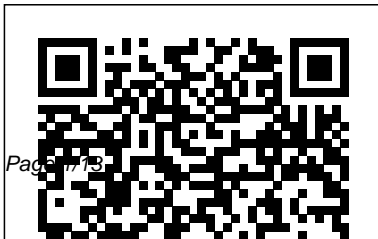

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Engineers for Korea IGI Global

To overcome the constraints of 5G for supporting new challenges, 6G wireless systems must be developed with new and attractive features. These systems are expected to increase performance and maximize quality of service several folds more than 5G along with other exciting features. However, 6G is still in its infancy and must be explored. The Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network discusses the technological feats used in the new 6G wireless systems. It discusses the design, automation, and uses for industry as well as testing strategies. Covering topics such as 6G architecture, smart healthcare, and

wireless communication, this major reference work is an excellent resource for computer scientists, engineers, students and professors in higher education, researchers, and academicians.

Directory of Libraries in India CRC Press
This book features high-quality research papers presented at the 4th International Conference on Computational Intelligence in Pattern Recognition (CIPR 2022), held at Indian Institute of Engineering Science and Technology, Shibpur, Howrah, West Bengal, India, during 23 – 24 April 2022. It includes practical development experiences in various areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural

network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

Intelligent Communication Technologies and Virtual Mobile Networks

International Journal For Trends in Engineering and Technology

The book is a collection of high-quality research papers presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during

February 10-11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.

Emerging Low-Power Semiconductor Devices
Springer Nature

This reference text discusses various security techniques and challenges for cloud data protection from both software and hardware aspects. The text provides readers with an

overview of cloud computing, beginning with historical perspectives on mainframe computers and early networking protocols, moving to current issues such as security of hardware and networks, performance, evolving IoT areas, edge computing, etc. It also deals with threat detection and incident response in cloud security. It covers important topics including operational security agitations in cloud computing, cyber artificial intelligence (AI) platform for cloud security, and security concerns of virtualization in cloud computing. The book will serve as a useful resource for graduate students and professionals in the fields of electrical engineering, electronics engineering, computer science, and information technology.

Privacy and Security Challenges in Cloud Computing Springer

Natural products have historically been key to drug discovery and therapeutic applications throughout

many societies. In the modern era, natural bioactive compounds can be isolated, and their effects can be further studied for more successful outcomes. It is essential to study these natural bioactive compounds to enhance pharmaceuticals and drug discovery. Isolation, Characterization, and Therapeutic Applications of Natural Bioactive Compounds examines the applications of natural bioactive compounds from a health perspective. It discusses medicinal and therapeutic applications of natural bioactive molecules as well as the biological activities of different natural products and their properties. Covering topics such as drug discovery, government regulations, and phytochemical extraction, this premier reference source is an excellent resource for pharmacists, medical practitioners, phytologists, hospital administrators, government officials, faculty and students of higher education, librarians, researchers, and academicians.

Proceedings of International Conference on

Innovations in Information and Communication Technologies IGI Global
The Third Revised And Enlarged Edition Of The Directory Of Libraries In India Contains Much Larger Number Of Addresses Of Libraries In India. Special Chapters Have Been Added On Addresses Of Institutions Offering Courses On Important Subjects Like Management, Medicine And Nursing, Engineering And Technology, Architecture, Law, Sports Etc. It Is Hoped That The Directory In Its Present Form Would Be Found Highly Useful By Publishers And Booksellers In Mailing Their Publicity Material. The Directory Would Also Be Useful To Librarians And Others Concerned With Educational Institutions And Organisations For Getting Information About Libraries In India.

High-k Materials in Multi-Gate FET Devices
Springer Nature
This book gives insight into the emerging semiconductor devices from their applications in

electronic circuits. It discusses the challenges in the field of engineering and applications of advanced low-power devices. Emerging Low-Power Semiconductor Devices: Applications for Future Technology Nodes offers essential exposure to low-power devices, and applications in wireless, biosensing, and circuit domains. This book provides a detailed discussion on all aspects, including the current and future scenarios related to the low-power device. The book also presents basic knowledge about field-effect transistor (FET) devices and introduces emerging and novel FET devices. The chapters include a review of the usage of FET devices in various domains like biosensing, wireless, and cryogenics applications. The chapters also explore device-circuit co-design issues in the digital and analog domains. The content is presented in an easy-to-follow manner that makes it ideal for individuals new to the subject. This book is intended for scientists, researchers, and postgraduate students looking for an understanding of device physics,

circuits, and systems.

