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Medical Engineering and Bioinformatics Transactions on Computational Systems Biology XII Transactions on Rough Sets XII Data Management and Security Air and Water Pollution XXX Boundary Elements and Other Mesh Reduction Methods XXXVIII Biomedical Engineering and Environmental Engineering Handbook of Research on Computational Intelligence Applications in Bioinformatics Sustainable Irrigation Management, Technologies and Policies II Data Mining VIII Computational Intelligence in Biomedicine and Bioinformatics Computers in Railways XVII Transactions on Computational Systems Biology XI Statistical Bioinformatics with R Computational Finance and Its Applications III Disaster Management and Human Health Risk Applications of Fuzzy Logic in Bioinformatics Rough Sets and Knowledge Technology Data Mining IX Transactions of the Board of Trustees Bioinformatics Data Skills Transactions on Computational Systems Biology X Machine Learning and Cybernetics Transactions on Rough Sets VII Urban Transport XIX Human Transactions Machine Learning and Data Mining in Pattern Recognition Computational Intelligence in Bioinformatics Safety and Security Engineering V River Basin Management IX Digital Architecture and Construction Maritime Transport Coastal Cities and their Sustainable Future III Flood Recovery, Innovation and Response III Risk Analysis, Hazard Mitigation and Safety and Security Engineering XIII Biomedical Data and Applications Transactions on Computational Systems Biology III Transactions on Computational Systems Biology II Handbook of Research on Microbial Tools for Environmental Waste Management Computational Intelligence for Big Data Analysis

Transactions of the Board of Trustees Jul 04 2021

Computational Intelligence in Bioinformatics Oct 27 2020 Bioinformatics involve the creation and advancement of algorithms using techniques including computational intelligence, applied mathematics and statistics, informatics, and biochemistry to solve biological problems usually on the molecular level. This book deals with the application of computational intelligence in bioinformatics. Addressing the various issues of bioinformatics using different computational intelligence approaches is the novelty of this edited volume.

Maritime Transport Jun 22 2020 Maritime transport faces multiple challenges, therefore it requires an interdisciplinary approach in order to respond efficiently to the interaction between diverse agents. This book presents interdisciplinary research, as well as operational experiences, which contribute towards the development of the field.

Transactions on Rough Sets XII Dec 21 2022 This volume contains revised papers from the Rough Set and Knowledge Technology Conference (RSKT 2008), together with five papers introducing advances in rough set theory and its applications. It is part of the LNCS Transactions on Rough Sets series.

Human Transactions Dec 29 2020 Given the evolutionary and developmental processes that form a human being, can we believe that people can make rational and autonomous choices about their lives? The author examines the naturalistic meaning that can be assigned to moral agency, choice, and responsibility, in order to assert the conjunction between ethics and metaphysics.

Urban Transport XIX Jan 30 2021 This book contains the papers presented at the nineteenth annual International Conference on Urban Transport and the Environment. The papers cover research on how to minimise ecological and environmental impacts from urban transportation systems, make them sustainable, and use them to improve the socio-economic fabric of the city. Papers also address the concerns about the safety, security and efficiency of the systems. Topics covered include: Urban transport planning and Management; Transportation demand analysis; Traffic integration and control; Intelligent transport systems; Transport modelling and simulation; Land use and transport integration; Public transport systems; Environmental and ecological aspects; Air and noise pollution; Safety and security; Energy and transport fuels; Economic and social impact; and Advanced transport systems.

Coastal Cities and their Sustainable Future III May 22 2020 Originating from the 3rd Conference on Coastal Cities, the papers contained in this volume presents important research covering the integrated management and sustainable development of coastal cities. An increased world population and the preference for living in coastal regions increases the need for improved resources, infrastructure and services.

Transactions on Computational Systems Biology XI Feb 11 2022 This issue on Computational Models for Cell Processes is based on a workshop that took place in Turku, Finland, May 2008. The papers span a mix of approaches to systems biology, ranging from quantitative techniques to computing paradigms inspired by biology.

