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Teaching Pearls in Noninvasive Mechanical Ventilation - Antonio M. Esquinas 2022

This book uses real-world clinical case analyses of hot topics to provide insights into noninvasive

mechanical ventilation (NIV). Written by leading international teachers and experts, it features a selection of "major controversial topics in clinical practice" and demonstrates how these

cases can be used to teach about NIV. It then presents a discussion of the topics in various scenarios (anesthesiology, critical care, emergency and pneumology). The chapters allow readers to develop a case-by-case understanding of NIV in acute and chronic respiratory disorders, and perioperative and in intensive care patients, also thanks to Electronic Supplementary Materials. Lastly the authors summarize five key points / recommendations. This book is an attractive resource also for universities/ educational seminars/ national and international postgraduate courses and hot-topics sessions at national/international congresses.

Lifelong Learning and Education in Healthy and Sustainable Cities - U.M. Azeiteiro 2017-11-27

This book presents essential insights into lifelong learning and education in healthy and sustainable cities, providing a basis for strategies to help achieve the 2030 Agenda sustainable development and health promotion

goals. The interface between environment, health and lifelong learning is fundamental to attaining these goals, and as such, the book gathers interdisciplinary reflections from researchers, educators and other experts concerning the links between environmental quality, human health, human education and well-being, and addressing inequality, unplanned urbanization, migration, lifestyles, and consumption and production patterns. Topics include: Urban planning to address inequality in health and urban poverty; Healthy cities and healthy environments; Governance for sustainable development; Social determinants of health oriented on sustainable development goals; Education and lifelong learning for sustainability; Energy security, access and efficiency; Sustainable cities, buildings and infrastructure.

Abdominal-Pelvic MRI - Richard C. Semelka 2011-09-26

This landmark reference provides the most

complete coverage of magnetic resonance imaging of the abdomen and pelvis, with particular emphasis on illustrating benign, malignant, and inflammatory lesions. Organized by anatomic region, the text presents brief descriptions of pathophysiology followed by detailed discussion of characteristics of the relevant organ or system. Extensively updated and revised throughout, the new third edition includes over 2,500 figures, of which more than 500 are all-new, including over 200 3T images presented throughout the organ systems. Two all-new chapters are also included, one discussing MRI in pregnancy, and another on MRI of the Breast.

Models of Emergency Psychiatric Services That Work - Mary Jo Fitz-Gerald 2020-08-27

This book describes a spectrum of possible solutions to providing comprehensive emergency psychiatric care. It discusses in detail all components of emergency psychiatric care, such as triage, security, management of suicide risk,

violent patients, interdisciplinary treatment teams, administration, and telepsychiatry. It has been written by and is of interest to psychiatrists, emergency medicine physicians, nurses, social workers, administrators, the police and security staff.

International Joint Conference SOCO'17-CISIS'17-ICEUTE'17 León, Spain, September 6-8, 2017, Proceeding - Hilde Pérez García 2017-08-21

This volume includes papers presented at SOCO 2017, CISIS 2017, and ICEUTE 2017, all conferences held in the beautiful and historic city of León (Spain) in September 2017. Soft computing represents a collection of computational techniques in machine learning, computer science, and some engineering disciplines, which investigate, simulate, and analyze highly complex issues and phenomena. These proceedings feature 48 papers from the 12th SOCO 2017, covering topics such as artificial intelligence and machine learning

applied to health sciences; and soft computing methods in manufacturing and management systems. The book also presents 18 papers from the 10th CISIS 2017, which provided a platform for researchers from the fields of computational intelligence, information security, and data mining to meet and discuss the need for intelligent, flexible behavior by large, complex systems, especially in mission-critical domains. It addresses various topics, like identification, simulation and prevention of security and privacy threats in modern communication networks. Furthermore, the book includes 8 papers from the 8th ICEUTE 2017. The selection of papers for all three conferences was extremely rigorous in order to maintain the high quality and we would like to thank the members of the Program Committees for their hard work in the reviewing process.