Computational Intelligence in Data Mining CRC Press

The field of healthcare is seeing a rapid expansion of technological advancement within current medical practices. The implementation of technologies including neural networks, multi-model imaging, genetic algorithms, and soft computing are assisting in predicting and identifying diseases, diagnosing cancer, and the examination of cells. Implementing these biomedical technologies remains a challenge for hospitals worldwide, creating a need for research on the specific applications of these computational techniques. *Deep Neural Networks for Multimodal Imaging and Biomedical Applications* provides research exploring the theoretical and practical aspects of emerging data computing methods and imaging techniques within healthcare and biomedicine. The publication provides a complete set of information in a single module starting from

developing deep neural networks to predicting disease by employing multi-modal imaging. Featuring coverage on a broad range of topics such as prediction models, edge computing, and quantitative measurements, this book is ideally designed for researchers, academicians, physicians, IT consultants, medical software developers, practitioners, policymakers, scholars, and students seeking current research on biomedical advancements and developing computational methods in healthcare.

Innovations in Information and Communication Technologies Springer Nature

The field of engineering is becoming increasingly interdisciplinary, and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of

expertise. However, studies have shown that quality information-finding skills often tend to be lacking in the engineering profession.

Using the Engineerin

Engineers and Engineering CRC Press

Nanostructured, Functional, and Flexible
Materials for Energy Conversion and Storage

Systems gathers and reviews developments within the field of nanostructured functional materials towards energy conversion and storage. Contributions from leading research groups involved in interdisciplinary research in the fields of chemistry, physics and materials science and engineering are presented.

Chapters dealing with the development of nanostructured materials for energy conversion processes, including oxygen reduction, methanol oxidation, oxygen evolution, hydrogen evolution, formic acid oxidation and

solar cells are discussed. The work concludes with a look at the application of nanostructured functional materials in energy storage system, such as supercapacitors and batteries. With its distinguished international team of expert contributors, this book will be an indispensable tool for anyone involved in the field of energy conversion and storage, including materials engineers, scientists and academics. Covers the importance of energy conversion and storage systems and the application of nanostructured functional materials toward energy-relevant catalytic processes Discusses the basic principles involved in energy conversion and storage systems Presents the role of nanostructured functional materials in the current scenario of energy-related research and development
The National Engineer Atlantic Publishers & Dist
This book is as an extension of previous book

"Computer Vision and Machine Learning in Agriculture" for academicians, researchers, and professionals interested in solving the problems of agricultural plants and products for boosting production by rendering the advanced machine learning including deep learning tools and techniques to computer vision algorithms. The book contains 15 chapters. The first three chapters are devoted to crops harvesting, weed, and multi-class crops detection with the help of robots and UAVs through machine learning and deep learning algorithms for smart agriculture. Next, two chapters describe agricultural data retrievals and data collections. Chapters 6, 7, 8 and 9 focuses on yield estimation, crop maturity detection, agri-food product quality assessment, and medicinal plant recognition, respectively. The remaining six chapters concentrates on optimized disease recognition through computer vision-based machine and deep learning strategies.
Engineering Education Springer Nature

Molecular modeling (MM) tools offer significant benefits in the design of industrial chemical plants and material processing operations. While the role of MM in biological fields is well established, in most cases MM works as an accessory in novel products/materials development rather than a tool for direct innovation. As a result, MM engineers and practitioners are often seized with the question: "How do I leverage these tools to develop novel materials or chemicals in my industry?" Molecular Modeling for the Design of Novel Performance Chemicals and Materials answers this important question via a simple and practical approach to the MM paradigm. Using case studies, it highlights the importance and usability of MM tools and techniques in various industrial applications. The book presents detailed case studies demonstrating diverse

applications such as mineral processing, pharmaceuticals, ceramics, energy storage, electronic materials, paints, coatings, agrochemicals, and personal care. The book is divided into themed chapters covering a diverse range of industrial case studies, from pharmaceuticals to cement. While not going too in-depth into fundamental aspects, the book covers almost all paradigms of MM, and references are provided for further learning. The text includes more than 100 color illustrations of molecular models.

