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Pattern Recognition and Machine Intelligence Casemate Publishers

In the post-genomic era, a holistic understanding of biological systems and processes, in all their complexity, is critical in comprehending nature's choreography of life. As a result, bioinformatics involving its two main disciplines, namely, the life sciences and the computational sciences, is fast becoming a very promising multidisciplinary research field. With the ever-increasing application of large-scale high-throughput technologies, such as gene or protein microarrays and mass spectrometry methods, the enormous body of information is growing rapidly. Bioinformaticians are posed with a large number of difficult problems to solve, arising not only due to the complexities in acquiring the molecular information but also due to the size and nature of the generated data sets and/or the limitations of the algorithms required for analyzing these data. Although the field of bioinformatics is still in its embryonic stage,

the recent advancements in computational and information-theoretic techniques are enabling us to conduct various in silico testing and screening of many lab-based experiments before these are actually performed in vitro or in vivo. These in silico investigations are providing new insights for interpretation and establishing a new direction for a deeper understanding. Among the various advanced computational methods currently being applied to such studies, the pattern recognition techniques are mostly found to be at the core of the whole discovery process for apprehending the underlying biological knowledge. Thus, we can safely surmise that the ongoing bioinformatics revolution may, in future, inevitably play a major role in many aspects of medical practice and/or the discipline of life sciences.

Urban Growth and the Circular Economy Springer Science & Business Media

Omics Technologies and Bio-Engineering: Towards Improving Quality of Life, Volume 1 is a unique reference that brings together multiple perspectives on omics research, providing in-depth analysis and insights from an international team of authors. The book delivers pivotal information that will inform

and improve medical and biological research by helping readers gain more direct access to analytic data, an increased understanding on data evaluation, and a comprehensive picture on how to use omics data in molecular biology, biotechnology and human health care. - Covers various aspects of biotechnology and bio-engineering using omics technologies - Focuses on the latest developments in the field, including biofuel technologies - Provides key insights into omics approaches in personalized and precision medicine - Provides a complete picture on how one can utilize omics data in molecular biology, biotechnology and human health care

EUREM 88: Biology Arihant Publications India limited

The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IITM Gwalior, India. These research papers provide the latest developments in the broad area of "Computational Intelligence". The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques.

Transactions on Rough Sets XIV Springer

Highlighting the major economic and industrial changes in the lubrication industry since the first edition, Synthetics, Mineral Oils, and Bio-Based Lubricants, Second Edition outlines the state of the art in each major lubricant application area. Chapters cover trends in the major industries, such as the use of lubricant fluids, growth or decl

Proceedings Springer

Insight into the role of hormones, particularly estrogen and testosterone, in health and disease etiology - including interactions with other hormone pathways - has dramatically changed. Estrogen and androgen receptors, with their polymorphisms, are key molecules in all tissues and are involved in a number of homeostatic mechanisms but also pathological processes including carcinogenesis and the development of metabolic and neurological disorders such as diabetes and Alzheimer's disease. Endocrine disrupting chemicals (EDCs) can interfere with the endocrine (hormone) systems at certain dosages and play a key role in the pathology of disease. Most known EDCs are manmade and are therefore an increasing concern given the number commonly found in household products and the environment. This book will cover the mechanisms of EDC pathology across the spectrum of disease, as well as risk assessment and government and legal regulation to provide a holistic view of the current issues and cutting-edge research in the topic. With contributions from global leaders in the field, this book will be an ideal reference for toxicologists, endocrinologists and researchers interested in developmental biology, regulatory toxicology and the interface between environment and human health.

