



Synthesis, Characterization and Potential Applications

Electronic Governance with Emerging Technologies

United States Civil Aircraft Register

Middleton's Allergy E-Book

Proceedings of the 3rd International Conference on Calcined Clays for Sustainable Concrete

Physiologic, Metabolic, and Molecular Approaches

International Conference on Communication, Computing and Electronics Systems

Head and neck cancer (HNC) is a heterogeneous group of cancers that, if combined, represent one of the most common cancer types. Patients with HNC suffer significant morbidity and mortality due to the importance of the structures involved. Over two-thirds of these patients are diagnosed at a late stage, leading to a poor prognosis. Therefore, advancements in early detection and treatment of HNC are crucial. This second volume provides an up-to-date overview of the theoretical background in the field of head and neck cancer (HNC) as well as of the emerging research that is impacting our understanding of this disease. The book begins with a comprehensive review of the epidemiology, etiology, symptoms, diagnosis, and staging of HNC. Next, it covers the essentials of potentially malignant disorders of the oral cavity, an important variety of HNC. Subsequently, it covers the newly emerging research in the field of HNC. The overall goal is to shift towards precision medicine (discussed in detail in Volume I), which will bring individualized clinical benefit to patients with HNC. This second volume of Early Detection and Treatment of Head & Neck Cancers concludes with the topic of chronic pain associated with HNC, including both the mechanisms of pain and the management strategies, and the emerging oral mucoadhesive drug delivery approach for HNC. All HNC surgeons, scientists, residents, and individuals whose lives have been touched by this disease, will recognize the impact pain has upon a patient's health and his or her recovery trajectory.

This book constitutes the refereed proceedings of the 13th International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2017, held in Beijing, China, in December 2017. The 39 revised full papers presented were carefully reviewed and selected from 145 submissions. The papers address issues such as multi-hop wireless networks and wireless mesh networks; sensor and actuator networks; vehicle ad hoc networks; mobile social network; delay tolerant networks and opportunistic networking; cyber-physical systems; internet of things; system modeling and performance analysis; routing and network protocols; data transport and management in mobile networks; resource management and wireless QoS provisioning; security and privacy; cross layer design and optimization; novel applications and architectures.

This book includes high impact papers presented at the International Conference on Communication, Computing and Electronics Systems 2019, held at the PPG Institute of Technology, Coimbatore, India, on 15-16 November, 2019. Discussing recent trends in cloud computing, mobile computing, and advancements of electronics systems, the book covers topics such as automation, VLSI, embedded systems, integrated device technology, satellite communication, optical communication, RF communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, Internet of Things, precision models, bioinformatics, and healthcare informatics.

This book presents the select proceedings of the International Conference on Structures, Materials and Construction (ICSMC 2021). It covers the recent developments and futuristic trends in the field of structural engineering and construction management, including new building materials and understanding their behavior. The topic covered also assess the current progress and state-of-the-art techniques in structural experimentation, smart materials, structures technology, principles of construction management, materials properties and characterization. The collection of papers included in this proceeding will contribute to scientific developments in the field of structural engineering and construction and will be a useful as reference material for the academicians, researchers and most importantly the student community pursuing research in the fields of structural engineering and construction technology.

13th International Conference, MSN 2017, Beijing, China, December 17-20, 2017, Revised Selected Papers

Colloids for Nanobiotechnology

An Unprecedented Force for An Unprecedented Social Change

Northern Hemisphere data tabulations

Thailand

Low-Grade Glioma, An Issue of Neurosurgery Clinics of North America

The Economist

This book presents original contributions to the theories and practices of emerging Internet, data, and Web technologies and their applicability in businesses, engineering, and academia. Internet has become the most proliferative platform for emerging large-scale computing paradigms. Among these, data and Web technologies are two most prominent paradigms, in a variety of forms such as Data Centers, Cloud Computing, Mobile Cloud, Mobile Web Services, and so on. These technologies altogether create a digital ecosystem whose corner stone is the data cycle, from capturing to processing, analysis, and visualization. The investigation of various research and development issues in this digital ecosystem is boosted by the ever-increasing needs of real-life applications, which are based on storing and processing large amounts of data. As a key feature, it addresses advances in the life cycle exploitation of data generated from the digital ecosystem data technologies that create value for the knowledge and businesses toward a collective intelligence approach. Researchers, software developers, practitioners, and students interested in the field of data and Web technologies find this book useful and a reference for their activity.

