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Diarrhoeal Diseases Research 1995-12

Scaling-up Solutions for Farmers Suhas P. Wani 2021-11-17 This book provides a unique account of cross-sectoral innovations through efficient partnerships based on the hands-on experience of internationally renowned contributors specialised in the field of Science of Delivery. The challenges and lessons learned from large development initiatives based in Asia, and from the work undertaken by international research institutions, such as the FAO, are brought together in this book to benefit development agencies, policy makers, corporates, post graduate students, farmers' organizations, and those involved in supplying agricultural inputs and/or buying agricultural produce, particularly in developing countries within Asia and Africa. Through a number of case studies the book describes how the consortium approach of capacity building for equitable and efficient benefits, collective action, and convergence, will benefit millions of small farm-holders in different regions of Asia

Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions Khan, Mohammad Ayoub

2012-03-31 "This book is the best source for the most current, relevant, cutting edge research in the field of industrial informatics focusing on different methodologies of information technologies to enhance industrial fabrication, intelligence, and manufacturing processes"-- Provided by publisher.

Advanced Computing and Systems for Security Rituparna Chaki 2019-08-14 This book features extended versions of selected papers that were presented and discussed at the 6th International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2019) held in Kolkata, India on 12-13 March, 2019. Organized by the Departments of Computer Science & Engineering and A. K. Choudhury School of Information Technology, both from the University of Calcutta, the symposium's international partners were Ca' Foscari University of Venice, Italy and Bialystok University of Technology, Poland. The chapters cover topics such as biometrics, image processing, pattern recognition, algorithms, cloud computing, wireless sensor networks and security systems, reflecting the various symposium sessions.

Cumulated Index Medicus 1988

Environmental Contamination Solutions for Complex

Heterogeneous Systems Ravi Naidu 2023-03-07

Revue Roumaine de Chimie 1980

Reviews in Fluorescence 2005 Chris D. Geddes 2007-12-31 Last year we launched Volume 1 of the Reviews in Fluorescence series. The volume was well-received by the fluorescence community, with many e-mails and letters providing valuable feedback, we subsequently thank you all for your continued support. After the volume was published we were most pleased to learn that the volume is to be citable and indexed, appearing on the ISI database. Subsequently, as well as the series having an impact number in due course, individual chapters will appear on the database and be both citable and keyword searchable. We feel that this will be a powerful resource to both authors and readers, further disseminating leading-edge fluorescence based material. Our intention with this new series is to both disseminate and archive the most recent developments in both past and emerging fluorescence based disciplines. While all chapters are invited, we welcome and indeed encourage the fluorescence community to suggest areas of interest that they feel need to be covered by the series. In this new volume. Reviews in Fluorescence 2005, Volume 2, we have invited reviews in areas such as: Multi-dimensional Time-correlated Single Photon Counting; Fluorescence Correlation Spectroscopy; RNA folding; Lanthanide Probes and Fluorescent Biosensors to name but just a few. We hope you find this volume a useful resource and we look forward to receiving any suggestions you may have. Finally we would like to thank the authors for their timely articles, Caroleann Aitken for the fi-ont cover design, Kadir Asian for typesetting

and Mary Rosenfeld for administrative support.

Role of 6G Wireless Networks in AI and Blockchain-Based

Applications Borah, Malaya Dutta 2023-03-13 Artificial intelligence (AI), the internet of things (IoT), and blockchain provide services to 6G in the form of radio resource management, mobility management, energy management, and network management. Moreover, 6G strengthens AI and blockchain-based applications. Further study on the benefits and potential opportunities of 6G for AI and blockchain is required to utilize the technology successfully. Role of 6G Wireless Networks in AI and Blockchain-Based Applications considers the role of the 6G wireless network deployed on AI and blockchain technology-based applications in fields such as the healthcare industry, agriculture, e-business, and transportation. The book specifically focuses on remote healthcare monitoring, online shopping preference, V2V communication, UAV, holographic application, and augmented and virtual reality as advanced services of 6G networks. Covering topics such as machine learning, smart cities, and virtual reality, this reference work is ideal for computer scientists, policymakers, researchers, scholars, academicians, practitioners, instructors, and students.

