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Fundamental Of Electrical Engineering And Applications Springer Nature

"This book provides the latest empirical research and theoretical frameworks in the area of information security, presenting research on developing sufficient security measures for new environments by discussing challenges faced by researchers as well as unconventional solutions to these problems"--Provided by publisher.

ICCWS 2020 15th International Conference on Cyber Warfare and Security Springer Nature

With the recent growth of big data and the internet of things (IoT), individuals can now upload, retrieve, store, and collect massive amounts of information to help drive decisions and optimize processes. Due to this, a new age of predictive computing is taking place, and data can now be harnessed to predict unknown occurrences or probabilities based on data collected in real time. **Predictive Intelligence Using Big Data and the Internet of Things** highlights state-of-the-art research on predictive intelligence using big data, the IoT, and related areas to ensure quality assurance and compatible IoT systems. Featuring coverage on predictive application scenarios to discuss these breakthroughs in real-world settings and various methods, frameworks, algorithms, and security concerns for predictive intelligence, this book is ideally designed for academicians, researchers, advanced-level students, and technology developers.

1999 IEEE AFRICON Springer Nature

This book constitutes the proceedings of the 16th IFIP WG 11.12 International Symposium on Human Aspects of Information Security and Assurance, HAISA 2022, held in Mytilene, Lesbos, Greece, in July 2022. The 25 papers presented in this volume were carefully reviewed and selected from 30 submissions. They are organized in the following topical sections: cyber security education and training; cyber security culture; privacy; and cyber security management.

Is There an Electrical Engineer Inside You? New Age International

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.

Knowledge-Based Intelligent Information and Engineering Systems Springer

More than 30 leading experts from around the world provide comprehensive coverage of various branches of face image analysis, making this text a valuable asset for students, researchers, and practitioners engaged in the study, research, and development of face image analysis techniques.

Advances in Face Image Analysis: Techniques and Technologies IGI Global

This 8-volumes set constitutes the refereed of the 25th International Conference on Pattern Recognition Workshops, ICPR 2020, held virtually in Milan, Italy and rescheduled to January 10 - 11, 2021 due to Covid-19 pandemic. The 416 full papers presented in these 8 volumes were carefully reviewed and selected from about 700 submissions. The 46 workshops cover a wide range of areas including machine learning, pattern analysis, healthcare, human behavior, environment, surveillance, forensics and biometrics, robotics and egovision, cultural heritage and document analysis, retrieval, and women at ICPR2020.

The International Guide to Undergraduate Engineering Programs RAJATH PUBLISHERS

This book provides a comprehensive overview of the latest developments and materials used in electrochemical energy storage and conversion devices, including lithium-ion batteries, sodium-ion batteries, zinc-ion batteries, supercapacitors and conversion materials for solar and fuel cells. Chapters introduce the technologies behind each material, in addition to the fundamental principles of the devices, and their wider impact and contribution to the field. This book will be an ideal reference for researchers and individuals working in industries based on energy storage and conversion technologies across physics, chemistry and engineering. **FEATURES** Edited by established authorities, with chapter contributions from subject-area specialists Provides a comprehensive review of the field Up to date with the latest developments and research Editors Dr. Mesfin A. Kebede obtained his PhD in Metallurgical Engineering from Inha University, South Korea. He is now a principal research scientist at Energy Centre of Council for Scientific and Industrial Research (CSIR), South Africa. He was previously an assistant professor in the Department of Applied Physics and Materials Science at Hawassa University, Ethiopia. His extensive research experience covers the use of electrode materials for energy storage and energy

conversion. Prof. Fabian I. Ezema is a professor at the University of Nigeria, Nsukka. He obtained his PhD in Physics and Astronomy from University of Nigeria, Nsukka. His research focuses on several areas of materials science with an emphasis on energy applications, specifically electrode materials for energy conversion and storage.

