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This book provides the state-of-the-art development on security and privacy for fog/edge computing, together with their system architectural support and applications. This book is organized into five parts with a total of 15 chapters. Each area corresponds to an important snapshot. The first part of this book presents an overview of fog/edge computing, focusing on its relationship with cloud technology and the future with the use of 5G communication. Several applications of edge computing are discussed. The second part of this book considers several security issues in fog/edge computing, in-

cluding the secure storage and search services, collaborative intrusion detection method on IoT-fog computing, and the feasibility of deploying Byzantine agreement protocols in untrusted environments. The third part of this book studies the privacy issues in fog/edge computing. It first investigates the unique privacy challenges in fog/edge computing, and then discusses a privacy-preserving framework for the edge-based video analysis, a popular machine learning application on fog/edge. This book also covers the security architectural design of fog/edge computing, including a comprehensive overview of vulnerabilities in fog/edge computing within multiple ar-

chitectural levels, the security and intelligent management, the implementation of network-function-virtualization-enabled multicasting in part four. It explains how to use the blockchain to realize security services. The last part of this book surveys applications of fog/edge computing, including the fog/edge computing in Industrial IoT, edge-based augmented reality, data streaming in fog/edge computing, and the blockchain-based application for edge-IoT. This book is designed for academics, researchers and government officials, working in the field of fog/edge computing and cloud computing. Practitioners, and business organizations (e.g., executives, system

designers, and marketing professionals), who conduct teaching, research, decision making, and designing fog/edge technology will also benefit from this book. The content of this book will be particularly useful for advanced-level students studying computer science, computer technology, and information systems, but also applies to students in business, education, and economics, who would benefit from the information, models, and case studies therein. This book offers insights into the current focus and recent advances in bioremediation and green technology applications for waste minimization and pollution control. Increasing urbanization has an impact on the environment, agriculture and industry, exacerbating the pollution problem and creating an urgent need for sustainable and green eco-friendly remediation technology. Currently, there is heightened interest in environmental research, especially in the area of pollution remediation and waste conversion, and alternative, eco-friendly methods involving better usage of agricultural residues as economically viable substrates for environmental cleanup are

still required. The book offers researchers and scholars inspiration, and suggests directions for specific waste management and pollution control. The research presented makes a valuable contribution toward a sustainable and eco-friendly societal environment.

The book is a collection of high-quality peer-reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems (ICPERES 2014) held at Rajalakshmi Engineering College, Chennai, India. These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies. A hands-on introduction to microcontroller project design with dozens of example circuits and programs. Presents practical designs for use in data loggers, controllers, and other small-computer applications. Example circuits and programs in the book are based on the popular

8052-BASIC microcontroller, whose on-chip BASIC programming language makes it easy to write, run, and test your programs. With over 100 commands, instructions, and operators, the BASIC-52 interpreter can do much more than other single-chip BASICs. Its abilities include floating-point math, string handling, and special commands for storing programs in EPROM, EEPROM, or battery-backed RAM.

This title contains the proceedings of the 2013 5th International Conference on Advanced Computer Control, held in Singapore. The topics covered include: Modern and advanced control strategies; human-machine systems; multimedia and communication systems; database systems; robotics and automation; and much more.

The fields of computer vision and image processing are constantly evolving as new research and applications in these areas emerge. Staying abreast of the most up-to-date developments in this field is necessary in order to promote further research and apply these developments in real-world settings. Computer Vision: Concepts, Methodologies,

Tools, and Applications is an innovative reference source for the latest academic material on development of computers for gaining understanding about videos and digital images. Highlighting a range of topics, such as computational models, machine learning, and image processing, this multi-volume book is ideally designed for academicians, technology professionals, students, and researchers interested in uncovering the latest innovations in the field.

Energy systems are transitioning from conventional energy systems to modernized and smart energy systems. This Special Issue covers new advances in the emerging technologies for modern energy systems from both technical and management perspectives. In modern energy systems, an integrated and systematic view of different energy systems, from local energy systems and islands to national and multi-national energy hubs, is important. From the customer perspective, a modern energy system is required to have more intelligent appliances and smart customer services. In addition, customers require the provision of more useful information and control options.

Another challenge for the energy systems of the future is the increased penetration of renewable energy sources. Hence, new operation and planning tools are required for hosting renewable energy sources as much as possible.

