Database Management System By P K Yadav

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Transforming Management with AI, Big-Data, and IoT - Fadi Al-Turjman 2022-02-17
This book discusses the effect that artificial intelligence (AI) and Internet of Things (IoT) have on industry. The authors start by showing how the application of these technologies has already stretched across domains such as law, political science, policy, and economics and how it will soon permeate areas of autonomous transportation, education, and space exploration, only to name a few. The authors then discuss applications in a variety of industries. Throughout

the volume, the authors provide detailed, well-illustrated treatments of each topic with abundant examples and exercises. This book provides relevant theoretical frameworks and the latest empirical research findings in various applications. The book is written for professionals who want to improve their understanding of the strategic role of trust at different levels of the information and knowledge society, that is, trust at the level of the global economy, of networks and organizations, of teams and work groups, of information systems and, finally, trust at the level of individuals as actors in the networked environments. Presents research in various industries and how artificial intelligence and Internet of Things is changing the landscape of business and management; Includes new and innovative features in artificial intelligence and IoT that can help in raising economic efficiency at both micro and macro levels; Examines case studies with tried and tested approaches to resolution of typical problems in each application of study.

An Introduction to Database Systems - C. J. Date 2000

For over 25 years, C. J. Dates An Introduction to Database Systems has been the authoritative resource for readers interested in gaining insight into and understanding of the principles of database systems. This exciting revision continues to provide a solid grounding in the foundations of database technology and to provide some ideas as to how the field is likely to develop in the future. The material is organized into six major parts. Part I provides a broad introduction to the concepts of database systems in general and relational systems in particular. Part II consists of a careful description of the relational model, which is the theoretical foundation for the database field as a whole. Part III discusses the general theory of database design. Part IV is concerned with transaction management. Part V shows how relational concepts are relevant to a variety of further

aspects of database technology-security, distributed databases, temporal data, decision support, and so on. Finally, Part VI describes the impact of object technology on database systems. This Seventh Edition of An Introduction to Database Systems features widely rewritten material to improve and amplify treatment o

Engineering Practices for Management of Soil Salinity - S. K. Gupta 2018-08-29

Abiotic stresses are known to adversely impact agricultural productivity on millions of hectares globally, and it is projected that these problems are likely to increase, primarily due to anthropogenic interventions as well as climatic changes. Understanding abiotic stresses—especially salt stress on soil—calls for an interdisciplinary approach because salt-stressed soils need hydro-technical, chemical, and agronomic interventions as well as an understanding of plant response when exposed to these stresses. This volume explores and conveys the latest information on emerging technologies in the management of abiotic salt stress and their field applications. It brings together experts from various fields (academia, technology, and engineering) to provide the latest information and knowledge on this important challenge.

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2016-12-12

Ongoing advancements in modern technology have led to significant developments in artificial intelligence. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. Artificial Intelligence: Concepts, Methodologies, Tools, and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence. Highlighting relevant technologies, uses, and techniques across various industries and settings, this publication is a pivotal reference source for researchers, professionals,

academics, upper-level students, and practitioners interested in emerging perspectives in the field of artificial intelligence.

4th International Conference on Wireless, Intelligent and Distributed Environment for Communication - Isaac Woungang 2022-02-03
This book presents the proceedings of the 4th International Conference on Wireless Intelligent and Distributed Environment for Communication (WIDECOM 2021), which took place at University of KwaZulu-Natal, South Africa, October 13-15, 2021. The book addresses issues related to new dependability paradigms, design, and performance of dependable network computing and mobile systems, as well as issues related to the security of these systems. The main tracks include infrastructure, architecture, algorithms, and protocols. The goal of the conference is to provide a forum for researchers, students, scientists and engineers working in academia and industry to share their experiences, new ideas and research results in the above-mentioned areas.

Disease Control Priorities, Third Edition (Volume 6) - King K. Holmes 2017-11-06
Infectious diseases are the leading cause of death globally, particularly among children and young adults. The spread of new pathogens and the threat of antimicrobial resistance pose particular challenges in combating these diseases. Major Infectious Diseases identifies feasible, cost-effective packages of interventions and strategies across delivery platforms to prevent and treat HIV/AIDS, other sexually transmitted infections, tuberculosis, malaria, adult febrile illness, viral hepatitis, and neglected tropical diseases. The volume emphasizes the need to effectively address emerging antimicrobial resistance, strengthen health systems, and increase access to care. The attainable goals are to reduce incidence, develop innovative approaches, and optimize existing tools in resource-constrained settings.