Sustainable Solutions for Food Security Atanu Sarkar 2019-01-18

This volume is the first centralized source of technological and policy solutions for sustainable agriculture and food systems resilience in the face of climate change. The editors have compiled a comprehensive collection of the latest tested, replicable green technologies and approaches for food security, including smart crops and new agricultural paradigms, sustainable natural resources management, and strategies for risk assessment and governance. Studies from resource-constrained countries with vulnerable populations are emphasized, with contributions on multisector partnership from development professionals. Debates concerning access to climate-smart technologies, intellectual property rights, and international negotiations on technology transfer are also included. The editors are, respectively, a public health physician, a development professional and an environmental scientist. They bring their varied perspectives together to curate a holistic volume that will be useful for policy makers, scientists, community-based organizations, international organizations and researchers across the world.

Building and Delivering Sustainability Solutions: Insights, Methods, and

Case-Studies Nathaniel K. Newlands 2019-10-18 Sustaining ecosystems to deliver what people need and value, while mitigating and adapting to global climate change and extreme event impacts, presents a complex set of environmental, economic, and social challenges in ensuring resilient and sustainable food production. The Climate Smart Landscape (CSL) approach has emerged as an integrated management strategy to address the increasing pressures on agricultural production, ecosystem conservation, rural livelihoods, climate change mitigation and adaptation. Deploying cheaper, more accurate, and efficient technology enables the harnessing of big data for use in solving sustainability challenges. With improved integrated analytical frameworks, statistical approaches, spatially- explicit models and indices, the CSL approach can be further developed and applied for more resilient, productive, and sustainable ecosystems. This eBook brings together original research, review, hypothesis, theory, and technology report articles, involving 87 authors from 9 countries across Asia, Europe, and North America. These articles present new methodological and technological innovation, findings, and insights across four themes: (1) landscape productivity and crop suitability, (2) variable crop requirements for water and nutrients, (3) crop health status, phenology, and phenotyping, and (4) crop disease assessment and prediction under integrated pest management (IPM).

Diarrhoeal Diseases Research 1991-06

Advanced Fluorescence Reporters in Chemistry and Biology III

Alexander P. Demchenko 2011-03-29 The key element of any fluorescence sensing or imaging technology is the fluorescence reporter, which transforms the information on molecular interactions and

dynamics into measurable signals of fluorescence emission. This book, written by a team of frontline researchers, demonstrates the broad field of applications of fluorescence reporters, starting from nanoscopic properties of materials, such as self-assembled thin films, polymers and ionic liquids, through biological macromolecules and further to living cell, tissue and body imaging. Basic information on obtaining and interpreting experimental data is presented and recent progress in these practically important areas is highlighted. The book is addressed to a broad interdisciplinary audience.

Mathematical Methods in Chemical and Biological Engineering Binay Kanti Dutta 2016-11-03 Mathematical Methods in Chemical and Biological Engineering describes basic to moderately advanced mathematical techniques useful for shaping the model-based analysis of chemical and biological engineering systems. Covering an ideal balance of basic mathematical principles and applications to physico-chemical problems, this book presents examples drawn from recent scientific and technical literature on chemical engineering, biological and biomedical engineering, food processing, and a variety of diffusional problems to demonstrate the real-world value of the mathematical methods. Emphasis is placed on the background and physical understanding of the problems to prepare students for future challenging and innovative applications.

Digital Twins and Healthcare: Trends, Techniques, and Challenges Gaur, Loveleen 2022-11-25 The healthcare industry is starting to adopt digital twins to improve personalized medicine, healthcare organization performance, and new medicine and devices. These digital twins can create useful models based on information from wearable devices, omics, and patient records to connect the dots across processes that span patients, doctors, and healthcare organizations as well as drug and device manufacturers. Digital twins are digital representations of human physiology built on computer models. The use of digital twins in healthcare is revolutionizing clinical processes and hospital management by enhancing medical care with digital tracking and advancing modelling of the human body. These tools are of great help to researchers in studying diseases, new drugs, and medical devices. Digital Twins and Healthcare: Trends, Techniques, and Challenges facilitates the advancement and knowledge dissemination in methodologies and applications of digital twins in the healthcare and medicine fields. This book raises interest and awareness of the uses of digital twins in healthcare in the research community. Covering topics such as deep neural network, edge computing, and transfer learning method, this premier reference source is an essential resource for hospital administrators, pharmacists, medical professionals, IT consultants, students and educators of higher education, librarians, and researchers.

