

Psychology Frontiers And Applications Third Cdn Edition

Psychology Psychology: Frontiers and Applications Passer's Psychology **Graph Neural Networks: Foundations, Frontiers, and Applications** Neural Interface: Frontiers and Applications **New Frontiers and Applications of Synthetic Biology** **Tin Chemistry** Frontiers in Intelligent Computing: Theory and Applications Endless Quests: Theory, Experiments And Applications Of Frontiers Of Superconductivity Frontiers of Biostatistical Methods and Applications in Clinical Oncology Mathematics: Frontiers and Perspectives **Frontiers and Advances in Molecular Spectroscopy** **Modernity, Frontiers and Revolutions** Frontiers in Queueing **Maximum Simulated Likelihood Methods and Applications** Recent Advances in Knowledge-based Paradigms and Applications **Frontiers in Biosensorics II** Frontiers in Chemical Engineering New Frontiers in Rare Earth Science and Applications **Space Technology and Applications** **International Forum - STAIF 2008** Field-Programmable Logic and Applications New Frontiers in Information and Software as Services Intelligent Robotics and Applications **Exploring Research Frontiers in Contemporary Statistics and Econometrics** Functional Brain Mapping of Epilepsy Networks: Methods and Applications **Power Electronic Converters and Systems** **Advances in DEA Theory and Applications** **Satellite Earth Observations and Their Impact on Society and Policy** **Frontiers in Major League Baseball** **Frontiers of Polymer Research** **Frontiers of Nanofiber Fabrication and Applications** **Frontiers in Surface Nanophotonics** **The Value of Information** **Natural Sources, Physicochemical Characterization and Applications** Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications Green Synthesis, Characterization and Applications of Nanoparticles **Frontier Applications of Nature Inspired Computation** New Frontiers and Applications of Synthetic Biology **Geometric Structures in Nonlinear Physics** Data Envelopment Analysis: Theory, Methodology, and Applications

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Satellite Earth Observations and Their Impact on Society and Policy Jun 29 2020 The result of a workshop bringing together an international advisory board of experts in science, satellite technologies, industry innovations, and public policy, this book addresses the current and future roles of satellite Earth observations in solving large-scale environmental problems. The book showcases the results of engaging distinct communities to enhance our ability to identify emerging problems and to administer international regimes created to solve them. It also reviews the work of the Policy and Earth Observation Innovation Cycle (PEOIC) project, an effort aimed at assessing the impact of satellite observations on environmental policy and to propose a mission going forward that would launch an "innovation cycle". The achievements of such a mission would feed back to innovations in next-generation observation technology, thus contributing to global policy demand for policy-relevant information. This book is open access under a CC BY license.

Green Synthesis, Characterization and Applications of Nanoparticles Oct 22 2019 Green Synthesis, Characterization and Applications of Nanoparticles shows how eco-friendly nanoparticles are engineered and used. In particular, metal nanoparticles, metal oxide nanoparticles and other categories of nanoparticles are discussed. The book outlines a range of methodologies and explores the appropriate use of each. Characterization methods include spectroscopic, microscopic and diffraction methods, but magnetic resonance methods are also included as they can be used to understand the mechanism of nanoparticle synthesis using organisms. Applications covered include targeted drug delivery, water purification and hydrogen generation. This is an important research resource for those wishing to learn more about how eco-efficient nanoparticles can best

be used. Theoretical details and mathematical derivations are kept to a necessary minimum to suit the need of interdisciplinary audiences and those who may be relatively new to the field. Explores recent trends in growth, characterization, properties and applications of nanoparticles Gives readers an understanding on how they are applied through the use of case studies and examples Assesses the advantages and disadvantages of a variety of synthesis and characterization techniques for green nanoparticles in different situations

Frontiers in Surface Nanophotonics Feb 24 2020 This book explores the role of surface effects in optical phenomena in nanoscience, from two different perspectives. When systems are reduced in volume, the ratio of surface versus volume increases. At the level of single nanostructures this translates into an enhanced role of interfacial chemistry and thermodynamics. At the level of systems of nanostructures, it translates into larger density on interfaces, which in turn leads to such intriguing collective effects as plasmonics or multiple reflection and refraction phenomena. The book highlights both perspectives presenting sample applications. Without claiming to be exhaustive, the book aims to stimulate readers in this potentially rewarding field.