Impact of AI and Data Science in Response

to Coronavirus Pandemic - Sushruta Mishra 2021-07-22

The book presents advanced AI based technologies in dealing with COVID-19 outbreak and provides an in-depth analysis of variety of COVID-19 datasets throughout globe. It discusses recent artificial intelligence based algorithms and models for data analysis of COVID-19 symptoms and its possible remedies. It provides a unique opportunity to present the work on state-of-the-art of modern artificial intelligence tools and technologies to track and forecast COVID-19 cases. It indicates insights and viewpoints from scholars regarding risk and resilience analytics for policy making and operations of large-scale systems on this epidemic. A snapshot of the latest architectures, frameworks in machine learning and data science are also highlighted to gather and aggregate data records related to COVID-19 and to diagnose the virus. It delivers significant research outcomes and inspiring new real-world applications with respect to feasible AI based solutions in COVID-19 outbreak. In addition, it discusses strong preventive measures to control such pandemic.

A Handbook of Information Technology - Bubu Bhuyan 2007

Information technology (IT) can be collectively described as that used by man to gather, store and retrieve, manipulate and communicate data and information. Today , in the 'Information Age', this takes place over and across vast geographical, demographical, socio-political and economic scopes, and the ceasing of it will choke society, as know it today, to a pre-historic standstill. It is, understandably implemented through various aspects of computing and Electronic Technology. With the growing complexity of the information processing needs throughout fields as diverse as business, science, technology, exploration and entertainment, several issues involving data security, time complexity. Bandwidth and thought put, parallel and alternative computing technology and the

technology used in an ever-increasing band of newer types of devices, are posing the most crucial questions to the future of society in general and IT in particular. The book is a collection of articles written by professors, industry persons and researchers if international repute and comprises the latest breakthrough sin the fields of Information Theory and Coding, Information Security, Next Generation Internet technology, Data Mining and Knowledge Management, Mobile Computing and Communication. Bioinformatics, Soft Computing, Multimedia Systems and Communication, Quantum Computing, Image Processing and other areas which together comprise IT. This book is a must read for those seeking to expand their knowledge about various aspects of Information Technology.

Proceedings of International Conference in Mechanical and Energy Technology - Sanjay Yadav 2020-06-01

This book presents selected peer-reviewed papers from the International Conference on Mechanical and Energy Technologies, which was held on 7–8 November 2019 at Galgotias College of Engineering and Technology, Greater Noida, India. The book reports on the latest developments in the field of mechanical and energy technology in contributions prepared by experts from academia and industry. The broad range of topics covered includes aerodynamics and fluid mechanics, artificial intelligence, nonmaterial and nonmanufacturing technologies, rapid manufacturing technologies and prototyping, remanufacturing, renewable energies technologies, metrology and computer-aided inspection, etc. Accordingly, the book offers a valuable resource for researchers in various fields, especially mechanical and industrial engineering, and energy technologies.

Handbook of Ecological and Ecosystem Engineering - Majeti Narasimha Vara Prasad 2021-05-25

Learn from this integrated approach to the

management and restoration of ecosystems edited by an international leader in the field The Handbook of Ecological and Ecosystem Engineering delivers a comprehensive overview of the latest research and practical developments in the rapidly evolving fields of ecological and ecosystem engineering. Beginning with an introduction to the theory and practice of ecological engineering and ecosystem services, the book addresses a wide variety of issues central to the restoration and remediation of ecological environments. The book contains fulsome analyses of the restoration, rehabilitation, conservation, sustainability, reconstruction, remediation, and reclamation of ecosystems using ecological engineering techniques. Case studies are used to highlight practical applications of the theory discussed within. The material in the Handbook of Ecological and Ecosystem Engineering is particularly relevant at a time when the human population is dramatically rising, and the exploitation of natural resources is putting increasing pressure on planetary ecosystems. The book demonstrates how modern scientific ecology can contribute to the greening of the environment through the inclusion of concrete examples of successful applied management. The book also includes: A thorough discussion of ecological engineering and ecosystem services theory and practice An exploration of ecological and ecosystem engineering economic and environmental revitalization An examination of the role of soil meso and macrofauna indicators for restoration assessment success in a rehabilitated mine site A treatment of the mitigation of urban environmental issues by applying ecological and ecosystem engineering A discussion of soil fertility restoration theory and practice Perfect for academic researchers, industry scientists, and environmental engineers working in the fields of ecological engineering, environmental science, and biotechnology, the Handbook of Ecological and Ecosystem

Engineering also belongs on the bookshelves of environmental regulators and consultants, policy makers, and employees of non-governmental organizations working on sustainable development.