Proceedings Springer Nature

This book comprises selected papers from the 14th International Conference on Multimedia and Ubiquitous Engineering (MUE 2020) and the 14th International Conference on Future Information Technology (Future Tech 2020). And this book presents the latest developments in the field of ubiquitous computing technologies. It also discusses the state of the art in the development of computational methods, involving theory, algorithms, numerical simulation, error and uncertainty analysis, and novel applications of new processing techniques in engineering, science, and other disciplines related to ubiquitous computing. This book is a great resource for students, researchers, and professors working in the field of ubiquitous computing.

ECCWS 2017 16th European Conference on Cyber Warfare and Security Springer

During recent decades we have witnessed not only the introduction of automation into the work environment but we have also seen a dramatic change in how automation has influenced the conditions of work. While some 30 years ago the addition of a computer was considered only for routine and boring tasks in support of humans, the balance has dramatically shifted to the computer being able to perform almost any task the human is willing to delegate. The very fast pace of change in processor and information technology has been the main driving force behind this development. Advances in automation and especially Artificial Intelligence (AI) have enabled the formation of a rather unique team with human and electronic members. The team is still supervised by the human with the machine as a subordinate associate or assistant, sharing responsibility, authority and autonomy over many tasks. The requirement for teaming human and machine in a highly dynamic and unpredictable task environment has led to impressive achievements in many supporting technologies. These include methods for system analysis, design and engineering and in particular for information processing, for cognitive and complex knowledge [1] engineering .

Electrical Engineering at the University of Sydney Marshall Cavendish International Asia Pte Ltd

E-Commerce has brought about many changes in organizations and has had significant impacts on the quality of life that is experienced by individuals or even indirectly as members of society. The need to have fast and efficient information on products is crucial to our socially conscious and technologically dependent society; hence, information technology has increased the intolerable burden of handling the increasing amount of information and human errors which the society is expected to contend with. The Economic and Social Impacts of E-Commerce addresses issues associated with the advent of e-commerce, and its significance within society.

Intelligent Computing Springer Science & Business Media

This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that have been developed and implemented. The Computing Conference 2020, which provided a venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to

be included in these proceedings. Featuring state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area.

BASIC ELECTRICAL ENGINEERING Springer Nature
The book provides an encompassing overview of all aspects relating to the sharing economy paradigm in different fields of study, and shows the ongoing research efforts in filling previously identified gaps in understanding in this area. Control and optimization analytics for the sharing economy explores bespoke analytics, tools, and business models that can be used to help design collaborative consumption services (the shared economy). It provides case studies of collaborative consumption in the areas of energy and mobility. The contributors review successful examples of sharing systems, and explore the theory for designing effective and stable shared-economy models. They discuss recent innovations in and uses of shared economy models in niche areas, such as energy and mobility. Readers learn the scientific challenging issues associated with the realization of a sharing economy. Conceptual and practical matters are examined, and the state-of-the-art tools and techniques to address such applications are explained. The contributors also show readers how topical problems in engineering, such as energy consumption in power grids, or bike sharing in transportation networks, can be formulated and solved from a general collaborative consumption perspective. Since the book takes a mathematical perspective to the topic, researchers in business, computer science, optimization and control find it useful. Practitioners also use the book as a point of reference, as it explores and investigates the analytics behind economy sharing.

The Economic and Social Impacts of E-Commerce Springer

Basic Electrical Engineering Has Been Written As A Core Course For All Engineering Students Viz. Electronics And Communication Engineering, Computer Engineering, Civil Engineering, Mechanical Engineering Etc. Since This Course Will Normally Be Offered At The First Year Level Of Engineering, The Author Has Made Modest Effort To Give In A Concise Form. Various Features Of Basic Electrical Engineering Using Simple Language And Through Solved Examples, Avoiding The Rigorous Of Mathematics. Salient Features * Steady State Analysis Of A.C. Circuits Explained * Network Theorems Explained Using Typical Examples * Analysis Of 3-Phase Circuits And Measurement Of Power In These Circuits Explained * Measuring Instruments Like Ammeter, Voltmeter, Wattmeter And Energy Meter Described * Various Electrical Machines, Like Transformers, D.C. Machines, Single Phase And Three Phase Induction Motors, Synchronous Machines, Servomotors Have Been Described * A Brief View Of Power System Including Conventional And Nonconventional Services Of Electrical Energy Is Given * Numerous Solved Examples And Practice Problems For Thorough Grasp Of The Subject Presented * A Large Number Of Multiple-Choice Questions With Answers Given