Exploring Research Frontiers in Contemporary Statistics and Econometrics Nov 03 2020 This book collects contributions written by well-known statisticians and econometricians to acknowledge Léopold Simar's far-reaching scientific impact on Statistics and Econometrics throughout his career. The papers contained herein were presented at a conference in Louvain-la-Neuve in May 2009 in honor of his retirement. The contributions cover a broad variety of issues surrounding frontier estimation, which Léopold Simar has contributed much to over the past two decades, as well as related issues such as semiparametric regression and models for censored data. This book collects contributions written by well-known statisticians and econometricians to acknowledge Léopold Simar's far-reaching scientific impact on Statistics and Econometrics throughout his career. The papers contained herein were presented at a conference in Louvain-la-Neuve in May 2009 in honor of his retirement. The contributions cover a broad variety of issues surrounding frontier estimation, which Léopold Simar has contributed much to over the past two decades, as well as related issues such as semiparametric regression and models for censored data.

New Frontiers and Applications of Synthetic Biology Aug 20 2019 New Frontiers and Applications of Synthetic Biology presents a collection of chapters from eminent synthetic biologists across the globe who have established experience and expertise working with synthetic biology. This book offers several important areas of synthetic biology which allow us to read and understand easily. It covers the introduction of synthetic biology and design of promoter, new DNA synthesis and sequencing technology, genome assembly, minimal cells, small synthetic RNA, directed evolution, protein engineering, computational tools, de novo synthesis, phage engineering, a sensor for microorganisms, next-generation diagnostic tools, CRISPR-Cas systems, and more. This book is a good source for not only researchers in designing synthetic biology, but also for researchers, students, synthetic biologists, metabolic engineers, genome engineers, clinicians, industrialists, stakeholders and policymakers interested in harnessing the potential of synthetic biology in many areas. Offers basic understanding and knowledge in several aspects of synthetic biology Covers state-of-the-art tools and technologies of synthetic biology, including promoter design, DNA synthesis, DNA sequencing, genome design, directed evolution, protein engineering, computational tools, phage design, CRISPR-Cas systems, and more Discusses the applications of synthetic biology for smart drugs, vaccines, therapeutics, drug discovery, self-assembled materials, cell free systems, microfluidics, and more

New Frontiers in Rare Earth Science and Applications Apr 08 2021

Frontiers of Nanofiber Fabrication and Applications Mar 27 2020 A special issue that covers mainly electrospinning, vibration-electrospinning, bubble electrospinning and blown bubble spinning. It is suitable as a reference not only for materials science, but also for various communities in physics, nanotechnology and chemistry.

Field-Programmable Logic and Applications Feb 06 2021 This book constitutes the refereed proceedings of the 12th International Conference on Field-Programmable Logic and Applications, FPL 2002, held in Montpellier, France, in September 2002. The 104 revised regular papers and 27 poster papers presented together with three invited contributions were carefully reviewed and selected from 214 submissions. The papers are organized in topical sections on rapid prototyping, FPGA synthesis, custom computing engines, DSP applications, reconfigurable fabrics, dynamic reconfiguration, routing and placement, power estimation, synthesis issues, communication applications, new technologies, reconfigurable architectures, multimedia applications, FPGA-based arithmetic, reconfigurable processors, testing and fault-tolerance, crypto applications, multitasking, compilation techniques, etc.

Frontiers of Biostatistical Methods and Applications in Clinical Oncology Jan 17 2022 This book presents the state of the art of biostatistical methods and their applications in clinical oncology. Many methodologies

established today in biostatistics have been brought about through its applications to the design and analysis of oncology clinical studies. This field of oncology, now in the midst of evolution owing to rapid advances in biotechnologies and cancer genomics, is becoming one of the most promising disease fields in the shift toward personalized medicine. Modern developments of diagnosis and therapeutics of cancer have also been continuously fueled by recent progress in establishing the infrastructure for conducting more complex, large-scale clinical trials and observational studies. The field of cancer clinical studies therefore will continue to provide many new statistical challenges that warrant further progress in the methodology and practice of biostatistics. This book provides a systematic coverage of various stages of cancer clinical studies. Topics from modern cancer clinical trials include phase I clinical trials for combination therapies, exploratory phase II trials with multiple endpoints/treatments, and confirmative biomarker-based phase III trials with interim monitoring and adaptation. It also covers important areas of cancer screening, prognostic analysis, and the analysis of large-scale molecular data in the era of big data.