System Performance and Management Analytics - P. K. Kapur 2018-07-30

This book shares key insights into system performance and management analytics, demonstrating how the field of analytics is currently changing and how it is used to monitor companies' efforts to drive performance.Managing business performance facilitates the effective accomplishment of strategic and operational goals, and there is a clear and direct correlation between using performance management applications and improved business and organizational results. As such, performance and management analytics can yield a range of direct and indirect benefits, boost operational efficiency and unlock employees' latent potential, while at the same time aligning services with overarching goals.The book addresses a range of topics, including software reliability assessment, testing, quality management, system-performance management, analysis using soft-computing techniques, and management analytics. It presents a balanced, holistic approach to viewing the world from both a technical and managerial perspective by considering performance and management analytics. Accordingly, it offers a comprehensive guide to one of the most pressing issues in today's technology-dominated world, namely, that most companies and organizations find themselves awash in a sea of data, but lack the human capital, appropriate tools and knowledge to use it to help them create a competitive edge.

Recent Developments in Data Science and Intelligent Analysis of Information - Oleg Chertov 2018-08-04

This book constitutes the proceedings of the XVIII International Conference on Data Science and

Intelligent Analysis of Information (ICDSIAI'2018), held in Kiev, Ukraine on June 4-7, 2018. The conference series, which dates back to 2001 when it was known as the Workshop on Intelligent Analysis of Information, was renamed in 2008 to reflect the broadening of its scope and the composition of its organizers and participants. ICDSIAI'2018 brought together a large number of participants from numerous countries in Europe, Asia and the USA. The papers presented addressed novel theoretical developments in methods, algorithms and implementations for the broadly perceived areas of big data mining and intelligent analysis of data and information, representation and processing of uncertainty and fuzziness, including contributions on a range of applications in the fields of decision-making and decision support, economics, education, ecology, law, and various areas of technology. The book is dedicated to the memory of the conference founder, the late Professor Tetiana Taran, an outstanding scientist in the field of artificial intelligence whose research record, vision and personality have greatly contributed to the development of Ukrainian artificial intelligence and computer science.

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2012-09-30

Developments in technologies have evolved in a much wider use of technology throughout science, government, and business; resulting in the expansion of geographic information systems. GIS is the academic study and practice of presenting geographical data through a system designed to capture, store, analyze, and manage geographic information. Geographic Information Systems: Concepts, Methodologies, Tools, and Applications is a collection of knowledge on the latest advancements and research of geographic information systems. This book aims to be useful for academics and

practitioners involved in geographical data.

Transforming Organizations Through Flexible Systems Management - P.K. Suri 2019-08-23

The book focuses on key emerging areas concerning flexible systems management as an approach for transforming organizations. It is divided into three parts, discussing Enterprise Flexibility and Performance Management; Transformational Strategies and Organizational Competitiveness; and Supply Chain Flexibility. Part I addresses the integration aspects of learning, innovation, and entrepreneurship for organizational success, performance gains through cross-border acquisitions, flexibility measurement, and organizational competitiveness, impact of disinvestment, employability gaps and sustainable growth. Part II then examines risk governance structure, supporting culture, channel collaboration, waste management, IT-based process re-engineering, HR flexibility and adoption of big data as transformational strategies. Lastly, the third part investigates the development of a framework for a green flexible manufacturing system, measuring the effect of supply chain design on firm performance, exploring and ranking logistics service providers' best practices, and exploring the relationship between optimism and career planning in the context of manufacturing sector, and analyzes customers' emotional engagement and their inclinations towards the brand. The concept of flexibility is a common thread running through the three parts. The book is supported by both quantitative- and qualitative-based research as well as case applications relating to different areas of government and profit and not for profit organizations. Written by leading academics and practitioners, it is a useful resource for management students, scholars, consultants and practicing managers in both government and corporate sectors.

