Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing

Velayutham, Sathiyamoorthy 2021-01-29 In today’s market, emerging technologies are continually assisting in common workplace practices as companies and organizations search for innovative ways to modernize their issues that arise. Prevalent applications including internet of things, big data, and cloud computing all have noteworthy benefits, but issues remain when separately integrating them into the professional practices. Significant research is needed on converging these systems and leveraging each of their advantages in order to find solutions to real-time problems that exist. Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing is a pivotal reference source that provides vital research on the relation between these technologies and the impact they collectively have in solving real-world challenges. While highlighting topics such as cloud-based analytics, intelligent algorithms, and information security; this publication explores current issues that remain when attempting to implement these systems as well as the specific applications IoT, big data, and cloud computing have in various professional sectors. This book is ideally designed for academicians, researchers, developers, computer scientists, IT professionals, practitioners, scholars, students, and engineers seeking research on the integration of emerging technologies to solve modern societal issues.

Optics and Spectroscopy

R Murugesan | Kirthiga Sivarpanath 2003 This book has been written for the students of B.Sc., Physics of various Indian Universities. The book covers the syllabi, prescribed by Madras, Bharathiyar, Bharathidhasan, Madurai Kamaraj and Manonmaniam Sundaranar Universities. SI System of Units has been used throughout the text. Proper care has been taken in dealing with the subject with modern outlook. A large number of questions and problems have been given at the end of each Chapter. Students should attempt to tackle them properly for better insight and understanding of the subject.

Seaweed Polysaccharides

Jayachandran Venkatesan 2017-05-30 Seaweed Polysaccharides, Isolation, Biological, and Biomedical Applications examines the isolation and characterization of algal biopolymers, including a range of new biological and biomedical applications. In recent years, significant developments have been made in algae-based polymers (commonly called polysaccharides), and in biomedical applications such as drug delivery, wound dressings, and tissue engineering. Demand for algae-based polymers is increasing and represents a potential—very inexpensive—resource for these applications. The structure and chemical modification of algal polymers are covered, as well as the biological properties of these materials—including antithrombic, anti-inflammatory, anticoagulant, and antiviral aspects. Toxicity of algal biopolymers is also covered. Finally, the book introduces and explains real world applications of algal-based biopolymers in biomedical applications, including tissue engineering, drug delivery, and biosensors. This is the first book to cover the extraction techniques, biomedical applications, and the economic perspective of seaweed polysaccharides. It is an essential tool for researchers and industry professionals looking to work with this renewable resource. Provides comprehensive coverage of the research currently taking place in biomedical applications of algae biopolymers. Includes practical guidance on the isolation, extraction, and characterization of polysaccharides from sustainable marine sources. Covers the extraction techniques, biomedical applications, and economic outlook of seaweed polysaccharides.

Sciencia Magna, Vol. 9, No. 1, 2013

Zhang Wengpeng Papers on Smarandache cyclic determinant natural sequence, Smarandache cyclic arithmetic determinant sequence, Smarandache bisymmetric determinant natural sequence, Smarandache bisymmetric arithmetic determinant sequence, ordered intuitionistic fuzzy quasi uniform connected spaces, computing the number of integer points in 4-dimensional hall, open problems on the connected higcraths graphs, right circulant matrices with Perrin sequence, semi normed space defined by entire rate sequences, and similar topics. Contributors: G. Thangaraj, S. Anjalmose, B. S. Mehrok, G. Singh, N. Subramanian, A. Cesar, F. Bueno, A. Al-Omari, S. Modak, N. Selvanayagi, G. Ilango, and others.

SCIENTIA MAGNA: An international journal, Vol. 13, No. 1, 2018

Richa Brar Sciencia Magna is a peer-reviewed, open access journal that publishes original research articles in all areas of mathematics and mathematical sciences. However, papers related to Smarandache’s problems will be highly preferred.

SCIENTIA MAGNA - International Book Series (vol. 13, no. 1)

Huang Liu Sciencia Magna international book series are published in one or two volumes per year with more than 100 pages and over 1,000 copies.