Oswaal NCERT Problems - Solutions (Textbook + Exemplar) Class 12 Chemistry Book (For 2023 Exam) Oswaal Editorial Board This latest offering Oswaal Books is developed by "Oswaal Panel of Experts". Oswaal Books strongly believes in Making Learning Simple. To ensure student friendly yet highly exam-oriented content, we take due care in developing our Panel of Experts. Accomplished teachers with 100+ years of combined experience, Subject Matter Experts with unmatched subject knowledge, dynamic educationists, professionals with keen interest in education and topper students from the length and breadth of the country, together form the coveted Oswaal Panel of Experts. It is with their expertise, guidance and keen eye for details that the content in each offering from Oswaal Books meets highest quality standards. No wonder, Oswaal Books holds an enviable place in every student's heart!

2022-08-09 Chapter wise & topic wise presentation for ease of learning Quick Review for in depth study mind Maps to unlock the imagination and come up with new ideas Know the links R & br>D based links to empower the students with the latest information on the given topic tips & tricks useful guideline for attempting questions in minimum time without any mistake expert advice how to score more suggestions and ideas shared some commonly Made Errors highlight the most common and unidentified mistakes made by students at all levels "

Modern Nanotechnology Junaid Ahmad Malik 2023-08-19 This two-volume set provides a comprehensive overview of modern nanoscience, and encompasses advanced techniques of nanocomposite materials that make their way from the laboratory to the field for the revival of energy and environmental systems in a sustainable manner. It includes the design and the sophisticated fabrication of nanomaterials along with their potential energy and environmental applications, while looking at how nanoscience and nanotechnology can be used to promote environmentally friendly processes and strategies. The books' purpose is to promote eco-friendly methods and techniques by covering many

elements of both the synthesis and uses of nanoparticles and nanofluids for energy and environmental engineering. They provide an up-to-date synthesis of nanocomposite materials for modern nanotechnology applications in the fields of environment protection, heterogeneous catalysis, wastewater treatment, fuel cells, electrochemical energy conversion, and storage applications. The set is designed for environmental scientists, nanotechnologists, chemists, engineers, and individuals seeking current research on nanotechnology and its applications in environmental engineering. Graduate students working in these fields will also find it a valuable resource. Volume 1 focuses on the fundamentals of nanotechnology, environmental protection, sustainable agriculture, bioremediation, bio-nanocomposites, and wastewater treatment.

Bio-based Solutions for Sustainable Development of Agriculture Eduardo V. Soares 2022-11-18

Diarrhoeal Diseases Research 1993-12

Innovative Security Solutions for Information Technology and Communications Giampaolo Bella 2023-05-11 This book constitutes the refereed post-conference proceedings of the 15th International Conference on Innovative Security Solutions for Information Technology and Communications, SecITC 2022, held as a virtual event, during December 8–9, 2022. The 19 revised full papers presented together with 1 invited talk were carefully reviewed and selected from 53 submissions. The papers cover topics such as cryptographic algorithms, digital forensics and cyber security and much more.

Biotechnology: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2019-06-07

Biotechnology can be defined as the manipulation of biological process, systems, and organisms in the production of various products. With applications in a number of fields such as biomedical, chemical, mechanical, and civil engineering, research on the development of biologically inspired materials is essential to further advancement. Biotechnology: Concepts, Methodologies, Tools, and Applications is a vital reference source for the latest research findings on the application of biotechnology in medicine, engineering, agriculture, food production, and other areas. It also examines the economic impacts of biotechnology use. Highlighting a range of topics such as pharmacogenomics, biomedical engineering, and bioinformatics, this multi-volume book is ideally designed for engineers, pharmacists, medical professionals, practitioners, academicians, and researchers interested in the applications of biotechnology.