Proceedings of Second International Conference in Mechanical and Energy Technology - Sanjay Yadav 2022-06-26

This book presents selected peer-reviewed papers from the International Conference on Mechanical and Energy Technologies, which was held on October 28–29, 2021, at Galgotias College of Engineering and Technology, Greater Noida, India. The book reports on the latest developments in the field of mechanical and energy technology in contributions prepared by experts from academia and industry. The broad range of topics covered includes aerodynamics and fluid mechanics, artificial intelligence, nonmaterial and nonmanufacturing technologies, rapid manufacturing technologies and prototyping, remanufacturing, renewable energies technologies, metrology and computer-aided inspection, etc. Accordingly, the book offers a valuable resource for researchers in various fields, especially mechanical and industrial engineering, and energy technologies.

Advances in Crop Production and Climate Change - A.S. Yadav 2023-01-06

This book has comprehensive coverage and advances in agriculture for sustainable development and is expected to provide valuable sources for scholars and researchers, as well as serve as a guide book to the farmer's community and development agencies. The book is organized into 18 chapters, which include advances in production technologies of crops e.g. rice, wheat, barley, maize, pearl millet, pulses and oilseeds; sugarcane; medicinal and aromatic plants; vegetable crops; fodder crops; resource conservation technologies; management of degraded and sodic lands; soil biodiversity; farm mechanization, etc. The text is illustrated with tables, figures and photographs to bring out the significant findings. The book provides cutting-edge scientific knowledge as well as solid background information that are accessible for those who have a strong interest in agricultural research and development and want to learn more on the challenges facing the global agricultural production systems. Note: T&F does not sell or distribute the Hardback in India,

Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. This title is co-published with New India Publishing Agency.

IoT and AI Technologies for Sustainable Living - Abid Hussain 2022-10-18

This book brings together all the latest methodologies, tools and techniques related to the Internet of Things and Artificial Intelligence in a single volume to build insight into their use in sustainable living. The areas of application include agriculture, smart farming, healthcare, bioinformatics, self-diagnosis systems, body sensor networks, multimedia mining, and multimedia in forensics and security. This book provides a comprehensive discussion of modeling and implementation in water resource optimization, recognizing pest patterns, traffic scheduling, web mining, cyber security and cyber forensics. It will help develop an understanding of the need for AI and IoT to have a sustainable era of human living. The tools covered include genetic algorithms, cloud computing, water resource management, web mining, machine learning, block chaining, learning algorithms, sentimental analysis and Natural Language Processing (NLP). IoT and AI Technologies for Sustainable Living: A Practical Handbook will be a valuable source of knowledge for researchers, engineers, practitioners, and graduate and doctoral students working in the field of cloud computing. It will also be useful for faculty members of graduate schools and universities.

Recent Advances in Environmental Management - Ram Naresh Bharagava 2018-10-25

This book focuses on the toxicity of various organic and inorganic pollutants, their eco-toxicological effects and eco-friendly approaches for remediation of environmental pollutants. Extensive focus has been relied on the recent advances in ecofriendly approaches such as bioremediation and phytoremediation technologies, including the use of various group of microbes for remediation of environmental pollutants, etc. Researchers working in the field

of bioremediation, phytoremediation, waste management and related fields will find this compilation most useful for further study to learn about the subject matter.

Handbook of Research on Geographic Information Systems Applications and Advancements - Faiz, Sami 2016-10-21

The proper management of geographic data can provide assistance to a number of different sectors within society. As such, it is imperative to continue advancing research for spatial data analysis. The Handbook of Research on Geographic Information Systems Applications and Advancements presents a thorough overview of the latest developments in effective management techniques for collecting, processing, analyzing, and utilizing geographical data and information. Highlighting theoretical frameworks and relevant applications, this book is an ideal reference source for researchers, academics, professionals, and students actively involved in the field of geographic information systems.

Big Data Analytics - V. B. Aggarwal 2017-10-03

This volume comprises the select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volumes cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on Big Data Analytics. The contents of this book will be useful to researchers and students alike.

