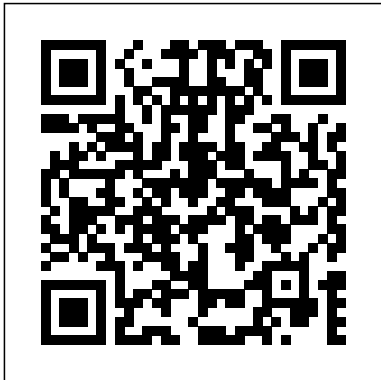

Rajalakshmi Engineering College

Thank you definitely much for downloading **Rajalakshmi Engineering College**. Maybe you have knowledge that, people have seen numerous times for their favorite books as soon as this Rajalakshmi Engineering College, but stop taking place in harmful downloads.

Rather than enjoying a good ebook past a mug of coffee in the afternoon, instead they juggled subsequently some harmful virus inside their computer. **Rajalakshmi Engineering College** is straightforward in our digital library an online entry to it is set as public suitably you can download it instantly. Our digital library saves in compound countries, allowing you to get the most less latency epoch to download any of our books later this one. Merely said, the Rajalakshmi Engineering College is universally compatible like any devices to read.



This book gathers high-quality papers presented at the Sixth International Conference on Smart Trends in Computing and Communications (SmartCom 2022), organized by Global Knowledge Research Foundation (GR Foundation) in partnership with IFIP InterYIT during January 11 – 12, 2022. It covers the state of the art and emerging topics in information, computer

communications, and effective strategies for their use in engineering and managerial applications. It also explores and discusses the latest technological advances in, and future directions for, information and knowledge computing and its applications.

"This book addresses the newest innovative and intelligent applications related to utilizing the large amounts of big data being generated that is increasingly driving decision making and changing the landscape of business intelligence, from governments to private organizations, from communities to individuals"--

Career planning has become a survival skill in today's world. Choosing a Career should be by Choice and not by Chance. But HOW TO CHOOSE THE RIGHT

CAREER? What are the factors one should consider while choosing a career? A Complete Guide to Career Planning is about how to decide the direction your career will take. The purpose behind writing this book is to make you conversant with the various career options that you can pursue and enable you to select the right career you most fit in. The author has meticulously explored and mapped the cavernous paths of the globe of careers, which exist presently. The book provides a straightforward introduction to the concepts of career choices and the importance of planning. It emphasises the importance of self-exploration by empowering readers to look at themselves, their strengths and weaknesses, and their background and values, and then realistically evaluate the various opportunities in the world of career. With this comprehensive guide a student can learn how to explore career options, plan a career path, and find the right school and colleges for higher studies that will help him achieve his goals easily and convincingly. The book includes all the information you need to plan your future and take control of your career.

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And

Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

Smart Trends in Computing and Communications
Counselling Guru

COMPLETE GUIDE TO CAREER PLANNING
Proceedings of SmartCom 2022

Enzyme Inhibition - Environmental and Biomedical Applications Innovations in Electronics and Communication Engineering

To continue providing people with safe, comfortable, and affordable places to live, cities must incorporate techniques and technologies to bring them into the future. The integration of big data and interconnected technology, along with the increasing population, will lead to the necessary creation of smart cities. Big Data Analytics for Smart and Connected Cities is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data analytics into the creation of smart cities. While highlighting topics such as energy conservation, public transit planning, and performance measurement, this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies. This book is ideally designed for engineers, professionals, researchers, and technology developers seeking current research on technology implementation in urban settings.

International Conference on Trends in Technology and Engineering – ICTTE' 15 is organized by in association with Arjun College of Technology and International Journal for Trends in Engineering & Technology (IJTET). . The conference theme concentrates to discover the latest technological innovation, trends in technology and engineering and that are experienced by the professionals with the present strict rules and to convert these complications into prospects. Authors are approved to post original research or system documents on any appropriate topics. These can either be frequent or brief documents.