Frontiers of Polymer Research Apr 27 2020 This book represents the proceedings of the First International Conference on Frontiers of Polymer Research held in New Delhi, India during January 20-25, 1991. Polymers have usually been perceived as substances to be used in insulations, coatings, fabrics, and structural materials. Defying this classical view, polymers are emerging as a new class of materials with potential applications in many new technologies. They also offer challenging opportunities for fundamental research. Recognizing a tremendous growth in world wide interest in polymer research and technology, a truly global "1st International Conference on Frontiers of Polymer Research" was organized by P. N. Prasad (SUNY at Buffalo), F. E. Karasz (University of Massachusetts) and J. K. Nigam (Shriram Institute for Industrial Research, India). The 225 participants represented 25 countries and a wide variety of academic, industrial and government groups. The conference was inaugurated by the Prime Minister of India, Mr. Chandra Shekhar and had a high level media coverage. The focus of the conference was on three frontier areas of polymer research: (i) Polymers for photonics, where nonlinear optical properties of polymers show great promise, (ii) Polymers for electronics, where new conduction mechanisms and photophysics have generated considerable enthusiasm and (iii) High performance polymers as new advanced polymers have exhibited exceptionally high mechanical strength coupled with light weight.

Frontiers in Intelligent Computing: Theory and Applications Mar 19 2022 This book presents the proceedings of the 7th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2018), held at Duy Tan University, Da Nang, Vietnam. The event brought together researchers, scientists, engineers, and practitioners to exchange ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines. These proceedings are divided into two volumes. Covering broad areas of intelligent engineering informatics, with papers exploring both the theoretical and practical aspects of various areas like ANN and genetic algorithms, human-computer interaction, intelligent control optimization, intelligent e-learning systems, machine learning, mobile computing, and multi-agent systems, this volume is a valuable resource for postgraduate students in various engineering disciplines.

Frontiers in Major League Baseball May 29 2020 This book focuses on the application of Data Envelopment Analysis (DEA) to Major League Baseball (MLB). DEA is a nonparametric linear programming model that is used across academic disciplines. In sports economics, authors have applied the technique primarily to assess team and/or managerial efficiency. The basis for performance analysis is economic production theory, where it is assumed that baseball can be viewed as a production process whereby inputs (player quality measures) are transformed into outputs (wins, attendance). The primary advantage that DEA has over more traditional regression based approaches is the ability to handle multiple inputs and multiple outputs. Further, the approach is nonparametric and hence, does not require a priori specification of the production function. The book develops the theory of DEA in the context of a production environment. A focal point is the assessment of technical and cost efficiency of MLB teams. It is shown that previous frontier applications that measure efficiency provide biased results given that the outcome of a game is zero-sum. If a team loses a game due to inefficiency, another team wins a lost game. A corrected frontier is presented to overcome this problem. Free agent salary arbitration is analyzed using a dual DEA model. Each free agent's contract zone is identified. The upper and lower bounds, representing the player's and team's perspective of value, respectively, are estimated. Player performance is estimated using a modified DEA model to rank order players based on multiple attributes. This model will be used to evaluate current Hall of Fame players. We provide arguments for other players who are deserving of membership. We also use our measure of performance and evaluate age-performance profilers for many ball players. Regression analysis is used to identify the age of peak performance. The method is used to evaluate some of the all-time greats. We also use the method to analyze admitted and implicated steroid users. The results clearly show that performance was enhanced. This book will provide appropriate theoretical models with

methodological considerations and interesting empirical analyses and is intended to serve academics and practitioners interested in applying DEA to baseball as well as other sports or production processes. >