Communication and Catastrophic Events H. Dan O'Hair 2022-12-13

An authoritative compendium of new research findings and case studies in the application of communication theory during catastrophic events Communicating Science in Times of Crisis: Communication and Catastrophic Events addresses the practical application and research implications of communication theory in the context of man-made and natural catastrophes. Bringing together contributions by leading experts in crisis management and strategic communication, this timely collection of resources links scientific issues with public policy while discussing the challenges and opportunities for using communication to manage extreme events in the evolving media landscape of the 21st century. In this second volume of the Wiley-Blackwell Communicating Science in Times of Crises series, 15 substantial chapters explore a varied range of catastrophic conditions, such as mass violence incidents, disease outbreaks, catastrophic mudslides, cascading and simultaneous disasters, extreme weather events, diffusion of misinformation during crises, students traveling internationally during a global health crisis, and more. Each chapter focuses on a particular issue or concern, revealing the difficult choices that confront academics and practitioners across communication disciplines and presenting original frameworks and models alongside ongoing research programs. Discusses approaches for balancing scientific findings with social and cultural issues Highlights the ability of legacy and digital media to facilitate science in mitigating the effects of adverse events Examines the ethical repercussions of communication during unfolding and unpredictable events Addresses the use of social media communication during a crisis and navigating an increasingly media-savvy society with multiple levels of science literacy Covers key theoretical and practical aspects of the associated fields of risk management and crisis management Available as a standalone book or as part of a two-volume set, Communicating Science in Times of Crisis: Communication and Catastrophic Events is essential reading for scholars, researchers, practitioners, and advanced students in the fields of crisis communication, risk and emergency management, disaster studies, policy management, social media communication, and healthcare

communication.

Exploring the Universe: From Near Space to Extra-Galactic

Banibrata Mukhopadhyay 2018-10-01 This Festschrift dedicated to the 60th birth anniversary of Prof. Sandip K. Chakrabarti, a well-known Indian astrophysicist, presents a collection of contributions by about fifty scientists who work on diverse topics in contemporary astrophysics and space science including new and low-cost balloon borne experiments, planetary science, astrochemistry and the origin of life, ionospheric research and earthquake predictions, relativistic astrophysics around black holes, and finally, the observational signatures and radiative properties of compact objects. All the authors are well known scholars in their respective subject and are all PhD students of Prof. Sandip K. Chakrabarti. The book demonstrates a two-dimensional evolution of research areas triggered by Sandip Chakrabarti over the past few decades. The first dimension represents the evolution and diversification of Chakrabarti's own research in which new students were trained. A second dimension arises from the evolution of the research topics pursued by Chakrabarti's fifty odd doctoral students, many of whom have become renowned scientists in their own right, after starting with a certain subject under Chakrabarti and then migrating to completely new subjects with dexterity. The editors have compiled and edited the articles appropriately to some extent to suit the spirit of this Festschrift on the one hand and to keep balance in diverse topics on the other. Thus this volume also provides an overview for whosoever wishes to enter the important subjects of compact objects, astrochemistry, ionospheric science or space exploration in near space. New graduates, PhD scholars, teachers and researchers will benefit from this volume. Moreover it is a record of tremendous success of a school in a range of vast topics.

Liquid Membranes Vladimir S Kislik 2009-08-31

Liquid Membranes: Principles and Applications in Chemical Separations and Wastewater Treatment discusses the principles and applications of the liquid membrane (LM) separation processes in organic and inorganic chemistry, analytical chemistry, biochemistry, biomedical engineering, gas separation, and wastewater treatment. It presents updated, useful, and systematized information on new LM separation technologies, along with new developments in the field. It provides an overview of LMs and LM processes, and it examines the mechanisms and kinetics of carrier-facilitated transport through LMs. It also discusses active transport, driven by oxidation-reduction, catalytic, and bioconversion reactions on the LM interfaces; modifications of supported LMs; bulk aqueous hybrid LM processes with water-soluble carriers; emulsion LMs and their applications; and progress in LM science and engineering. This book will be of value to students and young researchers who are new to separation science and technology, as well as to scientists and engineers involved in the research and development of separation technologies, LM separations, and membrane reactors. Provides comprehensive knowledge-based information on the principles and applications of a variety of liquid membrane separation processes Contains a critical analysis of new technologies published in the last 15 years

