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Intelligent and Efficient Electrical Systems M.C. Bhuvaneswari 2017-12-21 This book presents selected papers from International Conference on Intelligent and Efficient Electrical Systems (ICIEES'17). The volume brings together content from both industry and academia. The book focuses on energy efficiency in electrical systems and covers en trende topics such as control of renewable energy systems. The collaborative industry-academia perspective of the conference ensures that equal emphasis is laid on novel topics and practical applications. The contents of this volume will prove useful to researchers and practicing engineers alike.

Materials Science of DNA Jung-II Jin 2016-04-19 The field of materials science and technology has undergone revolutionary advances due to the development of novel analytical tools, functional materials, and multidisciplinary approaches to engineering. Additionally, theoretical predictions combined with increasingly improved models and computational capabilities are making impressive contribution

Bond Graphs for Modelling, Control and Fault Diagnosis of Engineering Systems Wolfgang Borutzky 2016-12-31 This book presents theory and latest application work in Bond Graph methodology with a focus on: • Hybrid dynamical system models, •

Model-based fault diagnosis, model-based fault tolerant control, fault prognosis • and also addresses • Open thermodynamic systems with compressible fluid flow, • Distributed parameter models of mechanical subsystems. In addition, the book covers various applications of current interest ranging from motorised wheelchairs, in-vivo surgery robots, walking machines to wind-turbines. The up-to-date presentation has been made possible by experts who are active members of the worldwide bond graph modelling community. This book is the completely revised 2nd edition of the 2011 Springer compilation text titled Bond Graph Modelling of Engineering Systems – Theory, Applications and Software Support. It extends the presentation of theory and applications of graph methodology by new developments and latest research results. Like the first edition, this book addresses readers in academia as well as practitioners in industry and invites experts in related fields to consider the potential and the state-of-the-art of bond graph modelling.

The Innovation Factory Prith Banerjee, Ph.D. 2022-08-01 Even though a quarter of a century has passed since Clayton Christensen's *The Innovator's Dilemma* was first published, business leaders still find themselves confronted with the same problem. A profound disconnect too often exists between innovation development and business outcomes. Companies say they want the stimulus of innovation and even handsomely fund their in-house R&D. Yet when it comes time for a call to action, such as launching a new product or service, they often back away from the risk. Sadly, the American corporation's decision makers all too often decide to play it safe, and the innovation doesn't go into play at all. In my thirty-five-year technology career, from academia, to my own start-ups, and to managing innovation in enterprise environments, I have encountered many large companies who have R&D collaborations with academia and with start-ups. Open innovation with academia and start-ups, the focal point of this book, is not new. Unfortunately, many of these collaborations do not result in true innovation. My book explores the ingredients of the secret sauce required to generate successful open innovation. *The Innovation Factory* provides essential, practical guidance for all parties wishing to work toward successful collaborations that achieve innovation in its many aspects. Perhaps you have already launched some partnerships; if so, this book will help both of you make them more successful. Whether you have or have not, this is the only book you need to launch and partner in open innovation initiatives.

Mobile Computing: Concepts, Methodologies, Tools, and Applications Taniar, David 2008-11-30 "This multiple-volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers"--Provided by publisher.

Power Systems & Smart Energies Faouzi Derbel 2020-02-10 The book presents selected, extended and peer reviewed papers from the International Multiconference on System, Automation and Control held Leipzig in 2016. These are complemented with solicited contributions by international experts. This volume is devoted to power electronics in renewable energy systems as well as to hybrid renewable energy systems.

Handbook of Research on Driving Competitive Advantage through Sustainable, Lean, and Disruptive Innovation Al-Hakim, Latif 2016-04-22 The global market is constantly evolving and it has become essential for organizations to employ new methods of

appealing to customers in order to stay abreast on current trends within the world economy. The Handbook of Research on Driving Competitive Advantage through Sustainable, Lean, and Disruptive Innovation features theoretical development and empirical research in social media platforms, internet usage, big data analytics, and smart computing, as well as other areas of organizational innovation. Highlighting implementation challenges facing innovative processes, this publication is a critical reference source for researchers, students, professionals, managers, and decision makers interested in novel strategies being employed by organizations in an effort to improve their standings on the global market.