Endless Quests: Theory, Experiments And Applications Of Frontiers Of Superconductivity Feb 18 2022 The book is devoted to advancing and developing the frontiers of superconductivity; in particular, the theory of the Diagrammatic Iteration Approach (DIA), described in Chapter 1, is unique in the community of superconductivity. The application of DIA to electron correlation effects has allowed the tough issue of strongly-coupled electron systems to be solved, which is important for high-temperature superconductivity (HTS). DIA, when applied to a layered two-dimensional system, gives rise to marvelous outcomes that can explain all the anomalies in the normal state of HTS, and leads to a transition temperature that is dependent on quantities including the dielectric constant, electron band mass and spacing between layers. This then serves as a quantifiable guide on how to make ideal superconductors. Moreover, in such a scenario, the mechanisms of low- and high-temperature superconductivity can be unified on the basis of repulsive Coulomb interactions between electrons. The book contains rich first-hand information on experiments at the frontiers of superconductivity, as well as on relevant applications of such cutting-edge developments. For instance, Jiasu Wang, co-author of the chapter discussing the HTS Maglev train, is the person who completed the world's first HTS Maglev train. Thus, the draw of this book lies not only in its ability to marry theory, experiment and application, but also in its inclusion of research from prestigious experts of the field.

Intelligent Robotics and Applications Dec 04 2020 The two volume set LNAI 10984 and LNAI 10985 constitutes the refereed proceedings of the 11th International Conference on Intelligent Robotics and Applications, ICIRA 2018, held in Newcastle, NSW, Australia, in August 2018. The 81 papers presented in the two volumes were carefully reviewed and selected from 129 submissions. The papers in the first volume of the set are organized in topical sections on multi-agent systems and distributed control; human-machine interaction; rehabilitation robotics; sensors and actuators; and industrial robot and robot manufacturing. The papers in the second volume of the set are organized in topical sections on robot grasping and control; mobile robotics and path planning; robotic vision, recognition and reconstruction; and robot intelligence and learning.

Natural Sources, Physicochemical Characterization and Applications Dec 24 2019 This volume presents different aspects related to bioactive compounds, starting with their natural state in raw sources, physicochemical characterization and employment in pharmacy and medicine. The volume is divided into three parts. The first part descr

Frontiers in Chemical Engineering May 09 2021 In the next 10 to 15 years, chemical engineers have the potential to affect every aspect of American life and promote the scientific and industrial leadership of the United States. *Frontiers in Chemical Engineering* explores the opportunities available and gives a blueprint for turning a multitude of promising visions into realities. It also examines the likely changes in how chemical engineers will be educated and take their place in the profession, and presents new research opportunities.

Data Envelopment Analysis: Theory, Methodology, and Applications Jun 17 2019 This book represents a milestone in the progression of Data Envelopment Analysis (DEA). It is the first reference text which includes a comprehensive review and comparative discussion of the basic DEA models. The development is anchored in a unified mathematical and graphical treatment and includes the most important modeling extensions. In addition, this is the first book that addresses the actual process of conducting DEA analyses including combining DEA and 1 parametric techniques. The book has three other distinctive features. It traces the applications driven evolution and diffusion of DEA models and extensions across disciplinary boundaries. It includes a comprehensive bibliography to serve as a source of references as well as a platform for further developments. And, finally, the power of DEA analysis is demonstrated through fifteen novel applications which should serve as an inspiration for future applications and extensions of the methodology. The origin of this book was a Conference on New Uses of DEA in 2 Management and Public Policy which was held at the IC Institute of the University of Texas at Austin on September 27-29, 1989. The conference was made possible through NSF Grant #SES-8722504 (A. Charnes and 2 W. W. Cooper, co-PIs) and the support of the IC Institute.

Recent Advances in Knowledge-based Paradigms and Applications Jul 11 2021 This book presents carefully selected contributions devoted to the modern perspective of AI research and innovation. This collection covers several areas of applications and motivates new research directions. The theme across all chapters combines several domains of AI research, Computational Intelligence and Machine Intelligence including an introduction to the recent research and models. Each of the subsequent chapters reveals leading edge research and innovative solution that employ AI techniques with an applied perspective. The problems include classification of spatial images, early smoke detection in outdoor space from video images, emergent segmentation from image analysis, intensity modification in images, multi-agent modeling and analysis of stress. They all are novel pieces of work

and demonstrate how AI research contributes to solutions for difficult real world problems that benefit the research community, industry and society.