Epidemiological and Molecular Aspects on Cholera T. Ramamurthy

2010-11-08 Though cholera is an ancient disease, its perennial occurrence in several parts of the world has attracted many researchers to find ways and means to combat the disease. The prevailing seventh pandemic cholera is dominating since 1961, but the dimension of the disease has taken several silhouettes, as the genetic structure and functions of the *Vibrio cholerae* has changed to a great extent. Several recent studies have shown that transformation of the pathogen at the molecular level has ameliorated several cholera outbreaks and epidemics of with successive new clones of *V. cholerae*. This comprehensive compilation, written by eminent international researchers reviews the epidemiology of cholera in Africa, Asia, Russia and Latin Americas. The other chapters contributed by acclaimed authors cover various aspects on evolution, polysaccharide biosynthesis, SXT element, integrons, small molecule signalling systems, flagellar synthesis, filamentous phages, pathogenic role of proteases and hemolysin, and other putative virulence factors. In addition, ecology of *V. cholerae* and management of cholera were also discussed in detail. This book will be good source of information to all researchers with interests in infectious diseases, microbiology and molecular biology.

Indian Journal of Public Health 1994

Sensing and Artificial Intelligence Solutions for Food Manufacturing

Daniel Hefft 2023-03-31 This book gives readers a practical introduction into machine learning and sensing techniques, their design and ultimately specific applications that could improve food production. It

shows how these sensing and computing systems are suitable for process implementation in food factories. This book starts by giving the reader an overview of the historic structures of food manufacturing standards and how they defined today's manufacturing. It is followed by a topical introduction for professionals in the food industries in topics such as AI, machine learning, and neural networks. It also includes an explanation of the different sensor systems and their basic principles. It shows how these sensing and computing systems are suitable for process implementation in food factories and what types of sensing systems have already been proven to deliver benefit to the food manufacturing industries. The authors also discuss issues around food safety, labelling, and traceability and how sensing and AI can help to resolve issues. They also use case studies and specific examples that can show the benefit of such technologies compared to current approaches. This book is a practical introduction and handbook for students, food engineers, technologists and process engineers on the benefits and challenges around modern manufacturing systems following Industry 4.0 approaches.

Nature-based Solutions for Resilient Ecosystems and Societies

Shalini Dhyani 2020-07-07 Over the past few decades, the frequency and severity of natural and human-induced disasters have increased across Asia. These disasters lead to substantial loss of life, livelihoods and community assets, which not only threatens the pace of socio-economic development, but also undo hard-earned gains. Extreme events and disasters such as floods, droughts, heat, fire, cyclones and tidal surges are known to be exacerbated by environmental changes including climate change, land-use changes and natural resource degradation. Increasing climate variability and multi-dimensional vulnerabilities have severely affected the social, ecological and economic capacities of the people in the region who are, economically speaking, those with the least capacity to adapt. Climatic and other environmental hazards and anthropogenic risks, coupled with weak and wavering capacities, severely impact the ecosystems and Nature's Contributions to People (NCP) and, thereby, to human well-being. Long-term resilience building through disaster risk reduction and integrated adaptive climate planning, therefore, has become a key priority for scientists and policymakers alike. Nature-based Solutions (NbS) is a cost-effective approach that utilizes ecosystem and biodiversity services for disaster risk reduction and climate change adaptation, while also providing a range of co-benefits like sustainable livelihoods and food, water and energy security. This book discusses the concept of Nature-based Solutions (NbS) - both as a science and as art - and elaborates on how it can be applied to develop healthy and resilient ecosystems locally, nationally, regionally and globally. The book covers illustrative methods and tools adopted for applying NbS in different countries. The authors discuss NbS applications and challenges, research trends and future insights that have wider regional and global relevance. The aspects covered include: landscape restoration, ecosystem-based adaptation, ecosystem-based disaster risk reduction, ecological restoration, ecosystem-based protected areas management, green infrastructure development, nature-friendly infrastructure development in various ecosystem types, agro-climatic zones and watersheds. The book offers insights into understanding the sustainable development goals (SDGs) at the grass roots level and can help indigenous and local communities harness ecosystem services to help achieve them. It offers a unique, essential resource for researchers, students, corporations, administrators and policymakers working in the fields of the environment, geography, development, policy planning, the natural sciences, life sciences, agriculture, health, climate change and disaster studies.