Business India Springer

This book constitutes the refereed proceedings of the Second International Conference on Distributed Computing and Internet Technology, ICDCIT 2005, held in Bhubaneswar, India in December 2005. The 40 revised full papers and 19 revised short papers presented together with 2 invited plenary talks were carefully reviewed and selected from 426 submissions. Covering the main areas distributed computing, internet technology, system security, data mining, and software engineering the papers are subdivided in topical sections on network protocols, routing in mobile ad hoc network, communication and coverage in wireless networks, secured communication in distributed systems, query and transaction processing, theory of distributed systems, grid computing, internet search and query, e-

commerce, browsing and analysis of Web elements, theory of secured systems, intrusion detection and ad hoc network security, secured systems techniques, software architecture, software optimization and reliability, formal methods, data clustering techniques, and multidimensional data mining.

Business World Springer Science & Business Media

Dragonflies (Odonata), represented by over 6000 known species, are unique insects. In more than one feature they differ, at the very first glance, from all other insect superorders including their nearest allies, the mayflies (Ephemeropteroidea). The Zygoptera and Anisoptera, on the other hand, are the dominant groups. Being voracious predators in both immature (aquatic) and adult (aerial) stages they are important elements of all, except the drier (or high alpine) environments in temperate and tropical regions, occupying a position at the apex of the food chain of invertebrate life. Many dragonfly species are tested biological control agents for several disease-transmitting vector mosquitoes, especially *Aedes* species. They are also ideal organisms to be used as indicators of water pollution and contamination. Many species serve as intermediate hosts of fluke parasites of birds, and thus are important in the transmission of parasitic diseases, especially of domestic poultry and wild ducks. Because of their unique morphology and physiology, dragonflies are used extensively in the study of many biological phenomena. All these subjects are discussed in this unique book comprising twenty three articles written by expert odonatologists from different parts of the world. The book is written in a lucid and comprehensible language, and will likely be useful to both the professional and amateur alike.

Tracing Your Family History on the Internet Scientific Publishers

During recent decades we have witnessed not only the introduction of automation into the work environment but we have also seen a dramatic change in how automation has influenced the conditions of work. While some 30 years ago the addition of a computer was considered only for routine and boring tasks in support of humans, the balance has dramatically shifted to the computer being able to perform almost any task the human is willing to delegate. The very fast pace of change in processor and information technology has been the main driving force behind this development. Advances in automation and especially Artificial Intelligence (AI) have enabled the formation of a rather unique team with human and electronic members. The team is still supervised by the human with the machine as a subordinate associate or assistant, sharing responsibility, authority and autonomy over many tasks. The requirement for teaming human and machine in a highly dynamic and unpredictable task environment has led to impressive achievements in many supporting technologies. These include methods for system analysis, design and engineering and in particular for information processing, for cognitive and complex knowledge [1] engineering .

Handbook of Research on Grid Technologies and Utility Computing: Concepts for Managing Large-Scale

Applications Springer Science & Business Media

Confidently face the challenges of proteomics research specific to plant science with the information in *Plant Proteomics*, which will introduce you to the techniques and methodologies required for the study of representative plant species. Read about proteomics studies in *Arabidopsis*, rice, and legumes and find information about common technologies like mass spectrometry and gel electrophoresis. Discover expression proteomics, functional proteomics, structural proteomics, bioinformatics, and systems biology, understand how to conduct proteomics studies in developing countries and underfunded laboratories, and gain access to guidelines for sample preparation.

Magbook General Science 2020 Springer Science & Business Media

1. Introduction to Bioinformatics 2. Introduction to Computers 3. Introduction to Internet 4. Search Engines: Tools for Web Search 5. Programming Languages 6. Genomics and Proteomics 7. Biological Databases 8. Sequence Analysis 9. Phylogenetic Analysis 10. Microarray Technology: A Boon to Biological Sciences 11. Bioinformatic...s in Drug Discovery: A Brief Overview 12. Genome Sequencing Projects 13. BTIS Network In India Index *Odonata Biology of Dragonflies* Scientific Publishers

