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Bioengineering and Biomedical Signal and Image Processing

First International Conference, BIOMESIP 2021, Meloneras, Gran Canaria, Spain, July 19-21, 2021, Proceedings

Springer Nature This book constitutes the refereed proceedings of the First International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19.

Engaged Fatherhood for Men, Families and Gender Equality

Healthcare, Social Policy, and Work Perspectives

Springer Nature This aim of this open access book is to launch an international, cross-disciplinary conversation on fatherhood engagement. By integrating perspective from three sectors -- Health, Social Policy, and Work in Organizations -- the book offers a novel perspective on the benefits of engaged fatherhood for men, for families, and for gender equality. The chapters are crafted to engaged broad audiences, including policy makers and organizational leaders, healthcare practitioners and fellow scholars, as well as families and their loved ones.

Climate Change and Adaptation Strategies for Human Health

Steinkopff The book represents the results of the cCASHh study that was carried out in Europe (2001-2004), co-ordinated by WHO and supported by EU Programmes. The flood events in 2002 and the heat wave of August 2003 in Europe had given evidence in a rather drastic way of our vulnerability and our non preparedness. The project has produced very important results that show that the concurrent work of different disciplines in addressing public health issues can produce innovative and useful results, providing an approach that can be followed on other public health issues. The project has shown that information on potential threats can be extremely useful in preparing the public for adverse events as well as facilitating the response when the events occur. This is a new dimension for public health which reverses the traditional thinking: from identifying and reducing specific risk factors, to taking action on the basis of prediction and early warning to prevent health consequences in large populations.

Intrusion Alarm Systems

Prevention and Treatment of Atherosclerosis

Improving State-of-the-Art Management and Search for Novel Targets

Springer Nature

Mechanical Design Engineering Handbook

Butterworth-Heinemann Mechanical Design Engineering Handbook is a straight-talking and forward-thinking reference covering the design, specification, selection, use and integration of machine elements fundamental to a wide range of engineering applications. Develop or refresh your mechanical design skills in the areas of bearings, shafts, gears, seals, belts and chains, clutches and brakes, springs, fasteners, pneumatics and hydraulics, amongst other core mechanical elements, and dip in for principles, data and calculations as needed to inform and evaluate your on-the-job decisions. Covering the full spectrum of common mechanical and machine components that act as building blocks in the design of mechanical devices, *Mechanical Design Engineering Handbook* also includes worked design scenarios and essential background on design methodology to help you get started with a problem and repeat selection processes with successful results time and time again. This practical handbook will make an ideal shelf reference for those working in mechanical design across a variety of industries and a valuable learning resource for advanced students undertaking engineering design modules and projects as part of broader mechanical, aerospace, automotive and manufacturing programs. Clear, concise text explains key component technology, with step-by-step procedures, fully worked design scenarios, component images and cross-sectional line drawings all incorporated for ease of understanding. Provides essential data, equations and interactive ancillaries, including calculation spreadsheets, to inform decision making, design evaluation and incorporation of components into overall designs. Design procedures and methods covered include references to national and international standards where appropriate.

Eat Drink Wear Yoga Pants

Funny 6 X 9 Inch Blank Cook Book 120 Pages

Looking for a funny cookbook? This is the perfect gift for you.

Principles of Nutrigenetics and Nutrigenomics

Fundamentals of Individualized Nutrition

Academic Press Principles of Nutrigenetics and Nutrigenomics: Fundamentals for Individualized Nutrition is the most comprehensive foundational text on the complex topics of nutrigenetics and nutrigenomics. Edited by three leaders in the field with contributions from the most well-cited researchers conducting groundbreaking research in the field, the book covers how the genetic makeup influences the response to foods and nutrients and how nutrients affect gene expression. *Principles of Nutrigenetics and Nutrigenomics: Fundamentals for Individualized Nutrition* is broken into four parts providing a valuable overview of genetics, nutrigenetics, and nutrigenomics, and a conclusion that helps to translate research into practice. With an overview of the background, evidence, challenges, and opportunities in the field, readers will come away with a strong understanding of how this new science is the frontier of medical nutrition. *Principles of Nutrigenetics and Nutrigenomics: Fundamentals for Individualized Nutrition* is a valuable reference for students and researchers studying nutrition, genetics, medicine, and related fields. Uniquely foundational, comprehensive, and systematic approach with full evidence-based coverage of established and emerging topics in nutrigenetics and nutrigenomics. Includes a valuable guide to ethics for genetic testing for nutritional advice. Chapters include definitions, methods, summaries, figures, and tables to help students, researchers, and faculty grasp key concepts. Companion website includes slide decks, images, questions, and other teaching and learning aids designed to facilitate communication and comprehension of the content presented in the book.