Living cells require a constant supply of energy for the orchestration of a variety of biological processes in fluctuating environmental conditions. In heterotrophic organisms, energy mainly derives from the oxidation of carbohydrates and lipids, whose chemical bonds breakdown allows electrons to generate ATP and to provide reducing equivalents needed to restore the antioxidant systems and prevent from damage induced by reactive oxygen and nitric oxide (NO)-derived species (ROS and RNS). Studies of the last two decades have highlighted that cancer cells reprogram the metabolic circuitries in order to sustain their high growth rate, invade other tissues, and escape death. Therefore, this broad metabolic reorganization is mandatory for neoplastic growth, allowing the generation of adequate amounts of ATP and metabolites, as well as the optimization of redox homeostasis in the changeable environmental conditions of the tumor mass. Among these, ROS, as well as NO and RNS, which are produced at high extent in the tumor microenvironment or intracellularly, have been demonstrated acting as positive modulators of cell growth and frequently associated with malignant phenotype. Metabolic changes are also emerging as primary drivers of neoplastic onset and growth, and alterations of mitochondrial metabolism and homeostasis are emerging as pivotal in driving tumorigenesis. Targeting the metabolic rewiring, as well as affecting the balance between production and scavenging of ROS and NO-derived species, which underpin cancer growth, opens the possibility of finding selective and effective anti-neoplastic approaches, and new compounds affecting metabolic and/or redox adaptation of cancer cells are emerging as promising chemotherapeutic tools. In this Research Topic we have elaborated on all these aspects and provided our contribution to this increasingly growing field of research with new results, opinions and general overviews about the extraordinary plasticity of cancer cells to change metabolism and redox homeostasis in order to overcome the adverse conditions and sustain their "individualistic" behavior under a teleonomic viewpoint.

This book gathers the Proceedings of the International Conference on Mechatronics and Intelligent Robotics (ICMIR2017), held in Kunming, China, on May 20–21, 2017. The book covers a total of 172 papers, which have been divided into seven different sections: Intelligent Systems, Intelligent Sensors & Actuators, Robotics, Mechatronics, Modeling & Simulation, Automation & Control, and Robot Vision. ICMIR2017 provided a vital forum for discussing the latest and most innovative ideas from both the industrial and academic worlds, and for sharing best practices in the fields of mechanical engineering, mechatronics, automatic control, electrical engineering, finite element analysis and computational engineering. The main focus of the conference was on promoting interaction between academia and industry, allowing the free exchange of ideas and challenges faced by these two key stakeholders and encouraging future collaboration between the members of these groups. The proceedings cover new findings in the following areas of research and will offer readers valuable insights: Mechatronics Intelligent mechatronics, robotics and biomimetics; Novel and unconventional mechatronic systems; Modeling and control of mechatronics systems; Elements, structures and mechanisms of micro and nano systems; Sensors, wireless sensor networks and multi-sensor data fusion; Biomedical and rehabilitation engineering, prosthetics and artificial organs; Artificial Intelligence (AI), neural networks and fuzzy logic in mechatronics and robotics; Industrial automation, process control and networked control systems; Telerobotics, Human–Computer Interaction; and Human–Robot Interaction; Robotics Artificial Intelligence; Bio-inspired robotics; Control algorithms and control systems; Design theories and principles; Evolutional robotics; Field robotics; Force sensors, accelerometers, and other measuring devices; Healthcare robotics; Human–Robot Interaction; Kinematics and dynamics analysis; Manufacturing robotics; Mathematical and computational methodologies in robotics; Medical robotics; Parallel robots and manipulators; Robotic cognition and emotion; Robotic perception and decisions; Sensor integration, fusion, and perception; and Social robotics.

Recent Advances in Structural Engineering and Construction Management

Proceedings of CCODE 2019

Psychiatric & Mental Health Nursing for Canadian Practice

Proceedings of the 2020 Future of Information and Communication Conference (FICC), Volume 1

Analyzing China's Overseas Investments