This book gathers selected research papers presented at the Third

International Conference on Communication and Intelligent Systems (ICCIS 2021), organized by National Institute of Technology, Delhi, India, during December 18–19, 2021. This book presents a collection of state-of-the-art research work involving cutting-edge technologies for communication and intelligent systems. Over the past few years, advances in artificial intelligence and machine learning have sparked new research efforts around the globe, which explore novel ways of developing intelligent systems and smart communication technologies. The book presents single- and multi-disciplinary research on these themes in order to make the latest results available in a single, readily accessible source.

Enzyme inhibitors play a pivotal role in pharmaceutical and nutraceutical industries. The primary understanding of the action of inhibitors helps pharmacologists during the design process for developing new therapeutic drugs. Most drugs treat various chronic and life threatening diseases owing to their specificity and the potency of enzymes which they can inhibit. Enzyme inhibitors are used to screen various levels of diseases which propel the growth of inhibitors. The potential for enzyme inhibitors in the therapeutics market is very high as the biochemical properties and classes of enzyme inhibiting products are readily available. The other broad aspect of enzyme inhibition is their application in analytical sensors. These sensors assist in monitoring various environmental factors. Understanding the mechanism of inhibition and regeneration of enzymes is a general problem of great importance for many biochemists and biotechnologists especially when using immobilized enzymes. This reference compiles applied information about enzyme inhibitors used in medicine and environmental monitoring applications. Chapters presented in this volume cover special topics including biosensors, crop improvements in agriculture, biofuel production, pesticide and heavy metal detection,

and drug therapy for human diseases such as breast cancer, neurological diseases and viral infections. The collection of topics in this volume makes it an informative resource for readers at all academic levels on the applications of enzyme inhibitors in medicine and environmental sciences.

Big Data Analytics for Smart and Connected Cities

Sensor Data Analysis and Management

Nanomaterials

Communication and Intelligent Systems

Information and Communication Technology for Competitive Strategies (ICTCS 2021)

Select Proceedings of SPICE 2021

Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Biovalorisation of Wastes to Renewable Chemicals and Biofuels addresses

advanced technologies for converting waste to biofuels and value-added products. Biovalorisation has several advantages over conventional bioremediation processes as it helps reduce the costs of bioprocesses. Examples are provided of several successfully commercialized technologies, giving insight into developing, potential processes for biovalorisation of different wastes. Different bioprocess strategies are discussed for valorising the wastes coming from the leather industry, olive oil industry, pulp and paper, winery, textile, and food industries, as well as aquaculture. A section on biorefinery for hydrocarbons and emerging contaminants is included to cover concepts on biodesulfurization of petroleum wastes, leaching of heavy metals from E - waste, and bioelectrochemical processes for CO₂. Chapters on algal biorefinery are also included to focus on the technologies for conversion of CO₂ sequestration and wastewater utilization. Biovalorisation of Wastes to Renewable Chemicals and Biofuels can be used as course material for graduate students in chemical engineering, chemistry, and biotechnology, and as a reference for industrial professionals and researchers who want to gain a basic understanding on the subject. Covers a wide range of topics, from the conversion of wastes to organic acids, biofuels, biopolymers and industrially relevant products Bridges the gap between academics and industry Written in a lucid and self-explanatory style Includes activities/quiz/critical questions

Edge computing is focused on devices and technologies that are attached to the internet of things (IoT). Identifying IoT use across a range of industries and measuring strategic values helps identify what technologies to pursue and can avoid wasted resources on deployments with limited values. Edge Computing and Computational Intelligence Paradigms for the IoT is a critical research book that provides a complete insight on the recent advancements and integration of intelligence in IoT. This book highlights various topics such as disaster prediction, governance, and

healthcare. It is an excellent resource for researchers, working professionals, academicians, policymakers, and defense companies.