Geometric Structures in Nonlinear Physics Jul 19 2019 VOLUME 26 of INTERDISCIPLINARY MATHEMATICS, series expounding mathematical methodology in Physics & Engineering. TOPICS: Differential & Riemannian Geometry; Theories of Vorticity Dynamics, Einstein-Hilbert Gravitation, Colobbeau-Rosinger Generalized Function Algebra, Deformations & Quantum Mechanics of Particles & Fields. Ultimate goal is to develop mathematical framework for reconciling Quantum Mechanics & concept of Point Particle. New ideas for researchers & students. Order: Math Sci Press, 53 Jordan Road, Brookline, MA 02146. (617) 738-0307.

Mathematics: Frontiers and Perspectives Dec 16 2021 A celebration of the state of mathematics at the end of the millennium. Produced under the auspices of the International Mathematical Union (IMU), the book was born as part of the activities of World Mathematical Year 2000. It consists of 28 articles written by influential mathematicians.

Passer's Psychology Aug 24 2022 Michael Passer and Ronald Smith pooled their 25 years of combined experience in teaching Introduction to Psychology to bring you an innovative new approach to unveiling the science of Psychology. The goal of Psychology: Frontiers and Applications is to share with students the excitement the authors have found in the study of behavior and to make the course more exciting for you to teach. To achieve this goal, Drs. Passer and Smith present Psychology from a perspective that repeatedly emphasizes the linkages between basic science and applied science. Students discover the connections between theoretical research findings and practical solutions to problems in society. This approach teaches students to think more like psychologists, viewing the world of behavior in a more analytical, sophisticated way which includes considering the multiple factors that result in behavior.

Graph Neural Networks: Foundations, Frontiers, and Applications Jul 23 2022 Deep Learning models are at the core of artificial intelligence research today. It is well known that deep learning techniques are disruptive for Euclidean data, such as images or sequence data, and not immediately applicable to graph-structured data such as text. This gap has driven a wave of research for deep learning on graphs, including graph representation learning, graph generation, and graph classification. The new neural network architectures on graph-structured data (graph neural networks, GNNs in short) have performed remarkably on these tasks, demonstrated by applications in social networks, bioinformatics, and medical informatics. Despite these successes, GNNs still face many challenges ranging from the foundational methodologies to the theoretical understandings of the power of the graph representation learning. This book provides a comprehensive introduction of GNNs. It first discusses the goals of graph representation learning and then reviews the history, current developments, and future directions of GNNs. The second part presents and reviews fundamental methods and theories concerning GNNs while the third part describes various frontiers that are built on the GNNs. The book concludes with an overview of recent developments in a number of applications using GNNs. This book is suitable for a wide audience including undergraduate and graduate students, postdoctoral researchers, professors and lecturers, as well as industrial and government practitioners who are new to this area or who already have some basic background but want to learn more about advanced and promising techniques and applications.

Advances in DEA Theory and Applications Jul 31 2020 A key resource and framework for assessing the performance of competing entities, including forecasting models Advances in DEA Theory and Applications provides a much-needed framework for assessing the performance of competing entities with special emphasis on forecasting models. It helps readers to determine the most appropriate methodology in order to make the most accurate decisions for implementation. Written by a noted expert in the field, this text provides a review of the latest advances in DEA theory and applications to the field of forecasting. Designed for use by anyone involved in research in the field of forecasting or in another application area where forecasting drives decision making, this text can be applied to a wide range of contexts, including education, health care, banking, armed forces, auditing, market research, retail outlets, organizational effectiveness, transportation, public housing, and manufacturing. This vital resource: Explores the latest developments in DEA frameworks for the performance evaluation of entities such as public or private organizational branches or departments, economic sectors, technologies, and stocks Presents a novel area of application for DEA; namely, the performance evaluation of forecasting models Promotes the use of DEA to assess the performance of forecasting models in a wide area of applications Provides rich, detailed examples and case studies Advances in DEA Theory and Applications includes information on a balanced benchmarking tool that is designed to help organizations examine their assumptions about their productivity and performance.