Mathematical Models of Infectious Diseases and Social Issues

Shah, Nita H. 2020-06-26 When deadly illness spreads through a population at a rapid pace, time may be of the essence in order to save lives. Using mathematics as a language to interpret assumptions concerning the biological and population mechanics, one can make predictions by analyzing actual epidemiological data using mathematical tests and results. Mathematical models can help us understand the right disease status and predict the effects of the disease on populations, which can be a potential—very inexpensive—resource for these applications. The structure and chemical modification of algal polymers are covered, as well as the biological properties of these materials—including antithrommic, anti-inflammatory, anticoagulant, and antiviral aspects. Toxicity of algal biopolymers is also covered. Finally, the book introduces and explains real world applications of algal-based biopolymers in biomedical applications, including tissue engineering, drug delivery, and biosensors. This is the first book to cover the extraction techniques, biomedical applications, and the economic perspective of seaweed polysaccharides. It is an essential tool for researchers and industry professionals looking to work with this renewable resource. Provides comprehensive coverage of the research currently taking place in biomedical applications of algae biopolymers. Includes practical guidance on the isolation, extraction, and characterization of polysaccharides from sustainable marine sources. Covers the extraction techniques, biomedical applications, and economic outlook of seaweed polysaccharides.

Advanced Applications of Fractional Differential Operators to Science and Technology

Mateuck. Ahmed Ezzat 2020-04-24 Fractional-order calculus problems to the 19th century but has been resurrected as a prevalent research subject due to its provision of more adequate and realistic descriptions of physical aspects within the science and engineering fields. What was once a classical form of mathematics is currently being reintroduced as a new modeling technique that engineers and scientists are finding modern uses for. There is a need for research on all facets of these fractional-order systems and studies of its potential applications. Advanced Applications of Fractional Differential Operators to Science and Technology provides emerging research exploring the theoretical and practical aspects of novel fractional modeling and related dynamical behaviors as well as its applications within the fields of physical sciences and engineering. Featuring coverage on a broad range of topics including deterministic models, environmental pollution, and social issues, this book is ideally designed for diagnosticians, clinicians, healthcare providers, all chemists, policymakers, academicians, researchers, and students.

Advanced Applications of Fractional Differential Operators to Science and Technology

Mathematical Analysis and Applications

Michael Ruzhansky 2018-04-11 An authoritative text that presents the current problems, theories, and applications of mathematical analysis research. Mathematical Analysis and Applications offers the theories, methods, and applications of a variety of targeted topics including: operator theory, approximation theory, fixed point theory, stability theory, minimization problems, many-body wave scattering problems, Basel problem, Conova problem, inequalities, generalized normed spaces, variations of functions and sequences, analytic generalizations of the Catalan, Fuss, and Fuss-Catalan Numbers, asymptotically developable functions, convex functions, Gaussian processes, image analysis, and spectral analysis and spectral synthesis. The authors—a noted team of international researchers in the field—highlight the basic developments for each topic presented and explore the most recent advances made in their area of study. The book is presented in such a way that enables the reader to follow subsequent studies in a burgeoning field of research. This important text: Presents a wide-range of important topics having current research importance and interdisciplinary applications such as game theory, image processing, creation of materials with a desired refraction coefficient, etc. Contains chapters written by a group of esteemed researchers in mathematical analysis. Includes problems and research questions in order to enhance understanding of the information provided Offers references that help readers advance further study Written for researchers, graduate students, educators, and practitioners with an interest in mathematical analysis. Mathematical Analysis and Applications: Selected Topics includes the most recent research from a range of mathematical fields.

Marine Polysaccharides

Shakeel Ahmed 2018-12-20 In the past few decades, marine organisms, including macroalgae and microalgae, have been extensively explored as potential sources of bioactive compounds with applications in various fields such as pharmaceuticals, biomedical, cosmetics and foodstuffs. Marine polysaccharides, such as chitin/chitosan, ulvan, fucan, fucoglycans, and carrageenans, are biochemically compounds with several important properties such as anti-inflammatory and/or antithrombic, immunomodulatory, antitumor, anti-inflammatory, anti-oxidant, and anti-coagulant. Due to their biocompatible, nontoxic and biodegradable nature, marine polysaccharides offer a better alternative to be used in advancement of the biomedical field. This book focuses on marine polysaccharides; their derivatives, blends, composites and hydrogels; and their multifaceted applications in various fields. The book also discusses the various aspects of marine polysaccharides from the point of view of chemistry and related applications. It is an important reference for marine biotechnologists, natural product scientists, students, researchers and academicians working in the area of materials science, marine science and polymer chemistry.
Pullulan - Shaked Ahmed 2020-12-31 Pullulan is a polysaccharide produced by the fungus Aureobasidium pullulans and possesses some distinct properties such as excellent transparent film-forming ability, moisture absorbptivity, water solubility, non-toxicity, and adhesivity. These properties allow pullulan to find potential applications in various industries such as pharmaceuticals, cosmetics, food, and health care. This book presents the chemistry and properties of pullulan, along with its uses in the field of its production at the laboratory level. The unqiue book comprehensively summarizes many of the recent research findings on pullulan, contributed by leading experts in this research domain. It is a useful reference book for scientists, academicians, researchers, chemists, technologists, graduate and postgraduate students, and general readers who are interested in pullulan.