International Conference on Computer Applications - Telecommunications 2011 "This proceeding is part of International Conference on Computer Applications 2010 - Telecommunications track which was held in Pondicherry, India from 24 Dec 2010 and 27 Dec 2010"--Pref.

Advances in Electrical and Computer Technologies Thangaprakash Sengodan 2022-07-27 This book comprises select proceedings of the International Conference on Advances in Electrical and Computer Technologies 2021 (ICAECT 2021). The papers presented in this book are peer-reviewed and cover the latest research in electrical, electronics, communication, and computer engineering. Topics covered include smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geographic information systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broadband communication, mobile and optical communication, network security, VLSI, embedded systems, optical networks, and wireless communication. The book is useful for students and researchers working in the different overlapping areas of electrical, electronics, and communication engineering.

Transforming E-Business Practices and Applications: Emerging Technologies and Concepts Lee, In 2009-12-31 Transforming E-Business Practices and Applications: Emerging Technologies and Concepts presents an integrated view of the latest issues and technologies evolving from business transactions and support.

Emerging Markets from a Multidisciplinary Perspective Yogesh K. Dwivedi 2018-04-11 This book examines prominent issues in the Emerging Markets (EM) from a variety of disciplines in order to make useful societal contributions through knowledge exchange. EMs offer enormous opportunities, but realizing them is both challenging and risky due to inherent uncertainties of such markets. EM's also have unique characteristics that makes them different from developed countries. This causes implications for both theory and practice. These markets necessitate substantial adaptations of developed theories and approaches employed in the Western world. This book investigates problems specific to emerging markets, and identifies new theoretical constructs, hypotheses (re)development, and emphasizes institutional contexts. The chapters in this book establish new conceptual and theoretical paradigms from multidisciplinary perspectives concentrated in the areas of information systems, electronic government, and digital and social media matters. The book focuses on topics in these areas such as digital

enterprises, sustainability, telemedicine, and Information Communication Technology (ICT) and surveys the potential challenges and opportunities that may arise. These concepts and topics covered in this book are vital for making the global economy more equitable and sustainable.

Technology Innovation in Mechanical Engineering Prem Kumar Chaurasiya 2022-04-29 This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine, locomotive and energy sectors. The topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics, Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning, Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and experimental techniques in the area of Mechanical Engineering. The book will be helpful for academics, including graduate students and researchers, as well as professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors.

Technological Advancement in Developed and Developing Countries: Discoveries in Global Information Management Hunter, M. Gordon 2009-12-31 "This book uses a multi-cultural approach to discuss many issues relating to information systems, and takes many different perspectives on this intriguing topic"--Provided by publisher.

Hidden Markov Models Horst Bunke 2001-06-04 Hidden Markov models (HMMs) originally emerged in the domain of speech recognition. In recent years, they have attracted growing interest in the area of computer vision as well. This book is a collection of articles on new developments in the theory of HMMs and their application in computer vision. It addresses topics such as handwriting recognition, shape recognition, face and gesture recognition, tracking, and image database retrieval. This book is also published as a special issue of the International Journal of Pattern Recognition and Artificial Intelligence (February 2001). Contents: Introduction: A Simple Complex in Artificial Intelligence and Machine Learning (B H Juang)An Introduction to Hidden Markov Models and Bayesian Networks (Z Chahramani)Multi-Lingual Machine Printed OCR (P Natarajan et al.)Using a Statistical Language Model to Improve the Performance of an HMM-Based Cursive Handwriting Recognition System (U-V Marti & H Bunke)A 2-D HMM Method for Offline Handwritten Character Recognition (H-S Park et al.)Data-Driven Design of HMM Topology for Online Handwriting Recognition (J J Lee et al.)Hidden Markov Models for Modeling and Recognizing Gesture Under

Variation (A D Wilson & A F Bobick) Sentence Lipreading Using Hidden Markov Model with Integrated Grammar (K Yu et al.) Tracking and Surveillance in Wide-Area Spatial Environments Using the Abstract Hidden Markov Model (H H Bui et al.) Shape Tracking and Production Using Hidden Markov Models (T Caelli et al.) An Integrated Approach to Shape and Color-Based Image Retrieval of Rotated Objects Using Hidden Markov Models (S Müller et al.) Readership: Graduate students of computer science, electrical engineering and related fields, as well as researchers at academic and industrial institutions. Keywords: Hidden Markov Models; Gesture Recognition; Bayesian Networks; Optical Character Recognition; Handwriting Character Recognition; Cartography; Shape Extraction; Image Feature Extraction.