Medical Virology 8

Springer Science & Business Media Proceedings of an international symposium in San Francisco, September 1988. The 13 papers consider viruses not only as pathogens, but also as models for research on biological processes in higher organisms and as vehicles for carrying out protective or curative therapies. Topics include new approaches to testing for various viruses, the molecular epidemiology of Epstein-Barr virus, prospects for vaccines, and HIV1/AIDS in terms of statistics of the epidemic and interactions with other viruses. Another 45 papers are represented by one-page abstracts. Annotation copyrighted by Book News, Inc., Portland, OR

Pandemic Outbreaks in the 21st Century

Epidemiology, Pathogenesis, Prevention, and Treatment

Elsevier In the past two decades, several pandemics have ravaged the globe, giving us several lessons on infectious disease epidemiology, the importance of initial detection and characterization of outbreak viruses, the importance of viral epidemic prevention

steps, and the importance of modern vaccines. *Pandemic Outbreaks in the Twenty-First Century: Epidemiology, Pathogenesis, Prevention, and Treatment* summarizes the improvements in the 21st century to overcome / prevent / treat global pandemic with future prospective. Divided into 9 chapters, the book begins with an in-depth introduction to the lessons learned from the first pandemic of the 21st century. It describes the history, present and future in terms of detection, prevention and treatment. Followed by chapters on the outbreak, treatment strategies and clinical management of several infectious diseases like MERS, SARS and COVID 19, *Pandemic Outbreaks in the Twenty-First Century: Epidemiology, Pathogenesis, Prevention, and Treatment*, presents chapters on immunotherapies and vaccine technologies to combat pandemic outbreak and challenges. The book finishes with a chapter on the current knowledge and technology to control pandemic outbreaks. All are presented in a practical short format, making this volume a valuable resource for very broad academic audience. Provides insight to the lessons learned from past pandemics Gives recommendations, future direction in terms of detection, prevention and treatment of pandemics Guides readers through the status and recent developments of vaccines to overcome or prevent pandemics Shows how to enhance the host innate immunity in infectious diseases Includes a chapter on immunotherapies to combat pandemic outbreaks

World Intellectual Property Indicators 2019

WIPO This authoritative report analyzes IP activity around the globe. Drawing on 2018 filing, registration and renewals statistics from national and regional IP offices and WIPO, it covers patents, utility models, trademarks, industrial designs, microorganisms, plant variety protection and geographical indications. The report also draws on survey data and industry sources to give a picture of activity in the publishing industry.

Woldman's Engineering Alloys

ASM International Annotation New edition of a reference that presents the values of properties typical for the most common alloy processing conditions, thus providing a starting point in the search for a suitable material that will allow, with proper use, all the necessary design limitations to be met (strength, toughness, corrosion resistance and electronic properties, etc.) The data is arranged alphabetically and contains information on the manufacturer, the properties of the alloy, and in some cases its use. The volume includes 32 tables that present such information as densities, chemical elements and symbols, physical constants, conversion factors, specification requirements, and compositions of various alloys and metals. Also contains a section on manufacturer listings with contact information. Edited by Frick, a professional engineering consultant. Annotation c. Book News, Inc., Portland, OR (booknews.com).

Personalised Medicine

Lessons from Neurodegeneration to Cancer

Springer The mammalian genome is constantly challenged by exogenous and endogenous threats. Although much is known about the mechanisms that maintain genome integrity, little is known about the applications of this knowledge to combat human disease. The past 20 years has witnessed extensive research and progress in this area and scientists started to design new therapies harnessing individual genetic differences among patients to combat degenerative disorders and cancer. We summarize these advancements and discuss perspectives for the future of personalized medicine.