River Basin Management IX Aug 25 2020 Forming the 9th volume from this successful international conference series, this book marks a growing global interest in the planning, design and management of river basin systems. The included papers take in to account all aspects of Hydrology, Ecology, Environmental Management, Flood Plains and Wetlands. In recent years, work on river restoration and rehabilitation has had various degrees of success. Changes in the landscape, use of the land and climate conditions lead to a continuous reevaluation of river basin management objectives requiring the development of better measuring tools in conjunction with accurate computer technology. Floods and associated landslides, erosion and sedimentation can have serious effects on life and property and on the basin ecology. Man made changes in the river basin can also create significant problems. The following subject areas are covered in the publication: Water resources management; Flood risk management; Ecological and environmental impact; Erosion and sediment transport; Hydrological modelling; River restoration and rehabilitation; Hydropower issues and development; River and watershed management; Water quality issues; Organic contamination management; Agricultural pollution; Transboundary water issues; Estuaries and deltas; Climate change; Remote sensing; Hydraulic structures; Rain water management; Water energy nexus; Drought assessment and management; Ecosystem services.

Computational Intelligence in Biomedicine and Bioinformatics Apr 13 2022 The purpose of this book is to provide an overview of state-of-the-art methodologies currently utilized for biomedicine and/or bioinformatics-oriented applications. Researchers working in these fields will learn new methods to help tackle their problems.

Boundary Elements and Other Mesh Reduction Methods XXXVIII Sep 18 2022 Containing the latest in a long line of conferences covering the most recent advances in Boundary Elements and Mesh Reduction Methods (BEM/MRM), this book contains an important chapter in the history of this important method used in science and engineering. The BEM/MRM conference has long been recognised as THE international forum on the technique. The proceedings of the conference therefore constitute a record of the development of the method, running from the initial successful development of boundary integral techniques into the BEM, a method that eliminates the need for an internal mesh, to the recent and most sophisticated Mesh Reduction and even Meshless Methods. Since the boundary elements, mesh reduction, and meshless methods are used in many engineering and scientific fields, the book will be of great interest to all engineers and scientists working within the areas of numerical analysis, boundary elements and meshless methods. Topics covered include: Advanced formulations; Advanced meshless and mesh reduction methods; Structural mechanics applications; Solid mechanics; Heat and mass transfer, Electrical engineering and electromagnetics; Computational methods; Fluid flow modelling; Damage mechanics and fracture; Dynamics and Vibrations Engineering applications.

Biomedical Data and Applications Feb 17 2020 Compared with data from general application domains, modern biological data has many unique characteristics. Biological data are often characterized as having large volumes, complex structures, high dimensionality, evolving biological concepts, and insufficient data modelling practices. Over the past several years, bioinformatics has become an all-encompassing term for everything relating to both computer science and biology. The goal of this book is to cover data and applications identifying new issues and directions for future research in biomedical domain. The book will become a useful guide learning state-of-the-art development in biomedical data management, data-intensive bioinformatics systems, and other miscellaneous biological database applications. The book addresses various topics in bioinformatics with varying degrees of balance between biomedical data models and their real-world applications.

Transactions on Computational Systems Biology III Jan 18 2020 The LNCS journal Transactions on Computational Systems Biology is devoted to inter- and multidisciplinary research in the fields of computer science and life sciences and supports a paradigmatic shift in the techniques from computer and information science to cope with the new challenges arising from the systems-oriented point of view of biological phenomena. This, the third Transactions on Computational Systems Biology volume, edited by Emanuela Merelli, Pedro Pablo Gonzalez and Andrea Omicini, is devoted to considerably extended versions of selected papers presented at the International Workshop on Network Tools and Applications in Biology (NETTAB 2004), held at the University of Camerino, in Camerino, Italy, in September 2004. Dedicated especially to models and metaphors from biology to bioinformatics tools, the 10 papers selected for the special issue cover a wide range of bioinformatics research such as data visualisation, protein/RNA structure prediction, motif finding, modelling and simulation of protein interaction, genetic linkage analysis, and notations and models for systems biology.

Transactions on Rough Sets VII Feb 28 2021 Together with volume VI of the Transactions on Rough Sets series, this book commemorates the life and work of Zdzislaw Pawlak (1926-2006). It presents papers that reflect the profound influence of a number of research initiatives by Professor Pawlak, introducing a number of advances in the foundations and applications of AI, engineering, logic, mathematics, and science, which have had significant implications in a number of research areas.