Nutraceutical and Functional Food Components

- Charis M. Galanakis 2021-10-24

Nutraceutical and Functional Food Components:

Effects of Innovative Processing Techniques, Second Edition highlights the impact of recent food industry advances on the nutritional value, functional properties, applications, bioavailability, and bioaccessibility of food components. This second edition also assesses shelf-life, sensory characteristics, and the profile of food products. Covering the most important groups of food components, including lipids, proteins, peptides and amino acids, carbohydrates, dietary fiber, polyphenols, carotenoids, vitamins, aromatic compounds, minerals, glucosinolates, enzymes, this book addresses processing methods for each. Food scientists, technologists, researchers, nutritionists, engineers and chemists, agricultural scientists, other professionals working in the food industry, as well as students studying related fields, will benefit from this updated reference. Focuses on nutritional value, functional properties, applications, bioavailability and bioaccessibility of food

components Covers food components by describing the effects of thermal and non-thermal technologies Addresses shelf-life, sensory characteristics and health claims

Handbook of Grape Processing By-Products

- Charis Michel Galanakis 2017-03-27

Handbook of Grape Processing By-Products explores the alternatives of upgrading production by-products, also denoting their industrial potential, commercial applications and sustainable solutions in the field of grape valorization and sustainable management in the wine industry. Covering the 12 top trending topics of winery sustainable management, emphasis is given to the current advisable practices in the field, general valorization techniques of grape processing by-products (e.g. vermi-composting, pyrolysis, re-utilization for agricultural purposes etc.), the newly introduced biorefinery concept, different techniques for the separation, extraction, recovery and formulation of polyphenols, and finally, the healthy

components of grape by-products that lead to target applications in the pharmaceutical, enological, food and cosmetic sectors. Presents in-depth information on grape processing Addresses the urgent need for sustainability within wineries Reveals the opportunities of reutilizing processing by-products in profitable ways Explores general valorization methods and separation and extraction methods for the recovery of high added-value extracts/compounds and their transformation to final products

Pediatric ENT Infections - Cemal Cingi

2021-11-19

The book provides a comprehensive and up-to-date overview of pediatric ENT infections. It brings together the experience of authors from more than 30 countries and aims to provide a broader understanding of the prevention and treatment of infectious diseases in children, that will likely lead to improve their health globally. In addition to new infections like COVID-19, the

work reviews the latest treatments modalities. The list of topics ranges from basic to very advanced and the book will be therefore an invaluable resource for ENT and pediatrics trainees and students, as well as for experienced practitioners in these fields.

Gahart's 2021 Intravenous Medications - E-Book - Betty L. Gahart 2020-06-02

The essential information you need to safely administer more than 400 intravenous drugs! For over 45 years, Gahart's 2021 Intravenous Medications: A Handbook for Nurses and Health Professionals has been a trusted resource for comprehensive drug coverage, unparalleled accuracy, and an intuitive quick-access format. In addition to updated drug interactions, precautions, alerts, and patient teaching instructions for all existing IV drugs, this new 37th edition includes more than a dozen new monographs of the most recent IV drugs to be approved by the FDA. Administering intravenous drugs is a critical task — inaccurate or out-of-

date information is not an option. Known as the #1 IV drug handbook on the market, Gahart's annual publication, with its history of impeccable accuracy, gives you the extra confidence and guidance you need to safely and effectively treat patients. Monographs on more than 400 IV drugs offers an impressive breadth of coverage that goes well beyond any comparable drug reference. Updated annual publication prevents you from referencing outdated information. Additional drug monographs are housed on the companion Evolve website. A 45-year history of impeccable accuracy reinforces the importance of safe IV drug administration. The perfect depth of information equips you with everything that is needed by today's clinicians for safe administration of IV drugs — nothing more, nothing less. Proven, clinically optimized format keeps all dosage information for each drug on either a single page or a two-page spread to prevent hand contamination by having to turn a

page. Highlighted Black Box Warnings and relevant content make locating critical information fast and easy. Special circumstances in blue-screened text call attention to important circumstances that may not warrant Black Box Warnings. Life stage dosage variances are highlighted for geriatric, pediatric, infant, and neonatal patients. Dilution and dosage charts within monographs provide quick access to essential clinical information. Convenient, alphabetical format organizes all drug monographs by generic name, allowing you to find any drug in seconds. NEW! Drug monographs for 19 newly approved drugs by the FDA provides you with the most current drug information. Updates on drug interactions, precautions, alerts, and more have been made throughout the guide to reflect all changes to existing medications.