Sustainable Intensification for Agroecosystem Services and Management - Manoj Kumar Jhariya 2021-10-21

This edited book provides a comprehensive account of the sustainable intensification process through various forms of case studies and scientific approaches studied across the globe. It also focuses on the agroecosystem services and their subsequent management for ecological

integrity. The book helps to understand the interconnection of food, nutrition, economic growth, and environmental security on the planet. It provides comprehensive information with photographic illustration and various other forms of scientific databases on sustainable intensification of agroecosystems. The book also supports decision-making, strategies, and policy formulation for effective implementation of sustainable intensification towards higher productivity along with maintenance and management of agroecosystem services. Proper sustainable intensification of agroecosystem services and their management by maintaining ecological harmony is the future prospect for sustainable development. High input agriculture gives rise to a high-energy footprint, agricultural pollution, resource depletion, loss of agro-biodiversity, and decline of human health. Through this connection, the sustainable intensification approach addresses the advanced food security, sustainability, and overall prosperity of humankind. The book is helpful for both undergraduate and postgraduate students, policymakers, the farming community, as well as the scientific community across the globe to understand the concept of sustainable intensification and its application in relevant fields for proper management of agroecosystems services.

Database Management Systems - P.S. Gill 2010-09-30

The book is intended to provide an insight into the DBMS concepts. An effort has been made to familiarize the readers with the concepts of database normalization, concurrency control, deadlock handling and recovery etc., which are extremely vital for a clear understanding of DBMS. To familiarize the readers with the equivalence amongst Relational Algebra, Tuple Relational Calculus, and SQL, a large number of equivalent queries have been provided. The concepts of normalization have been elaborated very systematically by fully covering the

underlying concepts of functional dependencies, multi-valued dependencies, join dependencies, loss-less-join decomposition, dependency-preserving decomposition etc. It is hoped that with the help of the information provided in the text, a reader will be able to design a flawless database. Also, the concepts of serializabilty, concurrency control, deadlock handling and log-based recovery have been covered in full detail. An overview has also been provided of the issues related to distributed-databases.

Introduction to Database Management Systems - 2005-11

Data Analytics and Management - Ashish Khanna 2021-01-04

This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2020), held at Jan Wyzykowski University, Poland, during June 2020. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

Essentials of Business Analytics - Bhimasankaram Pochiraju 2019-07-10

This comprehensive edited volume is the first of its kind, designed to serve as a textbook for long-duration business analytics programs. It can also be used as a guide to the field by practitioners. The book has contributions from experts in top universities and industry. The editors have taken extreme care to ensure continuity across the chapters. The material is organized into three parts: A) Tools, B) Models and C) Applications. In Part A, the tools used by business analysts are described in detail. In Part B, these tools are applied to construct models used to solve business problems. Part C contains detailed applications in various functional areas of business and several case studies. Supporting

material can be found in the appendices that develop the pre-requisites for the main text. Every chapter has a business orientation. Typically, each chapter begins with the description of business problems that are transformed into data questions; and methodology is developed to solve these questions. Data analysis is conducted using widely used software, the output and results are clearly explained at each stage of development. These are finally transformed into a business solution. The companion website provides examples, data sets and sample code for each chapter.

Introduction to Database Management System - Satinder Bal Gupta

Geospatial Technologies for Land and Water Resources Management - Ashish Pandey 2021-12-06

This book focuses on the application of geospatial technologies to study the land use land cover (LULC) dynamics, agricultural water management, water resources assessment and modeling, and studies on natural disasters. LULC dynamics is one of the major research themes for studying global environmental change using remote sensing data. The section on LULC dynamics covers the multi-variate criteria for land use and land cover classification and change assessment in the mountainous regions. Further, LULC change detection of the Tons river basin and LULC dynamics at decadal frequency are studied to derive adaptation and mitigation strategies. Landscape-level forest disturbance modeling, together with conservation implications, is also included. The watershed management approach is necessary for comprehensive management of land and water resources of any region, where studies on multi-criteria analysis for rainwater harvesting planning and its impact on land use land cover transformations in rain-fed areas using geospatial technologies are presented in this book. The

book will be useful for academics, water practitioners, scientists, water managers, environmentalists, and administrators, NGOs, researchers, and students who are actively involved in the application of geospatial technologies in LULC studies, agricultural water management and hydrological modelling and natural disasters for addressing the challenges being posed by climate change while addressing issues of food and water securities

Systems Approach to Understanding the Biology of Cold Stress Responses in Plants - Rosalyn B. Angeles-Shim 2022-09-07

Managing aquifer recharge - UNESCO 2021-11-25

Industrial Safety Management - J Maiti 2017-10-30

This edited volume focuses on research conducted in the areas of industrial safety. Chapters are extensions of works presented at the International Conference on Management of Ergonomic Design, Industrial Safety and Healthcare Systems. The book addresses issues such as occupational safety, safety by design, safety analytics and safety management. It is a useful resource for students, researchers, industrial professionals and engineers.