Tin Chemistry Apr 20 2022 Tin chemistry retains a place in contemporary science as an important element owing to its wide range of applications. New and exciting research is being generated on an annual basis from all

parts of the world – the study of tin and its compounds attracts considerable interest from a range of perspectives such as organic synthesis, medicine, materials chemistry, catalysis and environment. Tin Chemistry – Fundamentals, Frontiers and Applications collects, in one comprehensive volume, authoritative and concise snapshots of modern tin chemistry in a full range of applications. Over forty of the leading tin chemistry experts have contributed reviews in six themes: fundamentals in tin chemistry materials chemistry and structural chemistry of tin compounds medicinal and biocidal applications of tin compounds tin in the environment tin in organic synthesis tin in catalysis Tin Chemistry – Fundamentals, Frontiers and Applications is an essential overview of modern perspectives on this important element for the specialist and non-specialist alike. It will promote cross-disciplinary interactions and at the same time be an essential teaching resource for advanced university classes.

New Frontiers in Information and Software as Services Jan 05 2021 The increasing costs of creating and maintaining infrastructures for delivering services to consumers have led to the emergence of cloud based third party service providers renting networks, computation power, storage, and even entire software application suites. On the other hand, service customers demand competitive pricing, service level agreements, and increased flexibility and scalability. Service consumers also expect process and data security, 24/7 service availability, and compliance with privacy regulations. This book focuses on such challenges associated with the design, implementation, deployment, and management of data and software as a service. The 12 papers presented in this volume were contributed by leaders in academia and industry, and were reviewed and supervised by an expert editorial board. They describe cutting-edge approaches in areas like service design, service security, service optimization, and service migration.

The Value of Information Jan 25 2020 The book examines applications in two disparate fields linked by the importance of valuing information: public health and space. Researchers in the health field have developed some of the most innovative methodologies for valuing information, used to help determine, for example, the value of diagnostics in informing patient treatment decisions. In the field of space, recent applications of value-of-information methods are critical for informing decisions on investment in satellites that collect data about air quality, fresh water supplies, climate and other natural and environmental resources affecting global health and quality of life.

Psychology: Frontiers and Applications Sep 25 2022 Passer, Psychology: Frontiers and Applications, 7th Canadian Edition dives deep into the science of psychology while exploring how students can apply concepts in their lives and society. The 7th Canadian Edition is led by Dr. Mike Atkinson, Associate Professor of Psychology at Western University and winner of numerous awards, including the prestigious 3M Canada Teaching Fellowship. Passer is a student-friendly resource that also maintains scientific integrity. The new edition preserves its tradition of emphasizing relations between biological, psychological, and environmental levels of analysis. Passer offers McGraw-Hill Connect, an award-winning digital teaching and learning solution that empowers students to achieve better outcomes and enables instructors to improve course management efficiency. This resource is ideal for degree-level Introductory Psychology courses, or for any learner eager to explore the science of psychology.

Frontiers in Biosensorics II Jun 10 2021 Volume II focuses on the state-of-the-art technologies and applications of various types of sensors. It presents different analyzers and their operational parameters in many areas of practical use. Moreover, aspects of the marketability of biosensors are covered in the context of established conventional analytical techniques as well as under consideration of the needs, habits and beliefs of consumers. A picture thus emerges of how applications can be expanded in the future and novel markets can be opened up.

Modernity, Frontiers and Revolutions Oct 14 2021 The texts presented in Proportion Harmonies and Identities (PHI) - MODERNITY, FRONTIERS AND REVOLUTIONS were compiled with the intent to establish a multidisciplinary platform for the presentation, interaction and dissemination of research. It also aims to foster awareness of and discussion on the topics of Harmony and Proportion with a focus on different visions relevant to Architecture, Arts and Humanities, Design, Engineering, Social and Natural Sciences, and their importance and benefits for the sense of both individual and community identity. The idea of modernity has been a significant driver of development since the Western Early Modern Age. Its theoretical and practical foundations have become the working tools of scientists, philosophers, and artists, who seek strategies and policies to accelerate the development process in different contexts.

Maximum Simulated Likelihood Methods and Applications Aug 12 2021 This collection of methodological developments and applications of simulation-based methods were presented at a workshop at Louisiana State University in November, 2009. Topics include: extensions of the GHK simulator; maximum-simulated likelihood; composite marginal likelihood; and modelling and forecasting volatility in a bayesian approach.