Guide to Microforms in Print - 2001

Combined Membership List of the American

Mathematical Society, Mathematical Association of America, and the Society for Industrial and Applied Mathematics - American Mathematical Society 2003

Intelligent Data Engineering and Automated Learning – IDEAL 2018 - Hujun Yin 2018-11-08
This two-volume set LNCS 11314 and 11315 constitutes the thoroughly refereed conference proceedings of the 19th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2018, held in Madrid, Spain, in November 2018. The 125 full papers presented were carefully reviewed and selected from 204 submissions. These papers provided a timely sample of the latest advances in data engineering and automated learning, from methodologies, frameworks and techniques to applications. In addition to various topics such as evolutionary algorithms, deep learning neural networks, probabilistic modelling, particle swarm intelligence, big data analytics, and

applications in image recognition, regression, classification, clustering, medical and biological modelling and prediction, text processing and social media analysis.

Hybrid Artificial Intelligent Systems - Pablo García Bringas

This book constitutes the refereed proceedings of the 17th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2022, held in Salamanca, Spain, in September 2022. The 43 full papers and 0 short papers presented in this book were carefully reviewed and selected from 67 submissions. They were organized in topical sections as follows: bioinformatics; data mining and decision support systems; deep learning; evolutionary computation; HAIS applications; image and speech signal processing; and optimization techniques.

Acta cybernetica - 1999

Intra- and Inter-individual Variability of Executive Functions: Determinant and

Modulating Factors in Healthy and Pathological Conditions - Sarah E.

MacPherson 2019-08-02

This eBook attempts to unify the contributions of different research groups investigating the sources of variability in executive functions, discussing the most recent developments and integrating the knowledge accumulated across different fields. It consists of a compilation of empirical, theoretical and review articles studying executive functions in both clinical and healthy human populations. Some of the key influences on intra- and inter-variability in executive functions discussed include the developmental trajectory of executive functions, healthy and pathological aging in executive functions, as well as the influence of environmental factors and intelligence on executive functions.

Antibacterial Surfaces, Thin Films, and Nanostructured Coatings - Daniele Valerini
2021-09-08

Creating antibacterial surfaces is the primary approach in preventing the occurrence and diffusion of clinical infections and foodborne diseases as well as in contrasting the propagation of pandemics in everyday life. Proper surface engineering can inhibit microorganism spread and biofilm formation, can contrast antimicrobial resistance (AMR), and can avoid cross-contamination from a contaminated surface to another and eventually to humans. For these reasons, antibacterial surfaces play a key role in many applications, ranging from biomedicine to food and beverage materials, textiles, and objects with frequent human contact. The incorporation of antimicrobial agents within a surface or their addition onto a surface are very effective strategies to achieve this aim and to properly modify many other surface properties at the same time. In this framework, this Special Issue collects research studying several materials and methods related to the antibacterial properties

of surfaces for different applications and discussions about the environmental and human-safety aspects.

Enhanced Recovery After Surgery - Ivan Veličković 2019-08-22

World Directory of Medical Schools - World Health Organization 2000

This directory lists institutions of basic medical education that have been approved by the national authorities in 157 countries or areas and provides information about each that will be useful to health officials, medical faculties and students.

Intelligent Data Engineering and Automated Learning - IDEAL 2019 - Hujun Yin 2019-11-07

This two-volume set of LNCS 11871 and 11872 constitutes the thoroughly refereed conference proceedings of the 20th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2019, held in Manchester, UK, in November 2019. The 94 full

papers presented were carefully reviewed and selected from 149 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2019 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspired models (including neural networks, evolutionary computation and swarm intelligence), agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI.