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing - Management Association, Information Resources 2021-01-25

Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration

Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities - Pramanik, Sabyasachi 2023-02-17

A smart city utilizes ICT technologies to improve the working effectiveness, share various data with the citizens, and enhance political assistance and societal wellbeing. The fundamental needs of a smart and sustainable city are utilizing smart technology for enhancing municipal activities, expanding monetary development, and improving citizens' standards of living. The Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities discusses new mathematical models in smart and sustainable cities using big data, visualization tools in mathematical modeling, machine learning-based mathematical modeling, and more. It further delves into privacy and ethics in data analysis. Covering topics such as deep learning, optimization-based data science, and smart city automation, this premier reference source is an excellent resource for mathematicians, statisticians, computer scientists, civil engineers, government officials, students and educators of higher education, librarians, researchers, and academicians.

Recent Advancement in White Biotechnology Through Fungi - Ajar Nath Yadav 2019-10-01

Over the last decade considerable progress has

been made in white biotechnology research and further major scientific and technological breakthroughs are expected in the future. The first large-scale industrial applications of modern biotechnology have been in the areas of food and animal feed production (agricultural/green biotechnology) and in pharmaceuticals (medical/red biotechnology). In contrast, the productions of bioactive compounds through fermentation or enzymatic conversion are known as industrial or white biotchnology. The fungi are ubiquitous in nature and have been sorted out from different habitats, including extreme environments (high temperature, low temperature, salinity and pH); and associated with plants (Epiphytic, Endophytic and Rhizospheric). The fungal strains are beneficial as well as harmful for human beings. The beneficial fungal strains may play important roles in the agricultural, industrial, and medical sectors. The fungal strains and its product (enzymes, bioactive compounds, and secondary metabolites) are very useful for industry (e.g., the discovery of penicillin from Penicillium chrysogenum). This discovery was a milestone in the development of white biotechnology as the industrial production of penicillin and antibiotics using fungi moved industrial biotechnology into the modern era, transforming it into a global industrial technology. Since then, white biotechnology has steadily developed and now plays a key role in several industrial sectors providing both high value nutraceutical and pharmaceutical products. The fungal strains and bioactive compounds also play an important role in environmental cleaning. This volume covers the latest research developments related to value-added products in white biotechnology through fungi.

Proteomics and Systems Biology - 2021-07-30

Proteomics and Systems Biology, Volume 127 in the Advances in Protein Chemistry and Structural Biology series, outlines current proteomic methodologies and discuss the challenges in

future applications of systems biology in a number of biomedical/bioscience subjects. In last few decades, advances in genomics, proteomics, metabolomics, glycomics, venomics, etc., have produced vast large-scale datasets that need to be analyzed with a single main objective of understanding biological systems as a whole. Such understanding will allow us to predict and characterize the dynamic properties of biological systems. Integrates experimental and computational methods for understanding biological systems as a whole Contains timely chapters written by well-renowned authorities in their field Includes well supported content that is accompanied by a number of high-quality illustrations, figures and tables, hence it targets a wide audience of specialists, researchers and students

Wilkins' Clinical Practice of the Dental Hygienist - Linda D. Boyd 2023-06-05

Wilkins' Clinical Practice of the Dental Hygienist, Fourteenth Edition progresses through crucial topics in dental hygiene in a straightforward format to ensure students develop the knowledge and skills they need for successful, evidence-based practice in today's rapidly changing oral health care environment. This cornerstone text, used in almost every dental hygiene education program in the country, has been meticulously updated by previous co-authors, Linda Boyd, and Lisa Mallonee to even better meet the needs of today's students and faculty, while reflecting the current state of practice in dental hygiene. Maintaining the hallmark outline format, the Fourteenth Edition continues to offer the breadth and depth of coverage necessary not only for foundation courses bur for use throughout the entire dental hygiene curriculum.