Taking an Exposure History

Advances in Visual Informatics

5th International Visual Informatics Conference, IVIC 2017, Bangi, Malaysia, November 28–30, 2017, Proceedings

Springer This book constitutes the refereed proceedings of the 5th International Conference on Advances in Visual Informatics, IVIC 2017, held in Bangi, Malaysia, in November 2017. The keynote and 72 papers presented were carefully reviewed and selected from 130 submissions. The papers are organized in the following topics: Visualization and Data Driven Technology; Engineering and Data Driven Innovation; Data Driven Societal Well-being and Applications; and Data Driven Cyber Security.

International Farm Animal, Wildlife and Food Safety Law

Springer This volume is an inspiring and breakthrough piece of academic scholarship and the first of its kind featuring a comprehensive reader-friendly approach to teach the intricacies of the various aspects of international farm animal, wildlife conservation, food safety and environmental protection law. The selected focus areas are grouped in sections, such as agrobiodiversity, fishing and aquaculture, pollinators and pesticides, soil management, industrial animal production and transportation, and international food trade. Farm animal welfare, environmental protection, biodiversity conservation, and food safety

are the core of the selected chapters. Every chapter provides real-world examples to make the complex field easy to understand. With its systematic approach, this book is devoted to anyone interested in the subject, becomes a valuable resource for professionals working in food regulation, and provides a solid foundation for courses and master's programs in animal law, environmental policy, food and agriculture law, and regulation of these subjects around the world. Through its emphasis on sustainable food production, this work offers a cutting-edge selection of evolving topics at the heart of the pertinent discourse. As one of its highlights, this book also provides "Tools for Change," a unique compilation and analysis of laws from the major farm animal product trading nations. With these tools, practitioners, advocates, policy makers and other state-holders are equipped with information to start work toward improving farm animal welfare, wildlife conservation, and food safety through the use of law and policy.

Predictive Intelligence in Medicine

4th International Workshop, PRIME 2021, Held in Conjunction with MICCAI 2021, Strasbourg, France, October 1, 2021, Proceedings

Springer Nature This book constitutes the proceedings of the 4th International Workshop on Predictive Intelligence in Medicine, PRIME 2021, held in conjunction with MICCAI 2021, in Strasbourg, France, in October 2021.* The 25 papers presented in this volume were carefully reviewed and selected for inclusion in this book. The contributions describe new cutting-edge predictive models and methods that solve challenging problems in the medical field for a high-precision predictive medicine. *The workshop was held virtually.

Toxicological profile for phenol

Directory of Publishing 2011

United Kingdom and The Republic of Ireland

A&C Black Comprehensive trade directory of the UK publishing industry and allied book trade suppliers, associations and services.

Bone Morphogenetic Proteins: Systems Biology Regulators

Springer This book focuses on the salient features of the biology of Bone Morphogenetic Proteins and the advances in our understanding of their structure and function and of downstream signaling, as well as their governance in systems biology from bone and dentin to kidney, cancer, diabetes, iron homeostasis and angiogenesis, including rare musculoskeletal disorders. BMPs, also referred to as growth and differentiation factors, are members of the TGF-beta superfamily and are highly conserved from fruit flies to mammals and are responsible for the formation of practically every organ during embryo development and involved in adult tissue injury and repair. BMPs establish their extracellular gradient by interacting with their respective antagonists and regulate their function through SMAD-dependent down-stream signaling effector genes. This volume is aimed at scientists and professionals dealing with metabolic disorders, nutrition, systems biology diseases, rare musculoskeletal conditions, and disorders related to iron metabolism, including anemia of chronic disease, hereditary hemochromatosis and beta thalassemia.

Toxicological Profile for Benzene

Air Emissions from Animal Feeding Operations

Current Knowledge, Future Needs

National Academies Press Air Emissions from Animal Feeding Operations: Current Knowledge, Future Needs discusses the need for the U.S. Environmental Protection Agency to implement a new method for estimating the amount of ammonia, nitrous oxide, methane, and other pollutants emitted from livestock and poultry farms, and for determining how these emissions are dispersed in the atmosphere. The committee calls for the EPA and the U.S. Department of Agriculture to establish a joint council to coordinate and oversee short - and long-term research to estimate emissions from animal feeding operations accurately and to develop mitigation strategies. Their recommendation was for the joint council to focus its efforts first on those pollutants that pose the greatest risk to the environment and public health.