The utilization of various types of biomass residue to produce products such as biofuels and biochemicals means biorefinery technology using biomass residues may become a one-stop solution to the increasing need for sustainable, non-fossil sources of energy and chemicals. Refining Biomass Residues for Sustainable Energy and Bioproducts: Technology, Advances, Life Cycle Assessment and Economics focuses on the various biorefineries currently available and discusses their uses, challenges, and future developments. This book introduces the concept of integrated biorefinery systems, as well as their operation and feedstock sourcing. It explores the specificities, current developments, and potential end products of various types of residue, from industrial and municipal to agricultural and marine, as well as residue from food industries.

Sustainability issues are discussed at length, including life cycle assessment, economics, and cost analysis of different biorefinery models. In addition, a number of global case studies examine successful experiences in different regions. This book is an ideal resource for researchers and practitioners in the field of bioenergy and waste management who are looking to learn about technologies involved in residue biorefinery systems, how to reduce their environmental impacts, and how to ensure their commercial viability. Explores a range of different biorefinery categories, such as industrial, agricultural, and marine biomass residues Includes a Life Cycle Assessment of biorefinery models, in addition to costs and market analysis. Features case studies from around the world and is written by an international team of authors

2nd INTERNATIONAL CONFERENCE ON TRENDS IN TECHNOLOGY AND ENGINEERING

Biochemical and Environmental Bioprocessing

Technology, Advances, Life Cycle Assessment, and Economics

A Comprehensive Guide for Tamilnadu Engineering Admissions ICACIE 2021

The Role of Deep Learning

In a rapidly growing global economy, where there is a constant emergence of new business models and dynamic changes to the business ecosystem, there is a need for the integration of traditional, new, and hybrid concepts in the complex structure of supply chain management. Within the fast-paced pharmaceutical industry, product strategy, life cycles, and distribution must maintain the highest level of agility. Therefore, organizations need strong supply chain capabilities to profitably compete in the marketplace. Global Supply Chains in the Pharmaceutical Industry provides innovative insights into the efforts needed to build and maintain a strong supply chain network in order to achieve efficient fulfillment of demand, drive outstanding customer value, enhance organizational responsiveness, and build network resiliency. This publication is designed for supply chain managers, policymakers, researchers, academicians, and students, and covers topics centered on economic cycles, sustainable development, and new forces in the global economy.

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencies that big data bring to all institutions, data is continuously being collected and analyzed. However, data sets may be too complex for traditional data-processing, and therefore,

different strategies must evolve to solve the issue. processes to personalize product recommendations, to The field of big data works as a valuable tool for making you pro in sports, to making you commute, as many different industries. The Research Anthology on well as assisting you in growing more food, healthy Big Data Analytics, Architectures, and Applications food, providing you holistic living. is a complete reference source on big data analytics Machine Vision systems combine image processing with that offers the latest, innovative architectures and industrial automation. One of the primary areas of frameworks and explores a variety of applications application of Machine Vision in the Industry is in within various industries. Offering an international the area of Quality Control. Machine vision provides perspective, the applications discussed within this fast, economic and reliable inspection that improves anthology feature global representation. Covering quality as well as business productivity. Building topics such as advertising curricula, driven supply machine vision applications is a challenging task as chain, and smart cities, this research anthology is each application is unique, with its own ideal for data scientists, data analysts, computer requirements and desired outcome. A Guide to Machine engineers, software engineers, technologists, Vision in Quality Control follows a practitioner's government officials, managers, CEOs, professors, approach to learning machine vision. The book graduate students, researchers, and academicians. provides guidance on how to build machine vision Automation and artificial intelligence (AI) are systems for quality inspections. Practical transforming the world and contributing to the applications from the Industry have been discussed overall economic growth with futuristic approach. to provide a good understanding of usage of machine Automation and AI are future decoded, with the vision for quality control. Real-world case studies recent technological progress pushing the frontier have been used to explain the process of building of what machines can do and doing till today. This machine vision solutions. The book offers book provides insights that society needs these comprehensive coverage of the essential topics, that improvements to provide value to contribute to the includes: Introduction to Machine Vision growth and make once unimaginable progress on some of Fundamentals of Digital Images Discussion of various our most difficult societal challenges. AI has made machine vision system components Digital image especially large strides in recent years, as machine-processing related to quality control Overview of learning algorithms have become more sophisticated automation The book can be used by students and and made use of huge increases in computing power academics, as well as by industry professionals, to and of the exponential growth in data available to understand the fundamentals of machine vision. train them. These technologies are already Updates to the on-going technological innovations generating value in various products and services, have been provided with a discussion on emerging and companies across sectors use them in an array of trends in machine vision and smart factories of the