Genetic Resources, Chromosome Engineering, and Crop Improvement - Ram J. Singh 2011-09-15

Medicinal Plants, Volume 6 of the Genetic Resources, Chromosome Engineering, and Crop

Improvement series summarizes landmark research and describes medicinal plants as nature's pharmacy. HighlightsExamines the use of molecular technology for maintaining authenticity and quality of plant-based productsDetails reports on individual medicinal plants i

Research Developments in Saline Agriculture - Jagdish Chander Dagar 2019-06-21

Soil and water salinity is a major challenge for the agricultural community and policy makers in terms of meeting the burgeoning population's demand for food and other agricultural commodities. In coastal regions, climate change and sea level rise will aggravate the problem with more and more areas becoming saline due to intrusion of sea water. As such there is a pressing need for modern tools and innovative techniques for the identification of salty soils and poor-quality waters, crop production, soil reclamation and lowering the water table in waterlogged areas. Tackling next-generation problems such as contamination of soil and underground water due to fluoride and arsenic, as well as developing multi-stress tolerant crops is also a high priority. Further, techniques for domesticating halophytes, mangrove-based aquacultures, using seaweed cultures as agricultural crops and integrated farming systems need to be perfected. This book addresses all these aspects in detail, highlighting the diverse solutions to tackle the complex problem of salinity and waterlogging and safer management of poor-quality waters. With chapters written by leading experts, it is a valuable resource for researchers planning future investigations, policy makers, farmers and other stakeholders, and for students wanting insights into vital issues of environment.

Cognitive Informatics and Soft Computing - Pradeep Kumar Mallick 2022-05-30

This book presents best selected research papers presented at the 4th International Conference on Cognitive Informatics and Soft Computing (CISC

2021), held at Balasore College of Engineering & Technology, Balasore, Odisha, India, from 21–22 August 2021. It highlights, in particular, innovative research in the fields of cognitive informatics, cognitive computing, computational intelligence, advanced computing, and hybrid intelligent models and applications. New algorithms and methods in a variety of fields are presented, together with solution-based approaches. The topics addressed include various theoretical aspects and applications of computer science, artificial intelligence, cybernetics, automation control theory, and software engineering.

Cloud Computing Security - John R. Vacca 2020-11-05

This handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues. As more organizations use cloud computing and cloud providers for data operations, the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes. Research efforts from academia and industry as conducted and reported by experts in all aspects of security related to cloud computing are gathered within one reference guide. Features • Covers patching and configuration vulnerabilities of a cloud server • Evaluates methods for data encryption and long-term storage in a cloud server • Demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations John R. Vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage, computer security, and aerospace technology. John was also a configuration management specialist, computer specialist, and the computer security official (CSO) for NASA's space station program (Freedom) and the International Space

Station Program from 1988 until his 1995 retirement from NASA.

Soil Organic Matter and Feeding the Future - Rattan Lal 2021-12-09

Soil organic matter (SOM) is the primary determinant of soil functionality. Soil organic carbon (SOC) accounts for 50% of the SOM content, accompanied by nitrogen, phosphorus, and a range of macro and micro elements. As a dynamic component, SOM is a source of numerous ecosystem services critical to human well-being and nature conservancy. Important among these goods and services generated by SOM include moderation of climate as a source or sink of atmospheric CO2 and other greenhouse gases, storage and purification of water, a source of energy and habitat for biota (macro, meso, and micro-organisms), a medium for plant growth, cycling of elements (N, P, S, etc.), and generation of net primary productivity (NPP). The quality and quantity of NPP has direct impacts on the food and nutritional security of the growing and increasingly affluent human population. Soils of agroecosystems are depleted of their SOC reserves in comparison with those of natural ecosystems. The magnitude of depletion depends on land use and the type and severity of degradation. Soils prone to accelerated erosion can be strongly depleted of their SOC reserves, especially those in the surface layer. Therefore, conservation through restorative land use and adoption of recommended management practices to create a positive soil-ecosystem carbon budget can increase carbon stock and soil health. This volume of Advances in Soil Sciences aims to accomplish the following: Present impacts of land use and soil management on SOC dynamics Discuss effects of SOC levels on agronomic productivity and use efficiency of inputs Detail potential of soil management on the rate and cumulative amount of carbon sequestration in relation to land use and soil/crop management Deliberate the cause-effect relationship between SOC content and

provisioning of some ecosystem services Relate soil organic carbon stock to soil properties and processes Establish the relationship between soil organic carbon stock with land and climate

Identify controls of making soil organic carbon stock as a source or sink of CO_2 Connect soil organic carbon and carbon sequestration for climate mitigation and adaptation