Make

3D Printing

Make Books Provides a guide to three-dimensional printers, covering such topics as how to choose the right printer, finding the appropriate software, and includes a showcase of printed projects.

New Methodologies and Techniques for a Sustainable Organic Chemistry

Springer Science & Business Media Chemical industries have to face the challenge of finding adequate processes to produce large quantities of new products, while at the same time decreasing both the impact on the environment and the risk of disaster. This book addresses this challenge. It discusses the problems of environmentally benign organic processes on an interdisciplinary approach. The book features experts in selective catalysis, development of new reagents and methods who present their recent results.

Biological Basis of Alcohol-Induced Cancer

Springer In the recent years, a significant amount of research has emerged connecting the link between alcohol and cancer. The field has rapidly advanced, especially since the complex connection between alcohol and cancer has several unique sub areas that are being investigated. This proceedings volume will contain chapters based upon the presentation of the 2nd International Conference on Alcohol and Cancer in Colorado, 2013. The various topics explore the affects of alcohol on: liver and breast cancer; cell signaling and cancer; stem cells; biomarkers and metabolomics; aerodigestive cancers; cancer and the immune system and more.

Banff, Jasper and Glacier National Parks

Lonely Planet Lonely Planet expands its national parks series with a new guide to the jewels of the Canadian Rockies, Banff and Jasper National Parks. The book offers advice on the best sights, hikes, campgrounds and more. Packed with outdoor activities and places to stay and eat, the national parks guides help everyone-from road-tripping families to serious outdoor enthusiasts-plan and enjoy an unforgettable vacation. Banff, Glacier & Jasper National Parks explores regions of spectacular beauty with some of the world's best scenery, climbing, hiking and skiing. The parks offer jagged, snowcapped mountains, peaceful valleys, rushing rivers, natural hot springs, alpine forests and pristine lakes. With abundant wildlife, a wealth of activity options and the amenities of resort towns like Banff and Lake Louise, these parks are truly national treasures, and this guide will help travellers make the most of their visit.

Microbial Biotechnology

Volume 2. Application in Food and Pharmacology

Springer This edited book, is a collection of 25 chapters describing the recent advancements in the application of microbial technology in the food and pharmacology sector. The main focus of this book is application of microbes, food preservation techniques utilizing microbes, probiotics, seaweeds, algae, enzymatic abatement of urethane in fermentation of beverages, bioethanol production, pesticides, probiotic biosurfactants, drought tolerance, synthesis of application of oncolytic viruses in cancer treatment, microbe based metallic nanoparticles, agro chemicals, endophytes, metabolites, antibiotics etc. This book highlighted the significant aspects of the vast subject area of microbial biotechnology and their potential applications in food and pharmacology with various topics from eminent experts around the World. This book would serve as an excellent reference book for researchers and students in the Food Science, Food Biotechnology, Microbiology and Pharmaceutical fields.

Introduction to Radar Using Python and MATLAB

Artech House This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section measurement techniques are covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target discrimination.

Toxicological Profile for Lead

Early Word Learning

Routledge Early Word Learning explores the processes leading to a young child learning words and their meanings. Word learning is here understood as the outcome of overlapping and interacting processes, starting with an infant's learning of native speech sounds to segmenting proto-words from fluent speech, mapping individual words to meanings in the face of natural variability and uncertainty, and developing a structured mental lexicon. Experts in the field review the development of early lexical acquisition from empirical, computational and theoretical perspectives to examine the development of skilled word learning as the outcome of a process that begins even before birth and spans the first two years of life. Drawing on cutting-edge research in infant eye-tracking, neuroimaging techniques and computational modelling, this book surveys the field covering both established results and the most recent advances in word learning research. Featuring chapters from international experts whose research approaches the topic from these diverse perspectives using different methodologies, this book provides a comprehensive yet coherent and unified representation of early word learning. It will be invaluable for both undergraduate and postgraduate courses in early language development as well as being of interest to researchers interested in lexical development.

Precision Nutrition and Metabolic Syndrome Management

Precision Nutrition and Metabolic Syndrome Management.