Will AI Dictate The Future? S. Chand Publishing

This complete resource on the theory and applications of

reliability engineering, probabilistic models and risk analysis consolidates all the latest research, presenting the most up-to-date developments in this field. With comprehensive coverage of the theoretical and practical issues of both classic and modern topics, it also provides a unique commemoration to the centennial of the birth of Boris Gnedenko, one of the most prominent reliability scientists of the twentieth century. Key features include: expert treatment of probabilistic models and statistical inference from leading scientists, researchers and practitioners in their respective reliability fields detailed coverage of multi-state system reliability, maintenance models, statistical inference in reliability, systemability, physics of failures and reliability demonstration many examples and engineering case studies to illustrate the theoretical results and their practical applications in industry Applied Reliability Engineering and Risk Analysis is one of the first works to treat the important areas of degradation analysis, multi-state system reliability, networks and large-scale systems in one comprehensive volume. It is an essential reference for engineers and scientists involved in reliability analysis, applied probability and statistics, reliability engineering and maintenance, logistics, and quality control. It is also a useful resource for graduate students specialising in reliability analysis and applied probability and statistics. Dedicated to the Centennial of the birth of Boris Gnedenko, renowned Russian mathematician and reliability theorist

Commerce, Complexity, and Evolution Springer

This book showcases the state of the art in the field of sensors and microsystems, revealing the impressive potential of novel methodologies and technologies. It covers a broad range of aspects, including: bio-, physical and chemical sensors; actuators; micro- and nano-structured materials; mechanisms of interaction and signal transduction; polymers and biomaterials; sensor electronics and instrumentation; analytical microsystems, recognition systems and signal analysis; and sensor networks, as well as manufacturing technologies, environmental, food and biomedical applications. The book gathers a selection of papers presented at the 20th AISEM National Conference on Sensors and Microsystems, held in Naples, Italy in February 2019, the event brought together researchers, end users, technology teams and policy makers.

Electrical Engineering AG Publishing House

With the aid of the fundamentals of Electrical Engineering and Applications, students may study the principles of electrical engineering with little difficulty. The whole learning experience will be improved, and students will be better able to apply the principles of electrical engineering to challenges in their respective disciplines. Both first-year electrical engineering students and non-majors taking a survey course in the field will find this book's coverage of circuit analysis, digital systems, electronics, and electromechanics accessible and engaging. Learning about and building things with electronics can be, and should be, enjoyable. This text, therefore, takes an approach that is intended to make learning about electrical engineering fundamentals fun. Fundamentals of Electrical Engineering and Applications deals with the study, design, and application of equipment, devices, and systems that use electricity, electronics, and electromagnetism. Electrical Engineering concentrates on the representation, manipulation, transmission, and reception of information by electrical means.

Research and Graduate Study in Electrical Engineering IGI Global

This book constitutes the proceedings of the First International Conference on Smart Multimedia, ICSM 2018, which was held in Toulon, France, in August 2018. The 39 papers presented were selected from about 100 submissions and are grouped in sections on social, affective and cognition analysis, person-centered smart multimedia: serving people with disabilities to the general population, haptic and robots for smart multimedia applications, MR, 3D, underwater image processing, smart signal processing meets smart sensing, visual behavior analysis: methods and applications, video analysis, learning,

low-level vision, miscellaneous.

Basic Electrical Engineering Semester-II (RTM) Nagpur University Springer Nature

This book is prepared as per the syllabus of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Karnataka for first year B. Tech (Engineering) course using the reference books given in the course syllabus. Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of topics.

Electrical Engineering (as Per Uptu Syllabus) Cambridge University Press

Evolutionary approach to systems from the entire economy to the behaviour of single markets.

Proceedings of the 18th International Symposium on Advancement of Construction Management and Real Estate CRC Press

This is a collection of theses completed to fulfill B.S. requirements in the College of Engineering, University of Wisconsin from 1895 to 1962.