Data Mining VIII May 14 2022 Information Engineering Management has found applications in many areas, including environmental conservation, economic planning, resource integration, cartography, urban planning, risk assessment, pollution control and transport management systems. Technology plays an active role in the relationship of Data Mining to environmental conservation planning. Bringing together papers presented at the Eighth International Conference on Data, Text and Web Mining and their Business Applications, this book addresses the new developments in this important field. Featured topics include: Text Mining; Web Content, Structures and Usage Mining; Clustering Technologies; Categorisation Methods; Link Analysis; Data Preparation; Applications in Business, Industry and Government; Applications in Science Engineering; National Security; Customer Relationship Management; Competitive Intelligence; Mining Environment and Geospatial Data; Business Process Management (BPM); Enterprise Information Systems; Applications of GIS and GPS; Applications of MIS; Remote Sensing; Information Systems Strategies and Methodologies and Bio Informatics.

Handbook of Research on Computational Intelligence Applications in Bioinformatics Jul 16 2022 Developments in the areas of biology and bioinformatics are continuously evolving and creating a plethora of data that needs to be analyzed and decrypted. Since it can be difficult to decipher the multitudes of data within these areas, new computational techniques and tools are being employed to assist researchers in their findings. The Handbook of Research on Computational Intelligence Applications in Bioinformatics examines emergent research in handling real-world problems through the application of various computation technologies and techniques. Featuring theoretical concepts and best practices in the areas of computational intelligence, artificial intelligence, big data, and bio-inspired computing, this publication is a critical reference source for graduate students, professionals, academics, and researchers.

Computers in Railways XVII Mar 12 2022 It is important to continue to update the use of advanced systems by promoting general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. Originating from presentations at the 17th International Conference on Railway Engineering Design and Operation, this volume contains selected research works on the topic. The included papers help to facilitate the use of advanced systems and place a key focus on the applications of computer systems in advanced railway engineering. These research studies will be of interest to all those involved in the development of railways, including managers, consultants, railway engineers, designers of advanced train control systems and computer specialists.

Bioinformatics Data Skills Jun 03 2021 Learn the data skills necessary for turning large sequencing datasets into reproducible and robust biological findings. With this practical guide, you'll learn how to use freely available open source tools to extract meaning from large complex biological data sets. At no other point in human history has our ability to understand life's complexities been so dependent on our skills to work with and analyze data. This intermediate-level book teaches the general computational and data skills you need to analyze biological data. If you have experience with a scripting language like Python, you're ready to get started. Go from handling small problems with messy scripts to tackling large problems with clever methods and tools Process bioinformatics data with powerful Unix pipelines and data tools Learn how to use exploratory data analysis techniques in the R language Use efficient methods to work with genomic range data and range operations Work with common genomics data file formats like FASTA, FASTQ, SAM, and BAM Manage your bioinformatics project with the Git version control system Tackle tedious data processing tasks with with Bash scripts and Makefiles

Safety and Security Engineering V Sep 25 2020 Organised by University of Rome 'La Sapienza', Italy, Wessex Institute of Technology, UK.

Medical Engineering and Bioinformatics Feb 23 2023 A collection of papers presented at the 2014 International Conference on Medical Engineering and Bioinformatics (MEB 2014) held in Wuhan, China are contained in this book. MEB 2014 was a forum for the presentation of new research results and demonstration of new systems and techniques in the broad field of medical engineering and bioinformatics. These proceedings bring together the latest work of researchers and developers from around the world to share state-of-art results, to explore new areas of research and development, and to discuss emerging issues facing these important topics.

Statistical Bioinformatics with R Jan 10 2022 Statistical Bioinformatics provides a balanced treatment of statistical theory in the context of bioinformatics applications. Designed for a one or two semester senior undergraduate or graduate bioinformatics course, the text takes a broad view of the subject – not just gene expression and sequence analysis, but a careful balance of statistical theory in the context of bioinformatics applications. The inclusion of R & SAS code as well as the development of advanced methodology such as Bayesian and Markov models provides students with the important foundation needed to conduct bioinformatics. Integrates biological, statistical and computational concepts Inclusion of R & SAS code Provides coverage of complex statistical methods in context with applications in bioinformatics Exercises and examples aid teaching and learning presented at the right level Bayesian methods and the modern multiple testing principles in one convenient book