New Frontiers and Applications of Synthetic Biology May 21 2022 New Frontiers and Applications of Synthetic Biology presents a collection of chapters from eminent synthetic biologists across the globe who have established experience and expertise working with synthetic biology. This book offers several important areas of synthetic biology which allow us to read and understand easily. It covers the introduction of synthetic biology and design of promoter, new DNA synthesis and sequencing technology, genome assembly, minimal cells, small synthetic RNA, directed evolution, protein engineering, computational tools, de novo synthesis, phage engineering, a sensor for microorganisms, next-generation diagnostic tools, CRISPR-Cas systems, and more. This book is a good source for not only researchers in designing synthetic biology, but also for researchers, students, synthetic biologists, metabolic engineers, genome engineers, clinicians, industrialists, stakeholders and policymakers interested in harnessing the potential of synthetic biology in many areas. Offers basic understanding and knowledge in several aspects of synthetic biology Covers state-of-the-art tools and technologies of synthetic biology, including promoter design, DNA synthesis, DNA sequencing, genome design, directed evolution, protein engineering, computational tools, phage design, CRISPR-Cas systems, and more Discusses the applications of synthetic biology for smart drugs, vaccines, therapeutics, drug discovery, self-assembled materials, cell free systems, microfluidics, and more

Frontiers and Advances in Molecular Spectroscopy Nov 15 2021 Frontiers and Advances in Molecular Spectroscopy once again brings together the most eminent scientists from around the world to describe their work at the cutting-edge of molecular spectroscopy. Much of what we know about atoms, molecules and the nature of matter has been obtained using spectroscopy over the last one hundred years or so. Going far beyond the topics discussed in Jaan Laane's earlier book on the subject, these chapters describe new methodologies and applications, instrumental developments and theory, which are taking spectroscopy into still new frontiers. The robust range of topics once again demonstrates the wide utility of spectroscopic techniques. New topics include ultrafast spectroscopy of the transition state, SERS/far-uv spectroscopy, femtosecond coherent anti-Stokes Raman spectroscopy, high-resolution laser induced fluorescence spectroscopy, Raman spectroscopy and biosensors, vibrational optical activity, ultrafast two-dimensional spectroscopy, biology with x-ray lasers, isomerization dynamics and hydrogen bonding, single molecule imaging, spectra of intermediates, matrix isolation spectroscopy and more. Covers spectroscopic investigations on the cutting edge of science Written and edited by leading experts in their respective fields Allows researchers to access a broad range of essential modern spectroscopy content from a single source rather than wading through hundreds of scattered journal articles
Functional Brain Mapping of Epilepsy Networks: Methods and Applications Oct 02 2020

Power Electronic Converters and Systems Sep 01 2020 Power electronic systems are indispensable in adjustable speed drives, national smart power grid, electric and hybrid cars, electric locomotives and subway trains, renewable energy sources and distributed generation. As a result, the interest in power electronics is expanding along with the need for a source of state-of-the-art knowledge. With chapters written by specialists in their field, this important book is a comprehensive compendium of topics related to recent advances in power electronic devices, converters and systems. It will be essential reading for practicing engineers specializing in the development and application of power electronic converters and systems. It will also be of value to graduate students specializing in power electronics, renewable energy and power systems, and for postdocs involved in related research projects.

Neural Interface: Frontiers and Applications Jun 22 2022 This book focuses on the frontiers of neural interface technology, including hardware, software, neural decoding and encoding, control systems, and system integration. It also discusses applications for neuroprosthetics, neural diseases and neurorobotics, and the toolkits for basic neuroscience. A neural interface establishes a direct communication channel with the central or peripheral nervous system (CNS or PNS), and enables the nervous system to interact directly with the external devices. Recent advances in neuroscience and engineering are speeding up neural interface technology, paving the way for assisting, augmenting, repairing or restoring sensorimotor and other cognitive functions impaired due to neurological disease or trauma, and so improving the quality of life of those affected. Neural interfaces are now being explored in applications as diverse as rehabilitation, accessibility, gaming, education, recreation, robotics and human enhancement. Neural interfaces also represent a powerful tool to address fundamental questions in neuroscience. Recent decades have witnessed tremendous advances in the field, with a huge impact not only in the development of neuroprosthetics, but also in our basic understanding of brain function. Neural interface technology can be seen as a bridge across the traditional engineering and basic neuroscience. This book provides researchers, graduate and upper undergraduate students from a wide range of disciplines with a cutting-edge and comprehensive summary of neural interface engineering research.