17th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2022) -

Pablo García Bringas 2022-11-12

This book contains accepted papers presented at SOCO 2022 conference held in the beautiful and historic city of Salamanca (Spain), in September 2022. Soft computing represents a collection or

set of computational techniques in machine learning, computer science, and some engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. After a thorough peer-review process, the 17th SOCO 2022 International Program Committee selected 64 papers which are published in these conference proceedings and represent an acceptance rate of 60%. In this relevant edition, a particular emphasis was put on the organization of special sessions. Seven special sessions were organized related to relevant topics such as machine learning and computer vision in Industry 4.0; time series forecasting in industrial and environmental applications; optimization, modeling, and control by soft computing techniques; soft computing applied to renewable energy systems; preprocessing big data in machine learning; tackling real-world problems with artificial intelligence. The selection of papers was extremely rigorous to maintain the high quality

of the conference. We want to thank the members of the program committees for their hard work during the reviewing process. This is a crucial process for creating a high-standard conference; the SOCO conference would not exist without their help.

Developmental Neuropathology - Reinhard L. Friede 2012-12-06

I was gratified by the most favorable reception and wide usage received by the first edition of this book. A decade seems to be a short period for a book on pathology, and yet it witnessed many important changes of concepts, along with a formidable growth of knowledge. The second edition required extensive reorganization. There are new chapters on mitochondriopathies, on peroxisomal diseases and on spongy myelinopathies. Major revisions and new additions were necessary in many chapters, for instance those on the dysplasias of the cerebral and of the cerebellar hemispheres, which were largely reorganized. The chapters on perinatal

pathology were reordered and reorganized to give a more logical sequence of prenatal, perinatal and postnatal lesions. The entire text was worked over for brevity. A wealth of new references was added with the aim of staying abreast with the literature up to summer 1988. All references were double checked for errors. My gratitude goes to Mrs. Gisela Ropte and Mrs. Cynthia Bunker for their untiring, diligent help. As a result, this second edition is an essentially rewritten text. Advance in the prevention of human suffering is based on a thorough understanding of the nature of disease. I hope that this text will continue to be of service in this behalf. Perhaps it may also reflect and foster the intellectual curiosity which makes the "reading of brains" so interesting an occupation. Gottingen, 1989 Reinhard L.

Hybrid Artificial Intelligent Systems - Enrique Antonio de la Cal 2020-11-04

This book constitutes the refereed proceedings of the 15th International Conference on Hybrid

Artificial Intelligent Systems, HAIS 2020, held in Gijón, Spain, in November 2020. The 65 regular papers presented in this book were carefully reviewed and selected from 106 submissions.

The papers are grouped into these topics: advanced data processing and visualization techniques; bio-inspired models and optimization; learning algorithms; data mining, knowledge discovery and big data; and hybrid artificial intelligence applications.

Intelligent Decision Technologies 2017 -

Ireneusz Czarnowski 2017-05-24

The volume presents a collection of peer-reviewed articles from the 9th KES International Conference on Intelligent Decision Technologies (KES-IDT-17), held in Vilamoura, Algarve, Portugal on 21-23 June 2017. The conference addressed critical areas of computer science, as well as promoting knowledge transfer and the generation of new ideas in the field of intelligent decision making, project management and data analysis. The range of topics addressed includes

methods of classification, prediction, data analysis, decision support, modeling, social media and many more in such diverse areas as finance, linguistics, management and transportation.

Transosseous Osteosynthesis - Gavriil A. Ilizarov 2012-12-06

This volume deals with the transosseous external fixation techniques that I have been developing over the course of the past 40 years. During this time, our research in medicine, biology and engineering has led to the evolution of more than 800 unique, highly effective methods of treatment that extend beyond the realm of traumatology and orthopedics. The book features a comprehensive theoretical and clinical description of the biologic laws governing the dependence of the shape-forming processes of bones and joints upon the adequacy of blood supply, as well as a delineation of the effect of tension-stress upon the genesis and growth of tissues. I have included our latest

data on tissue growth and regeneration during transosseous osteosyntheses. The book summarizes the biomechanical principles of application of my apparatus; clinical cases selected from more than 25000 patients illustrate the management of some of the most complex disorders of the locomotor system. New solutions to many therapeutic problems are described. In particular, severe limb trauma with large defects of bone, vessels, nerves and skin can be managed without resort to transplantation. Radical debridement surgery can be followed by a one-step restoration of the missing tissue, thus decreasing the likelihood of a serious wound infection or an amputation.