This book focuses on solar energy and its applications in Iraq and its neighboring countries. Iraq suffers from electricity shortages and faces many challenges to meet and overcome current and future increases in electrical demand. Although Iraq relies primarily on petroleum as an energy source, many scientists agree that the future of energy efficiency and safety will rely heavily on the implementation of green and renewable energies. This book is aimed at researchers, policymakers, and students and discusses how PV systems can be successfully implemented in order to reduce dependency on fossil fuel resources. Contains case studies and examples to enhance practical application of the technologies presented; Presents actual adopted Iraqi PV projects; Explains the use and application of photovoltaic cells.

The Book presents an

overview of newly developed watermarking techniques in various independent and hybrid domains Covers the basics of digital watermarking, its types, domain in which it is implemented and the application of machine learning algorithms onto digital watermarking Reviews hardware implementation of watermarking Discusses optimization problems and solutions in watermarking with a special focus on bio-inspired algorithms Includes a case study along with its MATLAB code and simulation results

This book discusses various challenges and solutions in the fields of operation, control, design, monitoring and protection of microgrids, and facilitates the integration of renewable energy and distribution systems through localization of generation, storage and consumption. It covers five major topics relating to microgrid i.e., operation, control, design, monitoring and protection. The book is primarily intended for electric power and control engineering researchers who are seeking factual information, but also appeals to professionals from other engineering disciplines wanting an overview of the entire field or specific infor-

mation on one aspect of it. Featuring practical case studies and demonstrating different root causes of large power failures, it helps readers develop new concepts for mitigating blackout issues. This book is a comprehensive reference resource for graduate and postgraduate students, academic researchers, and practicing engineers working in the fields of power system and microgrid.

Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK Now in a new edition—the most comprehensive, hands-on introduction to digital signal processing The first edition of Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK is widely accepted as the most extensive text available on the hands-on teaching of Digital Signal Processing (DSP). Now, it has been fully updated in this valuable Second Edition to be compatible with the latest version (3.1) of Texas Instruments Code Composer Studio (CCS) development environment. Maintaining the original's comprehensive, hands-on approach that has made it an instructor's favorite, this new edition also fea-

tures: Added program examples that illustrate DSP concepts in real-time and in the laboratory Expanded coverage of analog input and output New material on frame-based processing A revised chapter on IIR, which includes a number of floating-point example programs that explore IIR filters more comprehensively More extensive coverage of DSP/BIOS All programs listed in the text—plus additional applications—which are available on a companion website No other book provides such an extensive or comprehensive set of program examples to aid instructors in teaching DSP in a laboratory using audio frequency signals—making this an ideal text for DSP courses at the senior undergraduate and postgraduate levels. It also serves as a valuable resource for researchers, DSP developers, business managers, and technology solution providers who are looking for an overview and examples of DSP algorithms implemented using the TMS320C6713 and TMS320C6416 DSK.

Facial recognition software has improved by leaps and bounds over the past few decades, with error rates decreasing significantly within the past

ten years. Though this is true, conditions such as poor lighting, obstructions, and profile-only angles have continued to persist in preventing wholly accurate readings. Face Recognition in Adverse Conditions examines how the field of facial recognition takes these adverse conditions into account when designing more effective applications by discussing facial recognition under real world PIE variations, current applications, and the future of the field of facial recognition research. The work is intended for academics, engineers, and researchers specializing in the field of facial recognition.

Glioblastoma Resistance to Chemotherapy: Molecular Mechanisms and Innovative Reversal Strategies brings current knowledge from an international team of experts on the science and clinical management of glioblastoma chemoresistance. The book discusses topics such as molecular mechanisms of chemoresistance, experimental models to study chemoresistance, chemoresistance to drugs other than Temozolomide, and specific strategies to reverse chemoresistance. Additionally, it encompasses information on how to

mitigate chemoresistance by targeted enhancement of p53 function. This book is a valuable resource for cancer researchers, oncologists, neuro-oncologists and other members of the biomedical field. Glioblastoma (GBM) is the most invasive and malignant primary brain tumor in humans with poor survival after diagnosis, therefore it is imperative that molecular and cellular mechanisms behind therapy resistant GBM cells, as well as the therapeutic strategies available to counter the resistance are comprehensively understood. Provides comprehensive, core knowledge related to the entire discipline of glioblastoma chemoresistance, from its many etiological mechanisms, to specific strategies to reverse resistance Presents current information from an international team of experts on the basic science, pre-clinical research, and clinical management of glioblastoma chemoresistance Discusses molecular and cellular mechanisms behind therapy resistant glioblastoma cells, as well as the therapeutic strategies available to counter this resistance Handbook of Generation IV Nuclear Reactors presents information on the current fleet of Nuclear