Transactions on Computational Systems Biology X May 02 2021 Technology is taking us to a world where myriads of heavily networked devices interact with the physical world in multiple ways, and at many levels, from the global Internet to micro and nano devices. Many of these devices are highly mobile and autonomous and must adapt to the surrounding environment in a totally unsupervised way. A fundamental research challenge is the design of robust decentralized computing systems that are capable of operating in changing environments and with noisy input, and yet exhibit the desired behavior and response time, under constraints such as energy consumption, size, and processing power. These systems should be able to adapt and learn how to react to unforeseen scenarios as well as to display properties comparable to social entities. The observation of nature has brought us many great and unforeseen concepts. Biological systems are able to handle many of these challenges with an elegance and efficiency far beyond current human artifacts. Based on this observation, bio-inspired approaches have been proposed as a means of handling the complexity of such systems. The goal is to obtain methods to engineer technical systems, which are of a stability and efficiency comparable to those found in biological entities. This Special Issue on Biological and Biologically-inspired Communication contains the best papers from the Second International Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONET-ICS 2007). The BIONETICS conference aims to bring together researchers and scientists from several disciplines in computer science and engineering where bio-inspired methods are investigated, as well as from bioinformatics, to deepen the information exchange and collaboration among the different communities.

Transactions on Computational Systems Biology XII Jan 22 2023 LNCS 5945

Air and Water Pollution XXX Oct 19 2022 The merger of two successful events to form the 30th International Conference on Modelling, Monitoring and Management of Air and Water Pollution provided the papers that are published in this volume. Many important air pollution issues are discussed, demonstrating the widespread nature of the air pollution phenomena and the in-depth exploration required to address their impacts on human health and the environment. In addition, the topic of Water Pollution is discussed in a number of contexts across different areas of water contamination. The environmental problems caused by the increase of pollutant loads discharged into natural water bodies requires the formation of a framework for regulation and control. This framework needs to be based on scientific results that relate pollutant discharge with changes in water quality. The results of these studies allow the industry to apply more efficient methods of controlling and treating waste loads, and water authorities to enforce appropriate regulations regarding this matter. Environmental problems are essentially interdisciplinary. Engineers and scientists working in this field must be familiar with a wide range of issues including the physical processes of mixing and dilution, chemical and biological processes, mathematical modelling, data acquisition and measurement, to name but a few. In view of the scarcity of available data, it is important that experiences are shared on an international basis. Thus, a continuous exchange of information between scientists from different countries is essential.

Machine Learning and Cybernetics Apr 01 2021 This book constitutes the refereed proceedings of the 13th International Conference on Machine Learning and Cybernetics, Lanzhou, China, in July 2014. The 45 revised full papers presented were carefully reviewed and selected from 421 submissions. The papers are organized in topical sections on classification and semi-supervised learning; clustering and kernel; application to recognition; sampling and big data; application to detection; decision tree learning; learning and adaptation; similarity and decision making; learning with uncertainty; improved learning algorithms and applications.

Risk Analysis, Hazard Mitigation and Safety and Security Engineering XIII Mar 20 2020 Research and industrial developments in the theoretical and practical aspects of safety and security engineering are the focus of this volume. This field, due to its special nature, is an interdisciplinary area of research and application that brings together, in a systematic way, many disciplines of engineering from the traditional to the most technologically advanced. The included papers, which were originally presented at the 13th Conference on Risk Analysis, Hazard Mitigation and Safety and Security Engineering, cover areas such as crisis management, security engineering, natural disasters and emergencies, terrorism, IT security, man-made hazards, pandemics, transportation security, protection and mitigation issues, among others. Also covered are various aspects of risk management and hazard mitigation, associated with both natural and anthropogenic hazards. Current events help to emphasise the importance of the analysis and management of risk to planners and researchers around the world. Natural hazards such as floods, earthquakes, landslides, fires, epidemics, transportation, climate change, fake news and others have always affected human societies. The more recent emergence of the importance of man-made hazards is a consequence of the rapid technological advances made in the last few centuries. The interaction of natural and anthropogenic risks adds to the complexity of the problems.

Biomedical Engineering and Environmental Engineering Aug 17 2022 The proceedings of the 2013 International Conference on Biomedical Engineering and Environmental Engineering (ICBEEE 2013), held in Singapore, Singapore. Topics covered relate to: Bioinformatics and Computational Biology; Biomedical Engineering; Environmental Science and Technology.