14th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2019) - Francisco Martínez Álvarez 2019-04-30

This book includes 57 papers presented at the SOCO 2019 conference held in the historic city of Seville (Spain), in May 2019. Soft computing

represents a set of computational techniques in machine learning, computer science and various engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. The selection of papers was extremely rigorous in order to maintain the high quality of the conference, which featured a number of special sessions, including sessions on: Soft Computing Methods in Manufacturing and Management Systems; Soft Computing Applications in the Field of Industrial and Environmental Enterprises; Optimization, Modeling and Control by Soft Computing Techniques; and Soft Computing in Aerospace, Mechanical and Civil Engineering: New methods and Industrial Applications.

Hybrid Artificial Intelligent Systems - Hilde Pérez García 2019-08-26

This volume constitutes the refereed proceedings of the 14th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2019, held in León, Spain, in

September 2019. The 64 full papers published in this volume were carefully reviewed and selected from 134 submissions. They are organized in the following topical sections: data mining, knowledge discovery and big data; bio-inspired models and evolutionary computation; learning algorithms; visual analysis and advanced data processing techniques; data mining applications; and hybrid intelligent applications.

Bulletin scientifique - 1967

Consists of abstracts and bibliographies.

The Thyroid and Its Diseases - Markus Luster
2019-01-08

This book is an up-to-date and comprehensive guide to all the common thyroid disorders that may be seen by internists, endocrinologists, nuclear medicine physicians, and endocrine surgeons. While the fundamentals of thyroid hormone function and regulation in health and disease are well covered, the primary focus is on the clinical approach to thyroid disease, with

detailed coverage of both initial diagnosis and management and the role of imaging. Because most endocrine diseases are chronic and lifelong, special emphasis is placed on long-term management and the common pitfalls that may be encountered by the clinician. The editors are internationally acknowledged leaders in the field of thyroid disease and have gathered an outstanding team of authors, all of whom are also highly expert in their respective areas, but who, equally importantly, write in a clear and lucid style. The numerous isotope scan and ultrasonographic images ensure that the book will serve as a valuable reference atlas to which the physician will return again and again.

Handbook of Pathophysiology - 2001-01
his carry-along reference addresses the development and progression of disease. Readers master the basic principles and processes of health and disease and how more than 400 individual diseases affect the human body. Causes, pathophysiology, complications,

signs and symptoms, and treatments are reviewed for each disease. Also included are separate entries on body-system anatomy and physiology. More than 100 illustrations and flowcharts clarify key concepts. Content includes fundamentals of cell homeostasis, cancer, infection, genetics, and fluids and electrolytes; cardiovascular, respiratory, nervous, gastrointestinal, musculoskeletal, hematologic, immune, endocrine, reproductive, renal, integumentary, and sensory systems; appendices, including a 16-page full-color section on the pathophysiology of selected diseases; an index and more

Proceedings of the 4th International Conference on the Industry 4.0 Model for Advanced Manufacturing - Laszlo Monostori
2019-04-30

This book gathers the proceedings of the 4th International Conference on the Industry 4.0 Model for Advanced Manufacturing (AMP 2019), held in Belgrade, Serbia, on 3-6 June 2019. The

event marks the latest in a series of high-level conferences that bring together experts from academia and industry to exchange knowledge, ideas, experiences, research findings, and information in the field of manufacturing. The book addresses a wide range of topics, including: design of smart and intelligent products, developments in CAD/CAM technologies, rapid prototyping and reverse engineering, multistage manufacturing processes, manufacturing automation in the Industry 4.0 model, cloud-based products, and cyber-physical and reconfigurable manufacturing systems. By providing updates on key issues and highlighting recent advances in manufacturing engineering and technologies, the book supports the transfer of vital knowledge to the next generation of academics and practitioners. Further, it will appeal to anyone working or conducting research in this rapidly evolving field.

