Maricel Kann Fran Lewitter Translational Bioinformatics

Genetic Analysis of Complex DiseaseBiomedical InformaticsDistributed and Sequential Algorithms for BioinformaticsArts & Humanities Citation Index William K. Scott Edward H. Shortliffe Kayhan Erciyes
Genetic Analysis of Complex Disease Biomedical Informatics Distributed and Sequential Algorithms for Bioinformatics Arts & Humanities Citation Index *William K. Scott Edward H. Shortliffe Kayhan Erciyes*

genetic analysis of complex diseases an up to date and complete treatment of the strategies designs and analysis methods for studying complex genetic disease in human beings in the newly revised third edition of genetic analysis of complex diseases a team of distinguished geneticists delivers a comprehensive introduction to the most relevant strategies designs and methods of analysis for the study of complex genetic disease in humans the book focuses on concepts and designs thereby offering readers a broad understanding of common problems and solutions in the field based on successful applications in the design and execution of genetic studies this edited volume contains contributions from some of the leading voices in the area and presents new chapters on high throughput genomic sequencing copy number variant analysis and epigenetic studies providing clear and easily referenced overviews of the considerations involved in genetic analysis of complex human genetic disease including sampling design data collection linkage and association studies and social legal and ethical issues genetic analysis of complex diseases also provides a thorough introduction to study design for the identification of genes in complex traits comprehensive explorations of basic concepts in genetics disease phenotype definition and the determination of the genetic components of disease practical discussions of modern bioinformatics tools for analysis of genetic data reflecting on responsible conduct of research in genetic studies as well as linkage analysis and data management new expanded chapter on complex genetic interactions this latest edition of genetic analysis of complex diseases is a must read resource for molecular biologists human geneticists genetic epidemiologists and pharmaceutical researchers it is also invaluable for graduate students taking courses in statistical genetics or genetic epidemiology

this 5th edition of this essential textbook continues to meet the growing demand of practitioners researchers educators and students for a comprehensive introduction to key topics in biomedical informatics and the underlying scientific issues that sit at the intersection of biomedical

science patient care public health and information technology it emphasizing the conceptual basis of the field rather than technical details it provides the tools for study required for readers to comprehend assess and utilize biomedical informatics and health it it focuses on practical examples a guide to additional literature chapter summaries and a comprehensive glossary with concise definitions of recurring terms for self study or classroom use biomedical informatics computer applications in health care and biomedicine reflects the remarkable changes in both computing and health care that continue to occur and the exploding interest in the role that it must play in care coordination and the melding of genomics with innovations in clinical practice and treatment new and heavily revised chapters have been introduced on human computer interaction mhealth personal health informatics and precision medicine while the structure of the other chapters has undergone extensive revisions to reflect the developments in the area the organization and philosophy remain unchanged focusing on the science of information and knowledge management and the role of computers and communications in modern biomedical research health and health care

this unique textbook reference presents unified coverage of bioinformatics topics relating to both biological sequences and biological networks providing an in depth analysis of cutting edge distributed algorithms as well as of relevant sequential algorithms in addition to introducing the latest algorithms in this area more than fifteen new distributed algorithms are also proposed topics and features reviews a range of open challenges in biological sequences and networks describes in detail both sequential and parallel distributed algorithms for each problem suggests approaches for distributed algorithms as possible extensions to sequential algorithms when the distributed algorithms for the topic are scarce proposes a number of new distributed algorithms in each chapter to serve as potential starting points for further research concludes each chapter with self test exercises a summary of the key points a comparison of the algorithms described and a literature review

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