Power Plants (NPPs) with water-cooled reactors (Generation III and III+) (96% of 430 power reactors in the world) that have relatively low thermal efficiencies (within the range of 32-36%) compared to those of modern advanced thermal power plants (combined cycle gas-fired power plants - up to 62% and supercritical pressure coal-fired power plants - up to 55%). Moreover, thermal efficiency of the current fleet of NPPs with water-cooled reactors cannot be increased significantly without completely different innovative designs, which are Generation IV reactors. Nuclear power is vital for generating electrical energy without carbon emissions. Complete with the latest research, development, and design, and written by an international team of experts, this handbook is completely dedicated to Generation IV reactors. Presents the first comprehensive handbook dedicated entirely to generation IV nuclear reactors Reviews the latest trends and developments Complete with the latest research, development, and design information in generation IV nuclear reactors Written by an international team of experts in the field

A comprehensive resource on Verilog HDL for beginners and experts Large and complicated digital circuits can be incorporated into hardware by using Verilog, a hardware description language (HDL). A designer aspiring to master this versatile language must first become familiar with its constructs, practice their use in real applications, and apply them in combinations in order to be successful. Design Through Verilog HDL affords novices the opportunity to perform all of these tasks, while also offering seasoned professionals a comprehensive resource on this dynamic tool. Describing a design using Verilog is only half the story: writing test-benches, testing a design for all its desired functions, and how identifying and removing the faults remain significant challenges. Design Through Verilog HDL addresses each of these issues concisely and effectively. The authors discuss constructs through illustrative examples that are tested with popular simulation packages, ensuring the subject matter remains practically relevant. Other important topics covered include: Primitives Gate and Net delays Buffers CMOS switches

State machine design. Further, the authors focus on illuminating the differences between gate level, data flow, and behavioral styles of Verilog, a critical distinction for designers. The book's final chapters deal with advanced topics such as timescales, parameters and related constructs, queues, and switch level design. Each chapter concludes with exercises that both ensure readers have mastered the present material and stimulate readers to explore avenues of their own choosing. Written and assembled in a paced, logical manner, *Design Through Verilog HDL* provides professionals, graduate students, and advanced undergraduates with a one-of-a-kind resource.

Regulated turnover of extracellular matrix (ECM) is an important component of tissue homeostasis. In recent years, the enzymes that participate in, and control ECM turnover have been the focus of research that touches on development, tissue remodeling, inflammation and disease. This volume in the *Biology of Extracellular Matrix* series provides a review of the known classes of proteases that degrade ECM both outside and inside the cell. The

specific ECM proteases that are discussed include cathepsins, bacterial collagenases, matrix metalloproteinases, meprins, serine proteases, and elastases. The volume also discusses the domains responsible for specific biochemical characteristics of the proteases and the physical interactions that occur when the protease interacts with substrate. The topics covered in this volume provide an important context for understanding the role that matrix-degrading proteases play in normal tissue remodeling and in diseases such as cancer and lung disease.

This book features selected research papers presented at the First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019), organized by Northwest Group of Institutions, Punjab, India, Southern Federal University, Russia, and IAC Educational Trust, India along with KEC, Ghaziabad and ITS, College Ghaziabad as an academic partner and held on 12–13 October 2019. It includes innovative work from researchers, leading innovators and professionals in the area of communication and network technologies, advanced com-

puting technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

Zero Waste Fashion Design combines research and practice to introduce a crucial sustainable fashion design approach. Written by two industry leading pioneers, Timo Rissanen and Holly McQuillan, the book offers flexible strategies and easy-to-master zero waste techniques to help you develop your own cutting edge fashion designs. Sample flat patterns and more than 20 exercises will reinforce your understanding of the zero waste fashion design process. Beautifully illustrated interviews with high-profile, innovative designers, including Winifred Aldrich, Rickard Lindqvist and Yeohlee Teng, show the stunning garments produced by zero waste fashion design. Featured topics include: The criteria for zero waste fashion design Manufacturing zero waste garments Adapting existing designs for zero waste Zero waste designing with digital technologies

It is now well accepted that the consumption of plant-based foods is beneficial to human health. Fruits, vegetables,

grains, and derived products can be excellent sources of minerals, vitamins, and fiber and usually have a favorable nutrient-to-energy ratio. Furthermore, plant foods are also a rich source of phytochemicals such as polyphenols, carotenoids, and betalains, with potential health benefits for humans. Many epidemiological studies have made a direct link between the consumption of plant foods and health. Human intervention studies have also shown that higher intake/consumption of plant foods can reduce the incidence of metabolic syndrome and other chronic diseases, especially in at-risk populations such as obese people. In addition to its health benefits, plant foods are also used as functional ingredients in food applications such as antioxidants, antimicrobials, and natural colorants. The Special Issue "Foods of Plant Origin" covers biodiscovery, functionality, the effect of different cooking/preparation methods on bioactive (plant food) ingredients, and strategies to improve the nutritional quality of plant foods by adding other food components using novel/alternative food sources or applying non-conventional preparation

techniques.