future. Sheila Anand is a PhD graduate and Professor at Rajalakshmi Engineering College, Chennai, India. She has over three decades of experience in teaching, consultancy and research. She has worked in the software industry and has extensive experience in development of software applications and in systems audit of financial, manufacturing and trading organizations. She guides Ph.D. aspirants and many of her research scholars have since been awarded their doctoral degree. She has published many papers in national and international journals and is a reviewer for several journals of repute.

L Priya is a PhD graduate working as Associate Professor and Head, Department of Information Technology at Rajalakshmi Engineering College, Chennai, India. She has nearly two decades of teaching experience and good exposure to consultancy and research. She has delivered many invited talks, presented papers and won several paper awards in International Conferences. She has published several papers in International journals and is a reviewer for SCI indexed journals. Her areas of interest include Machine Vision, Wireless Communication and Machine Learning.

Application in Biofuels and Bioenergy Production Systems

Proceedings of International Conference on Human Machine Interaction 2013 (HMI 2013)

Challenges and Developments

Advanced Computer and Communication Engineering Technology

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and

Cloud Computing

Ambient Communications and Computer Systems

Discover detailed insights into the methods, algorithms, and techniques for deep learning in sensor data analysis

Sensor Data Analysis and Management: The Role of Deep Learning delivers an insightful and practical overview of the applications of deep learning techniques to the analysis of sensor data.

The book collects cutting-edge resources into a single collection designed to enlighten the reader on topics as varied as recent techniques for fault detection and classification in sensor data, the application of deep learning to Internet of Things sensors, and a case study on high-performance computer gathering and processing of sensor data. The editors have curated a distinguished group of perceptive and concise papers that show the potential of deep learning as a powerful tool for solving complex modelling problems across a broad range of industries, including predictive maintenance, health monitoring, financial portfolio forecasting, and driver assistance. The book contains real-time examples of analyzing sensor data using deep learning algorithms and a step-by-step approach for installing and training deep learning using the Python keras library. Readers will also benefit from the inclusion of:

- A thorough introduction to the Internet of Things for human activity recognition, based on wearable sensor data
- An exploration of the benefits of neural networks in real-time environmental sensor data analysis
- Practical discussions of supervised learning data representation, neural networks for predicting physical activity based on smartphone sensor data, and deep-learning analysis of location sensor data for human activity recognition
- An analysis of boosting with XGBoost for sensor data analysis

Perfect for industry practitioners and academics involved in deep learning and the analysis of sensor data, *Sensor Data Analysis and Management: The Role of Deep Learning* will also earn a place in the libraries of undergraduate and graduate students in data science and computer science programs.

Recent developments in the fields of intelligent computing and communication have paved the way for the handling of current and upcoming problems and brought about significant technological advancements. This book presents the proceedings of IConIC 2021, the 4th