15th International Conference on Soft

Computing Models in Industrial and Environmental Applications (SOCO 2020) -

Álvaro Herrero 2020-08-28

This book contains accepted papers presented at SOCO 2020 conference held in the beautiful and historic city of Burgos (Spain), in September 2020. Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. After a thorough peer-review process, the SOCO 2020 International Program Committee selected 83 papers which are published in these conference proceedings and represents an acceptance rate of 35%. Due to the COVID-19 outbreak, the SOCO 2020 edition was blended, combining on-site and on-line participation. In this relevant edition a special emphasis was put on the organization of special sessions. Eleven special session were organized related to relevant topics such as: Soft

Computing Applications in Precision Agriculture, Manufacturing and Management Systems, Management of Industrial and Environmental Enterprises, Logistics and Transportation Systems, Robotics and Autonomous Vehicles, Computer Vision, Laser-Based Sensing and Measurement and other topics such as Forecasting Industrial Time Series, IoT, Big Data and Cyber Physical Systems, Non-linear Dynamical Systems and Fluid Dynamics, Modeling and Control systems The selection of papers was extremely rigorous in order to maintain the high quality of SOCO conference editions and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help.

Blood Pressure - Aise Seda Artis 2018-11-14

Since the discovery of blood pressure by Stephen Hales in 1733, scientific interest in

blood pressure regulation, particularly in hypertensive population, has not lost its popularity. The importance of the interactive effects of blood pressure shifts in different clinical conditions is well understood. We know many contributing factors regulate the pressure of the blood within the arteries. However, crucial blood pressure control and the exact mechanisms involved are still under debate. The present book aims to cover blood pressure from its measurement to various factors of its control with valuable contributions from different authors, in the light of contemporary data, from bench to bed.

EPDIC 7 - 2001

X-ray powder diffraction is a non-destructive technique widely applied for the characterisation of crystalline materials. The method has been traditionally used for phase identification, quantitative analysis and the determination of structure imperfections. In recent years, applications have been extended to new areas,

such as the determination of crystal structures and the extraction of three-dimensional microstructural properties. Following the EPDIC award lecture on X-Ray Scattering from Metallic Multilayers by D. Rafaja, The present volume covers all aspects of METHOD DEVELOPMENT (Deconvolution and Pattern Decomposition; Determination of Crystal Structure and Lattice Constants; Qualitative and Quantitative Phase Analysis; Analysis of Microstructure and Macrostress; Texture and Coarse Grains) INSTRUMENT DEVELOPMENT AND MEASUREMENT TECHNIQUES, SYNCHROTRON POWDER DIFFRACTION, NEUTRON POWDER DIFFRACTION and IN-SITU (TIME RESOLVED) POWDER DIFFRACTION,

Plant Genome Editing - Policies and Governance
- Thorben Sprink 2020-04-22

Challenges of Pharmacoconomics in Global Health Arena - Mihajlo (Michael) Jakovljevic

2019-03-01

The pace of globalization has significantly accelerated since the end of the Cold War Era in 1989. These changes profoundly affected health care systems worldwide. Health policy makers increasingly started facing new harsh challenges in their uneasy task to provide universal health coverage and decent equity of access to medical services. Among the most prominent demand-side issues are extended longevity joined with population aging, rise of non-communicable diseases, and growing patient expectations. Supply-side causes are gains in societal welfare and living standards, technological innovation in medicine and continuing rapid urbanization in developing world regions. Successful insurance-based risk sharing agreements made drug dispensing and medical service provision cheap or virtually free at the point of consumption in most OECD and many middle-income countries. Coupled with massive build-up of workforce capacities and strengthening of primary care

and hospital networks, all these factors contributed to the “supplier induced demand” phenomenon. There is straightforward historical evidence of long-term growth in pharmaceutical and overall health spending both in absolute and GDP% terms worldwide. The accumulated constraints deriving from skyrocketing costs of care were felt in many areas of clinical medicine even among the richest societies. Cardinal examples of expensive and hardly affordable therapeutic areas are orphan drugs indicated to treat rare diseases and targeted biologicals used in autoimmune disorders and cancer. Last but not least, is troubled and frequently denied access to even essential generic pharmaceuticals still taking place in many nations. This appears to be particularly the case among the world's poor and under-served citizens residing in rural and suburban areas of low- and middle-income countries. To a large extent, these difficulties are worsened by lack of evidence-based resource allocation strategies and less sustainable

financing strategies.