Data Mining IX Aug 05 2021 Bringing together papers presented at the ninth International Conference on Data Mining, this book addresses the developments in this important field. Featured topics include: data preparation, clustering technologies, customer relationship management, text mining, web mining, and categorisation methods.

Flood Recovery, Innovation and Response III Apr 20 2020 Flooding claims many lives worldwide each year. In addition, many more lives are affected by homelessness, disease and crop failures as a result of floods' destructiveness. The number of recent flood events coupled with climate change predictions and urban development, suggest that these statistics are likely to worsen in the future. Flooding in populated areas can cause substantial property damage as well as threaten human life. Apart from the obvious physical damage to buildings, contents and loss of life, there are other more indirect losses that are often overlooked. These intangible impacts are generally associated with disruption to normal life as well as longer term health issues, including stress-related illness. The conference papers cover the following topics: Flood risk analysis, Flood risk management, Urban flood management, Flood forecasting, Risk assessment and decision making, Flood case studies, Community resilience to flooding, Energy preparedness and response, Critical infrastructure protection, Flood consequence assessment.

Computational Intelligence for Big Data Analysis Oct 15 2019 The work presented in this book is a combination of theoretical advancements of big data analysis, cloud computing, and their potential applications in scientific computing. The theoretical advancements are supported with illustrative examples and its applications in handling real life problems. The applications are mostly undertaken from real life situations. The book discusses major issues pertaining to big data analysis using computational intelligence techniques and some issues of cloud computing. An elaborate bibliography is provided at the end of each chapter. The material in this book includes concepts, figures, graphs, and tables to guide researchers in the area of big data analysis and cloud computing.

Applications of Fuzzy Logic in Bioinformatics Oct 07 2021 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.

Rough Sets and Knowledge Technology Sep 06 2021 This volume contains the papers selected for presentation at the Third International Conference on Rough Sets and Knowledge Technology (RSKT 2008) held in Chengdu, P. R. China, May 16–19,

2008. The RSKT conferences were initiated in 2006 in Chongqing, P. R. China. RSKT 2007 was held in Toronto, Canada, together with RSFDGrC 2007, as JRS 2007. The RSKT conferences aim to present state-of-the-art scientific results, encourage academic and industrial interaction, and promote collaborative research in rough sets and knowledge technology worldwide. They place emphasis on exploring synergies between rough sets and knowledge discovery, knowledge management, data mining, granular and soft computing as well as emerging application areas such as bioinformatics, cognitive informatics, and Web intelligence, both at the level of theoretical foundations and real-life applications. RSKT 2008 focused on five major research fields: computing theory and paradigms, knowledge technology, intelligent information processing, intelligent control, and applications. This was achieved by including in the conference program sessions on rough and soft computing, rough mereology with applications, dominance-based rough set approach, fuzzy-rough hybridization, granular computing, logical and mathematical foundations, formal concept analysis, data mining, machine learning, intelligent information processing, bioinformatics and cognitive informatics, Web intelligence, pattern recognition, and real-life applications of knowledge technology. A very strict quality control policy was adopted in the paper review process of RSKT 2008. Firstly, the PC Chairs reviewed all submissions.

Sustainable Irrigation Management, Technologies and Policies II Jun 15 2022 This book contains most of the papers presented at the Second International Conference on Sustainable Irrigation Management, Technologies and Policies, held at the University of Alicante in 2008. The meeting follows the success of the first Conference which was organised in Bologna in 2006.

Digital Architecture and Construction Jul 24 2020 Digital Architecture is a particularly dynamic field that is developing through the work of architecture schools, architects, software developers, researchers, technology, users, and society alike. Featuring papers from the First International Conference on Digital Architecture, this book will be of interest to professional and academic architects involved in the creation of new architectural forms, as well as those colleagues working in the development of new computer codes of engineers, including those working in structural, environmental, aerodynamic fields and others actively supporting advances in digital architecture. Expert contributions encompass topic areas such as: Database Management Systems for Design and Construction; Design Methods, Processes and Creativity; Digital Design, Representation and Visualization; Form and Fabric; Computer Integrated Construction and Manufacturing; Human-Machine Interaction; Connecting the Physical and the Virtual Worlds; Knowledge Based Design and Generative Systems; Linking Training, Research and Practice; Web Design Analysis; the Digital Studio; Urban Simulation; Virtual Architecture and Virtual Reality; Collaborative Design; Social Aspects.