Bulletin IGI Global

The International Conference on “ Computational Intelligence in Data Mining ” (ICCIDM), after three successful versions, has reached to its fourth version with a lot of aspiration. The best selected conference papers are reviewed and

compiled to form this volume. The proceedings discusses the latest solutions, scientific results and methods in solving intriguing problems in the fields of data mining, computational intelligence, big data analytics, and soft computing. The volume presents a sneak preview into the strengths and weakness of trending applications and research findings in the field of computational intelligence and data mining along with related field.

History of Science, Philosophy and Culture in Indian Civilization: pt. 1. Science, technology, imperialism and war Springer Nature

This book gathers selected papers presented at the International Conference on Innovations in Information and Communication Technologies (ICI2CT 2020), held at National University of Singapore, Singapore, during 18 – 19 December

2020. It presents the works on the intersection of the Computer Science and Communication Engineering. Topics covered in the book include communications engineering, Internet and web technology, computer and information science, artificial intelligence, data science and management, and ICT applications.

Recent Advances in Civil Engineering
Springer Nature

Augmented and virtual reality (AR and VR) offer exciting opportunities for human computer interaction (HCI), the enhancement of places, and new business cases. Though VR is most popular for video games, especially among younger generations, AR and VR can also be used in applications that include military, medical, navigational, tourism, marketing, and maintenance uses. Research in these

technologies along with 3D user interfaces has gained momentum in recent years and has solidified it as a staple technology for the foreseeable future. Multimedia and Sensory Input for Augmented, Mixed, and Virtual Reality includes a collection of business case studies covering a variety of topics related to AR, VR, and mixed reality (MR) including their use in possible applications. This book also touches on the diverse uses of AR and VR in many industries and discusses their importance, challenges, and opportunities. While discussing the use these technologies in sectors such as education, healthcare, and computer science, this book is ideal for computer scientists, engineers, practitioners, stakeholders, researchers, academicians, and students who are interested in the latest

research on augmented, mixed, and virtual reality.

Computer Vision and Machine Learning in Agriculture, Volume 2 Springer

The first decade of 21st century witnessed several changes, world wide, in technology management, restructuring and down sizing global trade and competition, international quality standards, information exchange, lean manufacturing and virtual enterprises etc. In this age of globalization, the survival of any industry mainly depends on its cost of production and quality of its products. With the rapid growth of competition and shrinking product life cycle value engineering has become an essential tool for attaining a competitive edge. This volume provides a logistic view of value engineering. The chapters written by experts in their respective fields are organized

into different sections covering. Basic concepts of value engineering Information Technology and Value Engineering Systems Situational Case Studies / Industrial Examples Role of value engineering in profit improvement and effectiveness.

Handbook of Universities CRC Press

This volume constitutes reviewed and selected papers from the 11th International Advanced Computing Conference, IACC 2021, held in December 2021. The 47 full papers and 4 short papers presented in the volume were thoroughly reviewed and selected from 246 submissions. The papers are organized in the following topical sections: application of artificial intelligence and machine learning in healthcare; application of AI for emotion and behaviour prediction; problem solving using reinforcement learning and analysis of data; advance uses of RNN and regression techniques; special intervention of AI.

Handbook of Universities Springer Nature
This book follows the fraught attempts of engineers to identify with Korea as a whole. It is for engineers, both Korean and non-Korean, who seek to become better critical analysts of their own expertise, identities, and commitments. It is for non-engineers who encounter or are affected by Korean engineers and engineering, and want to understand and engage them. It is for researchers who serve as critical participants in the making of engineers and puzzle over the contents and effects of techno-national formation.

Isolation, Characterization, and Therapeutic Applications of Natural Bioactive Compounds Atlantic Publishers & Dist

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.

Computational Intelligence in Pattern Recognition
IGI Global

Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. It is necessary to develop new techniques for managing data in order to ensure adequate usage. Deep learning, a subset of artificial intelligence and

machine learning, has been recognized in various real-world applications such as computer vision, image processing, and pattern recognition. The deep learning approach has opened new opportunities that can make such real-life applications and tasks easier and more efficient. *Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications* is a vital reference source that trends in data analytics and potential technologies that will facilitate insight in various domains of science, industry, business, and consumer applications. It also explores the latest concepts, algorithms, and techniques of deep learning and data mining and analysis. Highlighting a range of topics such as natural language processing, predictive analytics, and deep neural networks, this multi-volume book is ideally designed for computer engineers, software developers, IT professionals, academicians, researchers, and upper-level students seeking current research on the latest trends in the field of deep learning.