Frontiers in Queueing Sep 13 2021 Queueing systems and networks are being applied to many areas of

technology today, including telecommunications, computers, satellite systems, and traffic processes. This timely book, written by 26 of the most respected and influential researchers in the field, provides an overview of fundamental queueing systems and networks as applied to these technologies. *Frontiers in Queueing: Models and Applications in Science and Engineering* was written with more of an engineering slant than its predecessor, *Advances in Queueing: Theory, Methods, and Open Problems*. The earlier book was primarily concerned with methods, and was more theoretically oriented. This new volume, meant to be a sequel to the first book, was written by scientists and queueing theorists whose expertise is in technology and engineering, allowing readers to answer questions regarding the technicalities of related methods from the earlier book. Each chapter in the book surveys the classes of queueing models and networks, or the applied methods in queueing, and is followed by a discussion of open problems and future research directions. The discussion of these future trends is especially important to novice researchers, students, and even their advisors, as it provides the perspectives of eminent scientists in each area, thus showing where research efforts should be focused. *Frontiers in Queueing: Models and Applications in Science and Engineering* also includes applications to vital areas of engineering and technology, specifically, telecommunications, computers and computer networks, satellite systems, traffic processes, and more applied methods such as simulation, statistics, and numerical methods. All researchers, from students to advanced professionals, can benefit from the sound advice and perspective of the contributors represented in this book.

Space Technology and Applications International Forum - STAIF 2008 Mar 07 2021 As the British, French and Spanish Atlantic empires were torn apart in the Age of Revolution, Portugal steadily pursued reforms to tie its American, African and European territories more closely together. Eventually, after a period of revival and prosperity, the Luso-Brazilian world also succumbed to revolution, which ultimately resulted in Brazil's independence from Portugal. The first of its kind in the English language to examine the Portuguese Atlantic World in the period from 1750 to 1850, this book reveals that despite formal separation, the links and relationships that survived the demise of empire entwined the historical trajectories of Portugal and Brazil even more deeply. From constitutionalism to economic policy to the problem of slavery, Portuguese and Brazilian statesmen and political writers laboured under the long shadow of empire as they sought to begin anew and forge stable post-imperial orders on both sides of the Atlantic.

Psychology Oct 26 2022

Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications Nov 22 2019 Cyber security has become a topic of concern over the past decade as private industry, public administration, commerce, and communication have gained a greater online presence. As many individual and organizational activities continue to evolve in the digital sphere, new vulnerabilities arise. *Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications* contains a compendium of the latest academic material on new methodologies and applications in the areas of digital security and threats. Including innovative studies on cloud security, online threat protection, and cryptography, this multi-volume book is an ideal source for IT specialists, administrators, researchers, and students interested in uncovering new ways to thwart cyber breaches and protect sensitive digital information.

Frontier Applications of Nature Inspired Computation Sep 20 2019 This book addresses the frontier advances in the theory and application of nature-inspired optimization techniques, including solving the quadratic assignment problem, prediction in nature-inspired dynamic optimization, the lion algorithm and its applications, optimizing the operation scheduling of microgrids, PID controllers for two-legged robots, optimizing crane operating times, planning electrical energy distribution systems, automatic design and evaluation of classification pipelines, and optimizing wind-energy power generation plants. The book also presents a variety of nature-inspired methods and illustrates methods of adapting these to said applications. Nature-inspired computation, developed by mimicking natural phenomena, makes a significant contribution toward the solution of non-convex optimization problems that normal mathematical optimizers fail to solve. As such, a wide range of nature-inspired computing approaches has been used in multidisciplinary engineering applications. Written by researchers and developers from a variety of fields, this book presents the latest findings, novel techniques and pioneering applications.

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