Machine Learning and Data Mining in Pattern Recognition Nov 27 2020 The International Conference on Machine Learning and Data Mining (MLDM) is the third meeting in a series of biennial events, which started in 1999, organized by the Institute of Computer Vision and Applied Computer Sciences (IBaI) in Leipzig. MLDM began as a workshop and is now a conference, and has brought the topic of machine learning and data mining to the attention of the research community. Seventy-five papers were submitted to the conference this year. The program committee worked hard to select the most progressive research in a fair and independent review process which led to the acceptance of 33 papers for presentation at the conference. The 33 papers in these proceedings cover a wide variety of topics related to machine learning and data mining. The two invited talks deal with learning in case-based reasoning and with mining for structural data. The contributed papers can be grouped into nine areas: support vector machines; pattern discovery; decision trees; clustering; classification and retrieval; case-based reasoning; Bayesian models and methods; association rules; and applications. We would like to express our appreciation to the reviewers for their precise and highly professional work. We are grateful to the German Science Foundation for its support of the Eastern European researchers. We appreciate the help and understanding of the editorial staff at Springer Verlag, and in particular Alfred Hofmann, who supported the publication of these proceedings in the LNAI series. Last, but not least, we wish to thank all the speakers and participants who contributed to the success of the conference.

Computational Finance and Its Applications III Dec 09 2021 Featuring papers from the Third International Conference on Computational Finance and its Applications, the text includes papers that encompass a wide range of topics such as modern financial services technologies, derivatives pricing, portfolio management and asset allocation, and intelligent trading agents.

Transactions on Computational Systems Biology II Dec 17 2019 The LNCS journal Transactions on Computational Systems Biology is devoted to inter- and multidisciplinary research in the fields of computer science and life sciences and supports a paradigmatic shift in the techniques from computer and information science to cope with the new challenges arising from the systems oriented point of view of biological phenomena. This second volume of the Transactions on Computational Systems Biology is devoted to considerably extended versions of selected papers presented at the International Workshop on Bioinformatics Research and Applications (IWBR 2005), part of the International Conference on Computational Science (ICCS 2005), which took place at Emory University, Atlanta, Georgia, USA, in May 2005. The ten papers selected for the special issue cover a wide range of bioinformatics research such as problems in RNA structure prediction, coding schemes and structural alphabets for protein structure prediction, novel techniques for efficient gene transfer in phylogenetic networks, practical algorithms minimizing recombinations in pedigree phasing, parallel implementation in Open MP for finding the corresponding shortest edit distance between two signed gene permutations, and bioinformatics problems in DNA microarrays.

Disaster Management and Human Health Risk Nov 08 2021 Today the world faces unparalleled threats from human-made disasters that can be attributed to failure of industrial and energy installation as well as to terrorism. Added to this is the unparalleled threat of emerging and re-emerging diseases, with scientists predicting events such as an influenza pandemic.

Handbook of Research on Microbial Tools for Environmental Waste Management Nov 15 2019 The remediation of environmental pollutants has become a relevant topic within the field of waste management. Advances in biological approaches are a potential tool for contamination and pollution control. The Handbook of Research on Microbial Tools for Environmental Waste Management is a critical scholarly resource that explores the advanced biological approaches that are used as remediation for pollution cleanup processes. Featuring coverage on a broad range of topics such as biodegradation, microbial dehalogenation, and pollution controlling treatments, this book is geared towards environmental scientists, biologists, policy makers, graduate students, and scholars seeking current research on environmental engineering and green technologies.

Data Management and Security Nov 20 2022 Containing the papers presented at the first International Conference on Data Management and Security with applications in Medicine, Sciences and Engineering, this book focuses on the modern techniques applied in data management and knowledge acquisition with applications in a broad variety of fields. It also discusses recent developments in data security systems. Papers in the book cover such topics as Data and text mining; Ubiquitous devices; Numerical modelling; Expert systems; Databases; Cloud computing; Sensors and optoelectronics; Heuristic methods and genetic algorithms; Knowledge discovery; Prediction modelling; Data streaming; Clustering; Decision support systems; Cryptography; Information and codification; Engineering Applications.

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