Thiruvalluvar Tours the World - Thangai, Dr. Kailash Nath, Irai Mathialagan, Keerthi Prasad 2021-09-21 This book is a non-fictional visualisation of current global incidents through the lens of Thirukkural. The book is divided into the raging COVID-19 pandemic, polygamou Chinese lifestyle, · an axe, and tech giants such as Google, Apple, etc. The first chapter, ‘American Presidential Election 2024’, starts with the voyage of Columbus and covers a little about the Red Indians. Push, from Anna University, and Guru went to America for MBA in Ivy League. Guru joined Harvard and Push went to Kellogg School. Push fell in love with an American girl, Dorzah, in Kellogg. About 80% of this chapter is in a WhatsApp conversation format - a trendig social media for all generations. Interestingly, Dorzah is a republican and Push is a democrat. The MBA friends from American universities started the WhatsApp group, ‘MBA Round D World’. Students from Harvard, Yale, UCB, IIT, LSE, ETH-Swiss and Moscow University are in it. They debated on the Presidential Election 2020 and finally landed in 2024. The subject changed to Russian Direct Democracy, Brexit, Myanmare Coup. The Group, interestingly, entered into the ‘Happiness Index’ of the top 10 country’s research. Dorzah is also Trump’s fan. The Group’s debate on the politics between Push and Dorzah did not affect their true love. The 1330th Kural reminded us, “Quarelling adds delight to love, a hearty embrace [thereafter] adds delight to this quarrel.” Thirukkural was penned 2,000 years back by Thiruvalluvar and translated into 14 languages.

Marine Cosmeceuticals - Se Kwon Kim 2016-04-19 Marine Cosmeceuticals: Trends and Prospects is a consolidated overview of the marine environment as a productive source of novel cosmeceuticals. It accumulates the latest research in this field from around the globe, highlighting the potential of marine micro and macro flora and fauna as effective agents for the development of novel cosmeceuticals.


Recent Trends in Network Security and Applications - Natarajan Meghanathan 2010-07-24 The Third International Conference on Network Security and Applications (CNSA-2010) focused on all technical and practical aspects of security and its applications for wired and wireless networks. The goal of the conference is to bring together researchers and practitioners from academia and industry to focus on understanding modern security threats and countermeasures, and establishing new collaborations in these areas. Authors are invited to contribute to the conference by submitting articles that illustrate research results, projects, survey work, and industrial experiences describing significant advancements in security and its applications, including: • Network and Wireless Network Security • Mobile, Ad hoc and Sensor Network Security • Peer-to-Peer and Network Security • Database and System Security • Intrusion Detection and Security • Network Security and Applications Management • E-mail Security, Spam, Phishing, E-mail Fraud • Virus, Worms, Trojan Protection • Security Trusts and Countermeasures (DDoS, MIM, Session Hijacking, Replay attack etc.) • Ubiquitous Computing Security • Web 2.0 Security • Cryptographic Protocols • Performance Evaluations of Protocols and Security Application There were 182 submissions to the conference and the Program Committee selected 63 papers for publication. The book is organized as a collection of papers from the First International Workshop on Trust Management in P2P Systems (IWTP2PS 2010), the First International Workshop on Database Management Systems (DMS-2010), and the First International Workshop on Mobile, Wireless and Networks Security (MWNNS-2010).
Pullulan
Shakeel Ahmed 2020-12-30 Pullulan is a polysaccharide produced by the fungus Aureobasidium pullulans and possesses some distinct properties such as excellent transparent film-forming ability, moisture absorptivity, water solubility, non-toxicity, and adhesivity. These properties allow pullulan to find potential applications in various industries such as pharmaceuticals, cosmetics, food, and health care. This book presents the chemistry and properties of pullulan, along with the method of its production at the laboratory level. It discusses the structural engineering, processing methods, and versatile applications of pullulan, as well as highlights the challenges that still have to be overcome for its large-scale production. This unique book comprehensively summarizes many of the recent research findings on pullulan, contributed by leading experts in this research domain. It is a useful reference book for scientists, academicians, researchers, chemists, technologists, graduates, and postgraduate students, and general readers who are interested in pullulan.

Tirukkuräḷ
Tiruvaḷḷuvar 2000 Original text, modern Tamil, and English translations of Tirukkuräḷ, ancient Tamil didactic verse work, by Tiruvaḷḷuvar, Tamil poet.
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