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DIWAKAR EDUCATION HUB 2022-11-30 CUET MA Political Science [PGQP42] Complete Practice Question Answer Sets 3200+[MCQ] (Unit Wise) from Cover All 8 Units MCQ Western Political Philosophy: Modern Indian Political Thought. Political theory International Relations Indian Government and Politics Comparative Government and Politics Public Policies in India General issues of contemporary relevance

Arsenic Toxicity: Challenges and Solutions Nitish Kumar 2021-02-15

Arsenic (As) is a widely distributed element in the environment having no known useful physiological function in plants or animals. Historically, this metalloid has been known to be used widely as a poison. Effects of arsenic have come to light in the past few decades due to its increasing contamination in several parts of world, with the worst situation being in Bangladesh and West Bengal in India. This edited volume brings together

diverse group of environmental science, sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination. The book covers sources of arsenic contamination, and its impact on human health and on prospective remediation both by bioremediation and phytoremediation. Applications of advance techniques such as genetic engineering and nanotechnology are also discussed to resolve the issue of arsenic contamination in ground water and river basins. The book sheds light on this global environmental issue, and proposes solutions to remove contamination through a multi-disciplinary lens and case studies from Bangladesh and India. The book may serve as a reference to environment and sustainability researchers, students and policy makers. It delivers an outline to graduate, undergraduate students and researchers, as well as academicians who are working on arsenic toxicity with respect to remediation and health issues.

Diarrhoeal Diseases Research 1991-06

Optofluidics 2015 Shih-Kang Fan 2018-07-04 This book is a printed edition of the Special Issue "Optofluidics 2015" that was published in *Micromachines*

Fine Particles in Medicine and Pharmacy Egon Matijević 2011-09-18 Pharmaceutical manufacture is very exacting - for example, drugs must be uniform in size, shape, efficacy, bioavailability, and safety. The presence of different polymorphs in drug production is a serious problem, since different polymorphs differ in bioavailability, solubility, dissolution rate, chemical and physical stability, melting point, color, filterability, density, and flow properties. *Fine Particles in Medicine and Pharmacy* discusses particle size, shape, and composition and how they determine the choice of polymorph of a drug.

Artificial Intelligence for Cognitive Modeling Pijush Dutta 2023-04-19 This book is written in a clear and thorough way to cover both the traditional and modern uses of artificial intelligence and soft computing. It gives an in-depth look at mathematical models, algorithms, and real-world problems that are hard to solve in MATLAB. The book is intended to provide a broad and in-depth understanding of fuzzy logic controllers, genetic algorithms, neural networks, and hybrid techniques such as ANFIS and the GA-ANN model. Features: A detailed description of basic intelligent techniques (fuzzy logic, genetic algorithm and neural network using MATLAB) A detailed description of the hybrid intelligent technique called the adaptive fuzzy inference technique (ANFIS) Formulation of the nonlinear model like analysis of ANOVA and response surface methodology Variety of solved problems on ANOVA and RSM Case studies of above mentioned intelligent techniques on the different process control systems This book can be used as a handbook and a guide for students of all engineering disciplines, operational research areas, computer applications, and for various professionals who work in the optimization area.