This book explores the intricate world of livestock sciences and production through the lens of systems biology. Offering a comprehensive exploration of both fundamental and advanced aspects, it unearths the potential of systems biology in the realm of livestock. The book presents 13 edited chapters on cutting-edge knowledge about systems biology and omics technology, showcasing genomics, transcriptomics, proteomics, metabolomics, and more. It illuminates the role of systems biology in livestock and disease management. Readers will learn about power of technologies that merge computational biology, nanobiotechnology, artificial intelligence, and single-cell sequencing. Each chapter is written by scientific experts and includes references for further reading. The book covers 4 key themes: Introduction to Systems Biology in Livestock Science: Uncover the foundation of integrating systems biology with omics data for animal scientists. Multi-scale Modeling Techniques: Explore how multi-scale modeling is shaping the future of system biology. Livestock Viral Diseases: Gain insights into how systems biology is revolutionizing our understanding of livestock viral diseases. Single Cell RNA-Sequencing: Understand the potential of this advanced technique in studying livestock animals at a cellular level. This book is a timely resource for students and researchers, offering a pathway to comprehend the crucial role systems biology plays in sustainable livestock production and management.

Encyclopedia of Bioinformatics and Computational Biology Springer Nature

Following the migration of workflows, data, and communication to the Cloud and other Internet-based frameworks, interaction over the Web has become ever more commonplace. As with any social situation, there are rules and consequences to actions within a virtual environment. *Cyber Behavior: Concepts, Methodologies, Tools, and Applications* explores the role of cyberspace in modern communication and interaction, including considerations of ethics, crime, security, and education. With chapters on a variety of topics and concerns inherent to a contemporary networked society, this multi-volume work will be of particular interest to students and academicians, as well as software developers, computer scientists, and specialists in the field of Information Technologies.

Synthetics, Mineral Oils, and Bio-Based Lubricants John Wiley & Sons

"This book provides a compendium of terms, definitions, and explanations of concepts, issues, and trends in grid technology"-- Provided by publisher.

Design, Development, and Management of Resources for Digital Library Services Universities Press

This book constitutes the refereed proceedings of the Second International Conference on Security in Computer Networks and Distributed Systems, SNDS 2014, held in Trivandrum, India, in March 2014. The 32 revised full papers presented together with 9 short papers and 8 workshop papers were carefully reviewed and selected from 129 submissions. The papers are organized in topical sections on security and privacy in networked systems; multimedia security; cryptosystems, algorithms, primitives;

system and network security; short papers. The workshop papers were presented at the following workshops: Second International Workshop on Security in Self-Organising Networks (Self Net 2014); Workshop on Multidisciplinary Perspectives in Cryptology and Information Security (CIS 2014); Second International Workshop on Trust and Privacy in Cyberspace (Cyber Trust 2014).

Pattern Recognition in Bioinformatics WIT Press

Researchers in structural genomics continue to search for biochemical and cellular functions of proteins as well as the ways in which proteins assemble into functional pathways and networks using either experimental or computational approaches. Based on the experience of leading international experts, *Structural Genomics and High Throughput Stru*

Recent Trends in Computer Networks and Distributed Systems Security Bentham Science Publishers

Prof. G.N. Ramachandran Has Been Among The Foremost Biophysicists And Structural Biologists Of Our Times, And The Most Outstanding Scientist To Have Worked In Independent India. His Contributions Pertaining To Collagen, Methods Of Structural Analysis, Computer Modelling And Conformational Analysis, And Three-Dimensional Image Reconstruction Have Had A High Global Impact. This Volume In Honour Of Gnr Consists Of Articles At The Cutting Edge Of Structural Biology Contributed By Leading Scientists, Including Two Noble Laureates. It Is Intended To Be A Window To Modern Structural Biology And A Showcase Of The Indian Effort In This Area.