International Conference on Intelligent Computing, held on 26 and 27 March 2021 in Chennai, India. The principle objective of the annual IConIC conference is to provide an international scientific forum where participants can exchange innovative ideas in relevant fields and interact in depth through discussion with their peer group. The theme of the 2021 conference and this book is ‘ Smart Intelligent Computing and Communication Technology ’ , and the 109 papers included here focus on the technological innovations and trendsetting initiatives in medicine, industry, education and security that are improving and optimizing business and technical processes and enabling inclusive growth. The papers are grouped under 2 headings: Evolution of Computing Intelligence; and Computing and Communication, and cover a broad range of intelligent-computing research and applications. The book provides an overview of the cutting-edge developments and emerging areas of study in the technological fields of intelligent computing, and will be of interest to researchers and practitioners from both academia and industry. In the automotive industry, the need to reduce vehicle weight has given rise to extensive research efforts to develop aluminum and magnesium alloys for structural car body parts. In aerospace, the move toward composite airframe structures urged an increased use of formable titanium alloys. In steel research, there are ongoing efforts to design novel damage-controlled forming processes for a new generation of efficient and reliable lightweight steel components. All these materials, and more, constitute today ’ s research mission for lightweight structures. They provide a fertile materials science research field aiming to achieve a better understanding of the interplay between industrial processing, microstructure development, and the resulting material properties. The Handbook of Research on Advancements in the Processing, Characterization, and Application of Lightweight Materials provides the recent advancements in the lightweight mat materials processing, manufacturing, and characterization. This book identifies the need for modern tools and techniques for designing lightweight materials and addresses multidisciplinary approaches for applying their use. Covering topics such as numerical optimization, fatigue characterization, and process evaluation, this text is an essential resource for materials engineers,

manufacturers, practitioners, engineers, academicians, chief research officers, researchers, students, and vice presidents of research in government, industry, and academia.

Blockchain technology has the potential to utterly transform supply chains, streamline processes, and improve the whole of security. Manufacturers across the globe face challenges with forecasting demand, controlling inventory, and accelerating digital transformation to cater to the challenges of changing market dynamics and evolving customer expectations. Hence, blockchain should be seen as an investment in future-readiness and customer-centricity, not as an experimental technology. Utilizing Blockchain Technologies in Manufacturing and Logistics Management explores the strengths of blockchain adaptation in manufacturing industries and logistics management, which include product traceability, supply chain transparency, compliance monitoring, and auditability, and also examines the current open issues and future research trends of blockchain. Leveraging blockchain technology into a manufacturing enterprise can enhance its security and reduce the rates of systematic failures. Covering topics such as fraud detection, Industry 4.0, and security threats, this book is a ready premier reference for graduate and post-graduate students, academicians, researchers, industrialists, consultants, and entrepreneurs, as well as micro, small, and medium enterprises.

Examining Cloud Computing Technologies Through the Internet of Things
Applications of Big Data in Large and Small-scale Systems
Advancement, Opportunities, and Practices in Telehealth Technology
Applications for Bioremediation of Contaminated Systems
Software Technology and Engineering
Proceedings of ICCIS 2021

Technological advancements have become an integral part of life, impacting the way we work, communicate, make decisions, learn, and play. As technology continually progresses, humans are being outpaced by its capabilities, and it is important for businesses, organizations, and individuals to understand how to optimize data and to implement new

methods for more efficient knowledge discovery and information management and retrieval. Innovative Applications of Knowledge Discovery and Information Resources Management offers in-depth coverage on the pervasiveness of technological change with a collection of material on topics such as the impact of permeable work-life boundaries, burnout and turnover, big data usage, and computer-based learning. It proves a worthy source for academicians, practitioners, IT leaders, IT professionals, and advanced-level students interested in examining the ways in which technology is changing the world. The progressive combination of cloud computing and Internet of Things (IoT) will enable new monitoring services, create powerful processing of sensory data streams, and provide a new method for intelligent perception and connection. Examining Cloud Computing Technologies Through the Internet of Things is a pivotal reference source for scholarly research on the latest and innovative facets of cloud-based Internet of Things systems including technical evaluations and comparisons of existing concepts. Featuring coverage on a broad range of topics such as fog computing, network programming, and data security, this book is geared towards advanced-level students, researchers, and professionals interested in exploring and implementing the IoT and related technologies.