The Routledge Handbook of Critical Public Relations Jacquie L'Etang 2015-08-11 Critical theory has a long history, but a relatively recent intersection with public relations. This ground-breaking collection engages with commonalities and differences in the traditions, whilst encouraging plural perspectives in the contemporary public relations field. Compiled by a high-profile and widely respected team of academics and bringing together other key scholars from this field and beyond, this unique international collection marks a major stage in the evolution of critical public relations. It will increasingly influence how critical theory informs public relations and communication. The collection takes stock of the emergence of critical public relations alongside diverse theoretical traditions, critiques and actions, methodologies and future implications. This makes it an essential reference for public relations researchers, educators and students around a world that is becoming more critical in the face of growing inequality and environmental challenges. The volume is also of interest to scholars in advertising, branding, communication, consumer studies, cultural studies, marketing, media studies, political communication and sociology.

Diarrhoeal Diseases Research 1992

Rising Threats in Expert Applications and Solutions Vijay Singh Rathore 2020-10-01 This book presents high-quality, peer-reviewed papers from the FICR International Conference on Rising Threats in Expert Applications and Solutions 2020, held at IIS University Jaipur, Rajasthan, India, on January 17-19, 2020. Featuring innovative ideas from researchers, academics, industry professionals and students, the book covers a variety of topics, including expert applications and artificial intelligence/machine learning; advanced web technologies, like IoT, big data, and cloud computing in expert applications; information and cybersecurity threats and solutions; multimedia applications in forensics,

security and intelligence; advances in app development; management practices for expert applications; and social and ethical aspects of expert applications in applied sciences.

New Frontiers of Cardiovascular Screening using Unobtrusive

Sensors, AI, and IoT Anirban Dutta Choudhury 2022-07-09 *New Frontiers of Cardiovascular Screening using Unobtrusive Sensors, AI, and IoT* provides insights into real-world problems in cardiovascular disease screening that can be addressed via AI, IoT and wearable based sensing. Non-Communicable Diseases (NCD) are surpassing CDS and emerging as the foremost cause of death. Hence, early screening of CVDs using wearable and other similar sensors is an extremely important global problem to solve. The digital health field is constantly changing, and this book provides a review of recent technology developments, offering unique coverage of processing time series physiological sensor data. The authors have developed this book with graduate and post graduate students in mind, making sure they provide an accessible entry point into the field. This book is particularly useful for engineers and computer scientists who want to build technologies that work in real world scenarios as it provides a practitioner's view/insights /tricks of the trade. Finally, this book helps researchers working on this important problem to quickly ramp up their knowledge and research to the state-of-the-art. Maps digital health technology to real diseases that are relevant to the medical community Supported with patient data and case studies Gives practitioners insights into the real-world implementation of signal conditioning, signal processing and machine learning

eHealth 360° Kostas Giokas 2016-11-29 This book constitutes the proceedings of the International Summit on Electronic Healthcare, eHealth 360°, held in Budapest, Hungary, in June 2016. The 55 revised full papers presented along with 9 short papers were carefully reviewed and selected from 81 submissions. The papers represent the latest results from the co-located conferences as the track on games for wellbeing, the track on wearables in healthcare, the track on personal, pervasive and mobile health, the track on IoT and big data technologies for healthcare, the track on mobile medical multimedia technologies, applications and services and the track on ambient assisted living technologies based on IoT.

Small Millets And Pseudo Cereals For Nutritional And Health

Security Gopal Kumar Sharma 2022-11-16 The prime focus of this book titled 'Small Millets and Pseudo Cereals for Nutritional and Health Security' is to present systematically the importance as well as critical research carried out across the world on these climate complaint crops, their origin, cultivation methods, pre and post-harvest information, processing, chemical composition nutritional composition, physico-chemical characteristics, processing technology, health promoting attributes, traditional and modern foods to scientific fraternity, student community and general public. The book will be highly useful to common consumer also for making nutritious food of choice. The 20 chapters in this book have been authored by reputed contributors having in-depth knowledge of their specialization from government, industry and academia. This book will be an essential reference for researchers, academicians, students for research and development activities as well as government officials and policy makers to address the issue of malnutrition in rural areas. This book will certainly drive future research in unexplored areas of traditional foods based on nutri cereals and pseudo cereals.

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