Text Book of Bioinformatics Springer Science & Business Media

When it comes to the preparation of the examinations like UPSC and State PCS students need to have solid yet precise knowledge about the subjects from the point of view of exam. ARIHANT's MAGBOOK provides all the study material in a concise and brief manner which is easy to digest by the students Magbook series is 2 in 1 series i.e. it's a combination of magazines and books that offers unique advantages of both as it comprehensively covers syllabus of General Science of UPSC and State PCS Preliminary Examination. It is useful for the aspirants as it covers all the topics of the syllabus in a concise and notes format to help students in easy remembrance and quick revision. This series covers every topic of General science (Physics, Chemistry, Biology and Science & Technology) in an easy-to-understand language which helps students grasp the topics easily and quickly. It focuses on the trends of questions of Previous Years' Civil Services Exams, Chapter-wise practice questions are given with more than 3,000 MCQs which covers the whole syllabus, Subject wise detailed explanations of Previous Years' Civil exams (2019- 2010) and 5 practice sets are also provided in the book that help the students to know latest pattern of the paper as well as its difficulty level. This book is a must for the civil services aspirants as it help them to move a step ahead towards their aim. TABLE OF CONTENT Physics, Chemistry, Biology, Science & Technology, Appendix, Practice Sets (1-5), Previous Years' Solved Papers Set 1, Previous Years' Solved Papers Set 2

Structural Genomics and High Throughput Structural Biology John Wiley & Sons

Presented at the 1st International Conference on Urban Growth and the Circular Economy that was held in Alicante, Spain the papers included in this book focus on the continuing and rapid growth of cities and their regions of influence and how that has led to the need to find new solutions which allow for promoting their sustainable development. The quest for the Sustainable City has until recently focused on the efficient use of resources with the application of technical advances giving rise to the definition of SMART Cities. The economic model emphasised however is still "linear" in the sense that the design and consumption follows the pattern of extraction of natural resources, manufacturing,

product usage and waste disposal. The continuous growth of urban population has recently given rise to the emergence of a new model which responds better to the challenges of natural resource depletion as well as waste management. This model has been called the “circular economy”. The circular economy is a recent concept based on the reuse of what up to now has been considered wastes, reintroducing them into the productive cycle. The objective of the circular economy is to reduce consumption and achieve savings in terms of raw materials, water and energy, thus contributing to the preservation of resources in order to reach sustainable development. One of the most important of these resources is water which is becoming a scarce commodity in an ever expanding world whose population demands a better standard of living. Water is required for agricultural purposes as well as by industry, in addition to its use by the general population. The recycling of water is an essential component of the circular economy. There is no possibility for the success of a long term economic policy without addressing the problems of natural resources and environmental pollution, which will affect the reuse of materials and products. The current market economy based on a linear model from resource extraction, manufacturing, consumption and waste disposal, has not proved a long term suitable solution, in spite of the substantial efforts made in reducing its environmental impacts. This is largely due to the continuous population growth, in a society that demands high standards of living, thus requiring an ever increasing share of natural resources.

Educational Infrastructure for Biotechnology in India John Wiley &

Sons

This book constitutes the refereed proceedings of the Second International Conference on Advances in Communication, Network, and Computing, CNC 2011, held in Bangalore, India, in March 2011. The 41 revised full papers, presented together with 50 short papers and 39 poster papers, were carefully reviewed and selected for inclusion in the book. The papers feature current research in the field of Information Technology, Networks, Computational Engineering, Computer and Telecommunication Technology, ranging from theoretical and methodological issues to advanced applications.

Plant Proteomics CRC Press

The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues, from logical and mathematical foundations, through all aspects of rough set theory and its applications, such as data mining, knowledge discovery, and intelligent information processing, to relations between rough sets and other approaches to uncertainty, vagueness, and incompleteness, such as fuzzy sets and theory of evidence. Volume XIV contains 11 revised extended papers from the 12th International Conference on Rough Sets, Fuzzy Sets, Data Mining and Granular Computing, RSFDGrC 2009, held in Delhi, India. The topics include various rough set generalizations in combination with formal concept analysis, lattice theory, fuzzy sets and belief functions, rough and fuzzy clustering techniques, as well as applications to gene selection, web page recommendation systems, facial recognition, and temporal pattern detection. In addition, this volume contains a regular article on rough multiset and its multiset topology.

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