In medicine, a biomarker can be a traceable substance that is introduced into an organism to examine organ function or other aspects of health. Biomarkers are compounds, isolated from serum, urine, or other fluids. They can be used as an indicator of the presence or severity of a particular disease. Biomarkers help in disease prevention, early diagnosis, drug target identification, drug response, etc. Biomarkers play a critical role in improving the drug development process and biomedical research. To throw light on these perspectives and to understand the role of biomarkers in clinical research, this

seminar is organized. Thrust areas of the seminar are: • Disease related biomarkers • Clinical drug development biomarkers • Novel biomarkers.

This book contains best selected research papers presented at ICTCS 2021: Sixth International Conference on Information and Communication Technology for Competitive Strategies. The conference will be held at Jaipur, Rajasthan, India, during December 17 – 18, 2021. The book covers state-of-the-art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation, algorithms and data analytics, and IT security. The book is presented in two volumes.

Proceedings of the National Seminar on Biomarkers: From Research to Clinical Practice (BRCP – 2017)

Utilizing Blockchain Technologies in Manufacturing and Logistics Management

Innovative Applications of Knowledge Discovery and Information Resources Management

Proceedings of RACCCS 2021

BioChar

Refining Biomass Residues for Sustainable Energy and Bioproducts

The rapid growth of industries has resulted in the generation of high volume of solid and liquid waste. Today, there is a need of

Clean and Green technology for the sustainable waste

management. Biochemical and Environmental Bioprocessing:

Challenges and Developments explore the State-of-art green

technologies to manage the waste and to recover value added

products. Microbes play an important role in the bioremediation.

Bioprocess engineering an interdisciplinary connects the Science

and Technology. The bioconversion and bioremediation is essentially required for the management of various hazardous substances in the environment. This book will give an intensive knowledge on the application of Biochemical and Bioprocess technologies for the eco-friendly management of pollution. This book serves as a fundamental to the students, researchers, academicians and Engineers working in the area of Environmental Bioremediation and in the exploration of various bioproducts from waste. Features Reviews various biological methods for the treatment of effluents from Industries by using biomass and biopolymers. Highlights the applications of various bioreactors like Anaerobic Sequential Batch Reactor, Continuously stirred anaerobic digester, Up-flow anaerobic sludge blanket reactor, Fluidized and expanded bed reactors. Presents the cultivation of algae in Open Pond, Closed loop System, and Photo-bioreactors for bioenergy production. Discusses the intensified and integrated biorefinery approach by Microwave Irradiation, Pyrolysis, Acoustic cavitation, Hydrodynamic cavitation, Electron beam irradiation, High pressure Autoclave reactor, Steam explosion and photochemical oxidation. Outlines the usage of microbial fuel cell (MFC) for the production bioelectricity generation in different modules Tubular MFC, Stacked MFC, Separate electrode modules Cutting edge research of synthesis of biogenic nanoparticles and Pigments by green route for the health care and environment management.

This book covers diverse aspects of advanced computer and communication engineering, focusing specifically on industrial and manufacturing theory and applications of electronics,

communications, computing and information technology. Experts in research, industry, and academia present the latest developments in technology, describe applications involving cutting-edge communication and computer systems and explore likely future directions. In addition, access is offered to numerous new algorithms that assist in solving computer and communication engineering problems. The book is based on presentations delivered at ICOCOE 2014, the 1st International Conference on Communication and Computer Engineering. It will appeal to a wide range of professionals in the field, including telecommunication engineers, computer engineers and scientists, researchers, academics and students.

