophic consequences. Additionally, this book provides readers with automated methods to analyze patterns and models for various types of data with applications ranging from scientific discovery to business intelligence and analytics. The book primarily includes exploratory data analysis, pattern mining, clustering, and classification supported by real-life case studies. The statistical section of this book explores the impact of data mining and modeling on the predictability assessment of time series. Further, new notions of mean values based on ideas of multi-criteria optimization are compared with their conventional definitions, leading to new algorithmic approaches to the calculation of the suggested new means. The style of the written chapters and the provision of a broad yet in-depth overview of data mining, integrating novel concepts from machine learning and statistics, make the book accessible to upper-level undergraduate and graduate students in data mining courses. Students and professionals specializing in computer and management science data mining for high-dimensional data, complex graphs, and networks will benefit from the cutting-edge ideas and practically motivated case studies in this book. Mathematical Reviews, 2008 **Causal Architecture,**

Complexity and Self-organization in the Time Series and Cellular Automata Cosma Rohilla Shalizi, 2001

Applications of Graph Theory to Chromosome Rearrangements and Phylogenetics Dan Levy, 2005

Bibliography of Agriculture, 1998 **American Book Publishing Record**, 1998 *Forthcoming Books* Rose

Arny, 1997 *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004 Graph Data Management George Fletcher, Jan Hidders, Josep Lluís Larriba-Pey, 2018-10-31. This book presents a comprehensive overview of fundamental issues and recent advances in graph data management. Its aim is to provide beginning researchers in the area of graph data management or in fields that require graph data management an overview of the latest developments in this area both in applied and in fundamental subdomains. The topics covered range from a general introduction to graph data management to more specialized topics like graph visualization, flexible queries of graph data, parallel processing, and benchmarking. The book will help researchers put their work in perspective and show them which types of tools, techniques, and technologies are available, which ones could best suit their needs, and where there are still open issues and future research directions. The chapters are contributed by leading experts in the relevant areas, presenting a coherent overview of the state of the art in the field. Readers should have a basic knowledge of data management techniques as they are taught in computer science MSc programs.

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