16th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2021) - Hugo Sanjurjo González 2021-09-22

This book of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2021 conference held in the beautiful and historic city of Bilbao (Spain), in September 2021. Soft computing represents a collection or set of computational techniques in machine learning, computer science, and some engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. After a through peer-review process, the 16th SOCO 2021 International Program Committee selected 78 papers which are published in these conference proceedings and represents an acceptance rate of 48%. In this relevant edition, a special emphasis is put on the organization of special sessions. Seven special sessions are organized related to

relevant topics as follows: applications of machine learning in computer vision; soft computing applied to autonomous robots and renewable energy systems; optimization, modeling, and control by soft computing techniques (OMCS); challenges and new approaches toward artificial intelligence deployments in real-world scenarios; time series forecasting in industrial and environmental applications (TSF); soft computing methods in manufacturing and management systems and applied machine learning. The selection of papers was extremely rigorous in order to maintain the high quality of the conference, and we would like to thank the members of the program committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference, and the SOCO conference would not exist without their help.

Applied Industrial Energy and Environmental Management - Zoran Morvay

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2008-10-13

Industrial energy systems channel fuels and power into a variety of energy types such as steam, direct heat, hot fluids and gases, and shaft power for compressors, fans, pumps, and other machine-driven equipment. All of these processes impact the environment and are impacted by external energy and environmental policies and regulations. Therefore many environmental management issues are closely related to energy use and efficiency. Applied Industrial Energy and Environmental Management provides a comprehensive and application oriented approach to the technical and managerial challenges of efficient energy performance in industrial plants. Written by leading practitioners in the field with extensive experience of working with development banks, international aid organizations, and multinational companies, the authors are able to offer real case studies as a basis to their method. The book is divided into three main parts: Part

one describes Energy and Environmental Management Systems (EEMS) in current use and management techniques for energy and environmental performance improvement. Part two focuses on the engineering aspects of industrial energy management, describing main industrial energy systems and how to analyse and improve their energy performance. Part three is the TOOLBOX on an accompanying website, which contains data, analytical methods and questionnaires as well as software programs, to support the practical application of the methods elaborated on in the first two parts of the book. This book will be a valuable resource to practising energy and environmental management engineers, plant managers and consultants in the energy and manufacturing industries. It will also be of interest to graduate engineering and science students taking courses in industrial energy and environmental management Advanced Technologies, Systems, and

Applications IV -Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT 2019) - Samir Avdaković 2019-07-12

This book presents the scientific outcomes of the conference 11th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, held in Sarajevo, Bosnia and Herzegovina, June 20-23, 2019. Including innovative applications of advanced technologies, it offers a uniquely comprehensive, multidisciplinary and interdisciplinary overview of the latest developments in a broad range of technologies and methodologies, viewed through the prism of computing, networking, information technology, robotics, complex systems, communications, energy, mechanical engineering, economics and medicine, among others.

Speech and Computer - Albert Ali Salah
2019-08-09

This book constitutes the proceedings of the 21st International Conference on Speech and

Computer, SPECOM 2019, held in Istanbul, Turkey, in August 2019. The 57 papers presented were carefully reviewed and selected from 86 submissions. The papers present current research in the area of computer speech processing including audio signal processing, automatic speech recognition, speaker recognition, computational paralinguistics, speech synthesis, sign language and multimodal processing, and speech and language resources.

Pharmaceutical Biocatalysis - Peter Grunwald
2020-11-26

Volume 7 of the Jenny Stanford Series on Biocatalysis deals with several different aspects of pharmaceuticals, which include not only various applications of drugs and their metabolism but also natural resources for active pharmaceutical ingredients as well as the removal of pharmaceutical pollution. In detail, novel approaches for developing microbial fermentation processes to produce vitamin B6 using microorganisms are described together

with novel routes for vitamin B6 biosynthesis. The other topics discussed are new approaches for producing the successful anticancer drug Taxol from naturally occurring precursors, molecular farming through plant engineering as a cost-effective means to produce therapeutic and prophylactic proteins, and successful screening of potent microorganisms producing L-asparaginase for various chemotherapeutic applications. Furthermore, microbial

biotransformations in the production and degradation of fluorinated pharmaceuticals are described. The other chapters inform the reader about the biotransformation of xenobiotics/drugs in living systems, the degradation of pharmaceuticals by white-rot fungi and their ligninolytic enzymes, and the removal of pharmaceutical pollution from municipal sewage using laccase.