Research on natural fiber composites is an emerging area in the field of polymer science with tremendous growth potential for commercialization. Hybrid Natural Fiber Composites: Material Formulations, Processing, Characterization, Properties, and Engineering Applications provides updated information on all the important classes of natural fibers and their composites that can be used for a broad range of engineering applications. Leading researchers from industry, academia, government, and private research institutions from across the globe have contributed to this highly application-oriented book. The chapters showcase cutting-edge research discussing the current status, key trends, future directions, and opportunities. Focusing on the current state of the art, the authors aim to demonstrate the future potential of these materials in a broad range of demanding engineering applications. This book will act as a one-stop reference resource for academic and industrial researchers working in R&D departments involved

in designing composite materials for semi structural engineering applications. Presents comprehensive information on the properties of hybrid natural fiber composites that demonstrate their ability to improve the hydrophobic nature of natural fiber composites Reviews recent developments in the research and development of hybrid natural fiber composites in various engineering applications Focuses on modern technologies and illustrates how hybrid natural fiber composites can be used as alternatives in structural components subjected to severe conditions

Recent advancements in medical technology, such as telehealth services, have influenced the healthcare sector tremendously. While telehealth technology and its application are not new, it has not been widely utilized despite the numerous benefits and opportunities it provides. However, recent policy changes have lowered obstacles to telehealth access and pushed the use of telemedicine to deliver acute, chronic, primary, and specialist care. In order to successfully integrate this technology in all areas of healthcare, further study is required to fully understand the best practices and challenges of adoption. *Advancement, Opportunities, and Practices in Telehealth Technology* discusses advances in the digital health technology and telemedicine domains as well as key challenges, solutions, and opportunities regarding their use in healthcare. The book also introduces critical communication protocols, interconnections, system designs, and developments that are extensively used in the present-day telehealth process. Covering a wide range of topics such as digital twins, big data analytics, and robotics, this reference work is an

ideal resource for engineers, industry professionals, hospital administration, policymakers, researchers, scholars, academicians, practitioners, instructors, and students.

Intelligent Systems and Computer Technology

Hybrid Natural Fiber Composites

Handbook of Universities

Research Anthology on Big Data Analytics, Architectures, and Applications

Handbook of Research on Advancements in the Processing, Characterization, and Application of Lightweight Materials

A Guide for Machine Vision in Quality Control

Efficient supply chain management is essential for maintaining successful workflows within companies. A lack of decisional, organizational, and information integration can lead to increased cost for a business due to missed opportunities, delays, inefficient inventory decisions, poor capacity allocation, and misuse of resources.

Companies must employ collaborative practices across all functions of the supply chain in order to avoid costly mishaps. *Hierarchical Planning and Information Sharing Techniques in Supply Chain Management* is an essential reference source that discusses information exchanges and approaches of coordination related to operation planning for a better understanding of how hierarchical planning techniques and principles can contribute to the effective and efficient management and planning of supply chain activities. Featuring research on topics such as competitive advantages, information sharing, and transport management, this book is ideally designed for managers, academicians, and practitioners in the field of supply chain management, operations management, logistics, and operations research.

Nanomaterials: Application in Biofuels and Bioenergy Production Systems looks at how biofuels and bioenergy can be part of the "sustainable" solution to the world's energy problems. By addressing bioenergy products compared to their fossil energy counterparts, covering research and development in biofuels applied with nanomaterials this book analyzes the future trends and how biofuels and bioenergy can contribute to its optimization. Starting from fundamentals up to synthesis, characterization and applications of nanomaterials in biofuels and bioenergy production systems, the chapters include the procedures needed for introducing nanomaterials in these specific sectors along with the benefits derived from their applications. Including the hazards and environmental effects of nanomaterials in bioenergy applications, sustainability issues and a techno-economic analysis of the topic, this book provides researchers in bioscience, energy & environment and bioengineering with an up to date look at the full life cycle assessment of nanomaterials in bioenergy. Provides a one stop solution manual for applications of nanomaterials in bioenergy and biofuels Includes biofuel applications with compatible global application case studies Addresses the demand for environmental and techno-economic analysis of nanomaterials applications