Microelectronics, Electromagnetics and Telecommunications Jaume Anguera 2018-01-25 The volume contains 94 best selected research papers presented at the Third International Conference on Micro Electronics, Electromagnetics and Telecommunications (ICMEET 2017) The conference was held during 09-10, September, 2017 at Department of Electronics and Communication Engineering, BVRIT Hyderabad College of Engineering for Women, Hyderabad, Telangana, India. The volume includes original and application based research papers on microelectronics, electromagnetics, telecommunications, wireless communications, signal/speech/video processing and embedded systems.

Proceedings of the 6th International Conference on Electrical, Control and Computer Engineering Zainah Md. Zain

High Performance Logistics Thorsten Blecker 2009

Journal of the Optical Society of America 1991

CIGOS 2021, Emerging Technologies and Applications for Green Infrastructure Cuong Ha-Minh 2021-10-28 This book highlights the key role of green infrastructure (GI) in providing natural and ecosystem solutions, helping alleviate many of the environmental, social, and economic problems caused by rapid urbanization. The book gathers the emerging technologies and applications in various disciplines involving geotechnics, civil engineering, and structures, which are presented in numerous high-quality papers by worldwide researchers, practitioners, policymakers, and entrepreneurs at the 6th CIGOS event, 2021.

Moreover, by sharing knowledge and experiences around emerging GI technologies and policy issues, the book aims at encouraging adoption of GI technologies as well as building capacity for implementing GI practices at all scales. This book is useful for researchers and professionals in designing, building, and managing sustainable buildings and infrastructure.

E-Services Adoption 2015-10-28 Volume 23B includes two chapters covering problems and implementations of solutions in e-services adoption processes in developing nations. These are exciting and useful chapters for executives and researchers seeking knowledge and theory of how to influence e-service adoptions in developing nations!

Nanomaterials R. Praveen Kumar 2021-05-19 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

Basic Electrical, Electronics and Computer Engineering N. Premkumar 2001

Smart Grids and Micro-Grids P. Prajof 2022-03-22 SMART GRIDS AND MICROGRIDS Written and edited by a team of experts in the field, this is the most comprehensive and up-to-date study of smart grids and microgrids for engineers, scientists, students, and other professionals. The power supply is one of the most important issues of our time. In every country, all over the world, from refrigerators to coffee makers to heating and cooling, almost everyone in the world needs to have access to power. As the global demand rises, new methods of delivering power, such as smart grids and microgrids, have, out of necessity or choice, been developed and researched. In this book, modern and advanced concepts of both microgrid and smart grid technology are introduced. Beginning from the brief fundamental concepts of microgrids and its various constituents this team of experts discusses different architectures, control issues, communication challenges, measurement, stability, power quality and mitigation, protection, and power electronic aspects of the microgrid system. Through this book, tools and techniques needed to design both microgrids and smart grids are discussed. Recent and developing topics like smart meter impact, remote data monitoring, communication protocols, cybersecurity, artificial intelligence, big data, IoT, and many others are covered. Furthermore, this new volume also covers simulation and stability analysis tools pertaining to microgrids and smart grids. Throughout the book, detailed examples of microgrid and smart grid design and development strategies are provided, based on different constraints and requirements. Case studies, numerical models, and design examples are also included. Whether for the veteran engineer or student, this is a must-have volume for any library. Audience: Engineers, scientists, industry professionals, students, and other lay people involved in the business of smart grids and microgrids

Engineering Psychology and Cognitive Ergonomics Don Harris 2009-07-15 The 13th International Conference on Human-Computer Interaction, HCI International 2009, was held in San Diego, California, USA, July 19-24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on

Augmented Cognition, the Second International Conference on Digital Human Mod- ing, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and gove- mental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers - dress the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

Basic Electrical and Electronics Engineering N. Premkumar 2007

Wireless Technologies: Concepts, Methodologies, Tools and Applications Management Association, Information Resources 2011-08-31 Contains the latest research, case studies, theories, and methodologies within the field of wireless technologies.

