APPLICATIONS OF FUZZY LOGIC IN BIOINFORMATICS

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Applications Of Fuzzy Logic In Bioinformatics Dong Xu, James M Keller, Rajkumar Bondugula, Mihail Popescu, 2008-08-11 Many biological systems and objects are intrinsically fuzzy as their properties and behaviors contain randomness or uncertainty In addition it has been shown that exact or optimal methods have significant limitation in many bioinformatics problems Fuzzy set theory and fuzzy logic are ideal to describe some biological systems objects and provide good tools for some bioinformatics problems This book comprehensively addresses several important bioinformatics topics using fuzzy concepts and approaches including measurement of ontological similarity protein structure prediction analysis and microarray data analysis It also reviews other bioinformatics applications using fuzzy techniques a in Bioinformatics and Computational Biology Yaochu Jin, Lipo Wang, 2008-12-28 Biological systems are inherently stochastic and uncertain Thus research in bioinformatics biomedical engineering and computational biology has to deal with a large amount of uncertainties Fuzzy logic has shown to be a powerful tool in capturing different uncertainties in engineering systems In recent years fuzzy logic based modeling and analysis approaches are also becoming popular in analyzing biological data and modeling biological systems Numerous research and application results have been reported that demonstrated the effectiveness of fuzzy logic in solving a wide range of biological problems found in bioinformatics biomedical engineering and computational biology Contributed by leading experts world wide this edited book contains 16 chapters presenting representative research results on the application of fuzzy systems to genome sequence assembly gene expression analysis promoter analysis cis regulation logic analysis and synthesis reconstruction of genetic and cellular networks as well as biomedical problems such as medical image processing electrocardiogram data classification and anesthesia monitoring and control This volume is a valuable reference for researchers practitioners as well as graduate students working in the field of bioinformatics biomedical engineering and computational biology The Applications of Bioinformatics in Cancer Detection Asad Umar, Izet Kapetanovic, Javed Khan (M.D.), 2004 The state of the science of bioinformatics that is application of computer processes to solving biological problems and its potential for assisting early cancer detection risk assessment and risk reduction form the focus of this volume KI 2009: Advances in Artificial Intelligence Bärbel Mertsching, Marcus Hund, Zaheer Aziz, 2009-09-18 This book constitutes the thoroughly refereed proceedings of the 32nd Annual German Conference on Artificial Intelligence KI 2009 held in Paderborn Germany in September 2009 The 76 revised full papers presented together with 15 posters were carefully reviewed and selected from 126 submissions The papers are divided in topical sections on planning and scheduling vision and perception machine learning and data mining evolutionary computing natural language processing knowledge representation and reasoning cognition history and philosophical foundations AI and engineering automated reasoning spatial and temporal reasoning agents and intelligent virtual environments experience adn knowledge management and robotics Omics Applications and

Avenues Prachi Srivastava, Prekshi Garg, 2024-10-29 Dive into the rapidly evolving world of omics sciences with Omics Applications and Avenues This comprehensive guide explores the interdisciplinary realm of genomics proteomics metabolomics and beyond delving into the latest advancements and applications across diverse fields such as medicine agriculture microbial toxicology nanotechnology forensic sciences chemistry metabolome aquatic life evolution and environmental science Through insightful discussions applications and case studies readers will uncover the transformative potential of omics technologies in understanding complex biological systems unravelling disease mechanisms enhancing crop yields and mitigating environmental challenges Whether you re a seasoned researcher or a curious novice this book offers a captivating journey into the forefront of modern scientific inquiry illuminating the limitless possibilities that omics methodologies offer for shaping the future of science and society Advanced Prognostic Predictive Modelling in Healthcare Data Analytics Sudipta Roy, Lalit Mohan Goyal, Mamta Mittal, 2021-04-22 This book discusses major technical advancements and research findings in the field of prognostic modelling in healthcare image and data analysis The use of prognostic modelling as predictive models to solve complex problems of data mining and analysis in health care is the feature of this book The book examines the recent technologies and studies that reached the practical level and becoming available in preclinical and clinical practices in computational intelligence The main areas of interest covered in this book are highest quality original work that contributes to the basic science of processing analysing and utilizing all aspects of advanced computational prognostic modelling in healthcare image and data analysis Applications of Soft Computing for the Web Rashid Ali,MM Sufyan Beg,2018-01-08 This book discusses the applications of different soft computing techniques for the web based systems and services The respective chapters highlight recent developments in the field of soft computing applications from web based information retrieval to online marketing and online healthcare In each chapter author endeavor to explain the basic ideas behind the proposed applications in an accessible format for readers who may not possess a background in these fields This carefully edited book covers a wide range of new applications of soft computing techniques in Web recommender systems Online documents classification Online documents summarization Online document clustering Online market intelligence Web usage profiling Web data extraction Social network extraction Question answering systems Online health care Web knowledge management Multimedia information retrieval Navigation guides User profiles extraction Web based distributed information systems Web security applications Internet of Things Applications and so on The book is aimed for researchers and practitioner who are engaged in developing and applying intelligent systems principles for solving real life problems Further it has been structured so that each chapter can be read independently of the Biocomputation and Biomedical Informatics: Case Studies and Applications Lazakidou, Athina A., 2009-11-30 This others book provides a compendium of terms definitions and explanations of concepts processes and acronyms Provided by publisher RECENT TRENDS IN COMPUTING, COMMUNICATIONAND APPLICATIONS - PROCEEDINGS OF

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