About CounsellingGuru CounsellingGuru is a comprehensive guide for all the Engineering aspirants of Tamilnadu. This book is aimed at providing complete information about engineering studies and statistical analysis on Tamilnadu Engineering Admissions [TNEA] counselling. It gives an insight to the reader about various branches of study in engineering and helps in selecting suitable branch of study based on one's personal preference and performance in final school year. **Why CounsellingGuru?** In the recent years, the interest towards engineering has increased among student community in Tamilnadu. Also in the last 13 years, the number of engineering colleges has

increased approximately from 200 to 520+. In this scenario finding information about all the colleges and selecting the right branch in right college has become a tough task for any engineering aspirant. It is not easy, to come up with a right decision for one's career, based on the vast amount of information available in the internet and through other sources. One of the strongest motivations for writing this book is to provide complete information about different engineering branches, colleges, and the counselling process followed in Tamilnadu Engineering Admissions. Analyzing the information about previous year counsellings, helps a student to take an informed decision about the suitable branch and college for his/her rank. Based on the counselling trend from the year 2007 to till date, this book is aimed at addressing the basic questions like 1. For one's TNEA rank, which is the best college and course? 2. What are the top colleges for a particular branch? 3. What does one learn in a particular Engineering branch? 4. Which branch & college was selected by a candidate with the same TNEA rank during the last few years? Counselling Guru will definitely help every engineering aspirant to take right decision for their career.

What is inside? Engineering Branches - Overview, Scope of each branches, who can opt each branch, etc. List of all Engineering Colleges in Tamilnadu - Coming under Anna University Counselling Top Engineering Colleges - Overall (Top 100) and Branch-wise (Top 50) priority list TNEA Historic data analysis from TNEA 2007 onward Counselling Worksheet for TNEA Tips for choosing payment seats Guidelines for students and parents appearing for Engineering counselling The guidelines given in this book are developed by authors based on their rich experience in academics and engineering industry. More Info @ <http://www.counselling.guru/counsellingguru.html> Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about

significant changes and technological advancements. This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; ‘ Next Generation Soft Computing ’ is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, ‘ Evolutionary Networking and Communications ’ focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The book will be of interest to all those working in the fields of intelligent systems and computer technology.

Material Formulations, Processing, Characterization, Properties, and Engineering Applications

Sustainable Practices and Innovations in Civil Engineering

Proceedings of the 6th International Conference on Advance Computing and Intelligent Engineering

Edge Computing and Computational Intelligence Paradigms for the IoT

ICT: Applications and Social Interfaces

Hierarchical Planning and Information Sharing Techniques in Supply Chain Management

This book explores the production and applications of biochar. This material is used to remove contaminants from industrial effluent and to reutilize waste sludge in the production of biofuel/bioenergy. The treatment of wastewater and reuse of waste sludge in value added products manufacturing and environmental clean-up is explored. The proposed book provides a roadmap for future strategies for pollution abatement and sustainable development.

This book features high-quality, peer-reviewed papers from the Fourth International Conference on Recent Advancements in Computer, Communication, and Computational Sciences (RACCCS 2021), held at Aryabhatta College of Engineering and Research Center, Ajmer, India, on August 20 – 21, 2021. Presenting the latest developments and technical solutions in computational sciences, it covers a variety of topics, such as intelligent hardware and software design, advanced communications, intelligent computing technologies, advanced software engineering, the web and informatics, and intelligent image processing. As such, it helps those in the computer industry and academia to use the advances in next-generation communication and computational technology to shape real-world applications.

This book gathers high-quality research papers presented at the

6th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2021) organized by Bhubaneswar Institute of Technology, Bhubaneswar, Odisha, India, during December 23 – 24, 2021. It includes sections describing technical advances and the latest research in the fields of computing and intelligent engineering. Intended for graduate students and researchers working in the disciplines of computer science and engineering, the proceedings also appeal to researchers in the field of electronics, as they cover hardware technologies and future communication technologies.

ICTTE'15

Proceedings of the 9th ICIECE 2021

Global Supply Chains in the Pharmaceutical Industry

Artificial Intelligence & Automation: Technology Changing the World

Biovalorisation of Wastes to Renewable Chemicals and Biofuels

Proceedings of the 1st International Conference on Communication and Computer Engineering