Advanced Multimedia and Ubiquitous Engineering James J. Park 2018-11-28 This book presents the combined proceedings of the 12th International Conference on Multimedia and Ubiquitous Engineering (MUE 2018) and the 13th International Conference on Future Information Technology (Future Tech 2018), both held in Salerno, Italy, April 23 - 25, 2018. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect 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.

Electronic Engineering 1978

Neural Information Processing Tingwen Huang 2012-11-05 The five volume set LNCS 7663, LNCS 7664, LNCS 7665, LNCS 7666 and LNCS 7667 constitutes the proceedings of the 19th International Conference on Neural Information Processing, ICONIP 2012, held in Doha, Qatar, in November 2012. The 423 regular session papers presented were carefully reviewed and selected from numerous submissions. These papers cover all major topics of theoretical research, empirical study and applications of neural information processing research. The 5 volumes represent 5 topical sections containing articles on theoretical analysis, neural modeling, algorithms, applications, as well as simulation and synthesis.

The International Journal of Microcircuits and Electronic Packaging 1998

Advances in Smart Grid Technology Pierluigi Siano 2020-09-22 This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume focuses on the different renewable energy sources which are integrated in a smart grid and their operation both in the grid connected mode and islanded mode. The contents highlight the role of power converters in the smart grid environment, battery management, electric vehicular technology and electric charging station as a load for the power network. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

Information Systems Innovation and Diffusion Tor Jermud Larsen 1998-01-01 Organizations report that as much as 50% of

investments in IS and IT solutions are judged to be outright failures or deemed highly unsatisfactory. Information Systems Innovation and Diffusion: Issues and Directions reports on innovation and diffusion research and presents theory-based guidelines that will increase the business value of IS/IT investments.

The Palgrave Handbook of Managing Continuous Business Transformation Horst Ellermann 2016-12-27 This handbook provides a comprehensive and unparalleled reference point for studying continuous business transformation. Asserting that change will be the new normal and highlighting the fact that business transformation can never be complete, this important resource is a tool for coping with ongoing change in order to become and stay resilient, the predominant concern of executives across industries. Containing case study material to illustrate issues and solutions, The Palgrave Handbook of Managing Continuous Business Transformation takes an interdisciplinary approach weaving together strategic concepts with real-life experiences, connecting human resource issues with shifts in information technology and linking customers with the businesses from which they buy. Structured into four parts; transformational shifts, achieving customer centricity, dealing with new technology and leading the change, this handbook is crucial reading for academics, scholars and practitioners of business transformation.

Scientific and Technical Aerospace Reports 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Advances in Automation, Signal Processing, Instrumentation, and Control Venkata Lakshmi Narayana Komanapalli 2021-03-04 This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields.

Directory - The Institution of Engineers (India). Institution of Engineers (India) 1972

Proceedings of First International Conference on Computational Electronics for Wireless Communications Sanyog Rawat 2022-01-03 This book includes high-quality papers presented at Proceedings of First International Conference on Computational Electronics for Wireless Communications (ICWC 2021), held at National Institute of Technology, Kurukshetra, Haryana, India, during June 11–12, 2021. The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics and wireless networks.

Methodologies and Applications of Computational Statistics for Machine Intelligence Samanta, Debabrata 2021-06-25 With the

field of computational statistics growing rapidly, there is a need for capturing the advances and assessing their impact. Advances in simulation and graphical analysis also add to the pace of the statistical analytics field. Computational statistics play a key role in financial applications, particularly risk management and derivative pricing, biological applications including bioinformatics and computational biology, and computer network security applications that touch the lives of people. With high impacting areas such as these, it becomes important to dig deeper into the subject and explore the key areas and their progress in the recent past. Methodologies and Applications of Computational Statistics for Machine Intelligence serves as a guide to the applications of new advances in computational statistics. This text holds an accumulation of the thoughts of multiple experts together, keeping the focus on core computational statistics that apply to all domains. Covering topics including artificial intelligence, deep learning, and trend analysis, this book is an ideal resource for statisticians, computer scientists, mathematicians, lecturers, tutors, researchers, academic and corporate libraries, practitioners, professionals, students, and academicians.

Optics Letters 2001

Electronic Business: Concepts, Methodologies, Tools, and Applications Lee, In 2008-12-31 Enhances libraries worldwide through top research compilations from over 250 international authors in the field of e-business.