Atherosclerosis: Diet and Drugs

Springer Science & Business Media Cardiovascular diseases continue to be the leading cause of death in the majority of industrialized countries. The most frequent underlying pathology, namely atherosclerosis, and its clinical sequelae, namely coronary heart disease, cerebrovascular disease and peripheral artery disease, remain common although for a long time we have been made aware of avoidable or modifiable etiological factors such as smoking, fat-rich diet or lack of exercise, and although these adverse lifestyle factors have been extensively addressed by population-wide primary prevention programs. Cardiovascular morbidity and mortality also remain high despite successful anti-hypertensive and lipid lowering drug therapies which help to reduce cardiovascular morbidity and mortality by about 30% in both secondary and tertiary prevention settings. This can partly be explained by the increasing life expectancy and growing proportion of elderly people, especially in Europe and North America. In addition, the World Health Organization makes the alarming prediction that probably in response to the spreading of western dietary behavior and lack of exercise resulting in an increasing prevalence of diabetes, dyslipidemia and hypertension, cardiovascular diseases rather than infectious diseases will become the most frequent cause of death worldwide. This volume of the Handbook of Experimental Pharmacology entitled "Atherosclerosis" is divided into four parts and intends to give an overview on the pathogenesis of atherosclerosis, established treatment and prevention regimen, and of perspectives for the development of new treatment modalities.

Genetics and Genomics of Setaria

Springer *Setaria viridis* and *S. italica* make up a model grass system to investigate C4 photosynthesis, cell wall biosynthesis, responses to drought, herbicide, and other environmental stressors, genome dynamics, developmental genetics and morphology, and interactions with microorganisms. *Setaria viridis* (green foxtail) is one of the world's most widespread weeds, and its small size, native variation, rapidly burgeoning genetic and genomic resources, and transformability are making it the system of choice for both basic research and its translation into crop improvement. Its domesticated variant, *S. italica* (foxtail millet), is a drought-hardy cereal grown in China, India and Africa, and new breeding techniques show great potential for improving yields and nutrition for drought-prone regions. This book brings together for the first time evolutionary, genomic, genetic, and morphological analyses, together with protocols for growing and transforming *Setaria*, and approaches to high throughput genotyping and candidate gene analysis. Authors include major *Setaria* researchers from both the USA and overseas.

Nidotherapy

Harmonising the Environment with the Patient

Cambridge University Press With universal application, nidotherapy is a treatment and a set of principles both fully explained in this comprehensive guide.

Natural Language Processing and Information Systems

24th International Conference on Applications of Natural Language to Information Systems, NLDB 2019, Salford, UK, June 26-28, 2019, Proceedings

This book constitutes the refereed proceedings of the 24th International Conference on Applications of Natural Language to Information Systems, NLDB 2019, held in Salford, UK, in June 2019. The 21 full papers and 16 short papers were carefully reviewed and selected from 75 submissions. The papers are organized in the following topical sections: argumentation mining and applications; deep learning, neural languages and NLP; social media and web analytics; question answering; corpus analysis; semantic web, open linked data, and ontologies; natural language in conceptual modeling; natural language and ubiquitous computing; and big data and business intelligence.

Toxicological Profile for Cresols

Toxicological Profile for Ethylene Glycol and Propylene Glycol

Encyclopedia of Behavioral Medicine

MAKE

Ultimate Guide to 3D Printing

Make Books Reviews fifteen 3D printers, including scores on ease of use, machine software, print quality, and accuracy.

Ecological Law and the Planetary Crisis

A Legal Guide for Harmony on Earth

Routledge This book uses a transdisciplinary systems approach to examine how Earth's human-caused ecological crisis arose and presents a new legal approach for overcoming it. Ecological Law and the Planetary Crisis first examines how the history of humanity's social metabolism, along with the history of human inventions and ideas, led to the human-Earth dilemma we see today and explains why contemporary law is inadequate for confronting this dilemma. The book goes on to propose ecological law—law that maintains human activity within ecological limits such as planetary boundaries while ensuring social justice and equity—as an essential element of an urgently needed radical pathway of change toward a perpetual, mutually enhancing human-Earth relationship. Finally, it offers a systems-based analytical tool for organizing actions to promote the transition from environmental to ecological law. Increasing the visibility, clarity and development of ecological law, this book will be of great interest to students and scholars of ecological and environmental law and governance.