This two-volume set LNCS 6691 and 6692 constitutes the refereed proceedings of the 11th International Work-Conference on Artificial Neural Networks, IWANN 2011, held in Torremolinos-Málaga, Spain, in June 2011. The 154 revised papers were carefully reviewed and selected from 202 submissions for presentation in two volumes. The first volume includes 69 papers organized in topical sections on mathematical and theoretical methods in computational intelligence; learning and adaptation; bio-inspired systems and neuro-engineering; hybrid intelligent systems; applications of computational intelligence; new applications of brain-computer interfaces; optimization algorithms in graphic processing units; computing languages with bio-inspired devices and multi-agent systems; computational intelligence in multimedia processing; and biologically plausible spiking neural processing.

Revealing essential roles of the tumor microenvironment in cancer progression, this book provides a comprehensive overview of the latest research on the tumor microenvironment in over thirty human

organs, including the parathyroid gland, heart, intestine, testicles, and more. Taken alongside its companion volumes, these books update us on what we know about the different aspects of the tumor microenvironments in distinct organs as well as future directions. Tumor Microenvironments in Organs: From the Brain to the Skin - Part A is essential reading for advanced cell biology and cancer biology students as well as researchers seeking an update on research in the tumor microenvironment.

Nanoparticles have numerous biomedical applications including drug delivery, bone implants and imaging. A protein corona is formed when proteins existing in a biological system cover the nanoparticle surface. The formation of a nanoparticle-protein corona, changes the behaviour of the nanoparticle, resulting in new biological characteristics and influencing the circulation lifetime, accumulation, toxicity, cellular uptake and agglomeration. This book provides a detailed understanding of nanoparticle-protein corona formation, its biological significance and the factors that govern the formation of coronas. It also explains the impact of nanoparti-

cle-protein interactions on biological assays, ecotoxicity studies and proteomics research. It will be of interest to researchers studying the application of nanoparticles as well as toxicologists and pharmaceutical chemists.

This book features original papers from the 3rd International Conference on Smart IoT Systems: Innovations and Computing (S-SIC 2021), presenting scientific work related to smart solution concepts. It discusses scientific works related to smart solutions concept in the context of computational collective intelligence consisted of interaction between smart devices for smart environments and interactions. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies.

Nanotechnology is expected to bring revolutionary changes in a variety of fields. This volume describes nanoparticles and their biomedical applications, and covers metal nanoparticles, metal oxide nanoparticles, rare earth based nanoparticles and graphene oxide nanoparticles. It elaborates on a number of biomedical applications, including therapeutic applications. It ad-

resses the topic of green synthesis, in view of increasing health and environmental concerns.

The largest high-level encyclopedia on molecular medicine is now publishing a topical volume on Nanomedicine. The long awaited volume gives a comprehensive overview on nanomaterials in drug delivery, imaging and as therapeutics.

The book presents new approaches and methods for solving real-world problems. It offers, in particular, exploratory research that describes novel approaches in the fields of Cognitive Informatics, Cognitive Computing, Computational Intelligence, Advanced Computing, Hybrid Intelligent Models and Applications. New algorithms and methods in a variety of fields are also presented, together with solution-based approaches. The topics addressed include various theoretical aspects and applications of Computer Science, Artificial Intelligence, Cybernetics, Automation Control Theory and Software Engineering. For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. Digital Design, fifth edition is a

modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

This book proposes systemic design methodologies applied to electrical energy systems, in particular analysis and system management, modeling and sizing tools. It includes 8 chapters: after an introduction to the systemic approach (history, basics & fundamental issues, index terms) for designing energy systems, this book presents two different graphical formalisms especially dedicated to multidisciplinary devices modeling, synthesis and analysis: Bond Graph and COG/EMR. Other systemic analysis approaches for quality and stability of systems, as well as for safety and robustness analysis tools are also proposed. One chapter is dedicated to energy management and another is focused on Monte Carlo algorithms for electrical systems and networks sizing. The aim of this book is to summarize design methodolo-

gies based in particular on a systemic viewpoint, by considering the system as a whole. These methods and tools are proposed by the most important French research laboratories, which have many scientific partnerships with other European and international research institutions. Scientists and engineers in the field of electrical engineering, especially teachers/researchers because of the focus on methodological issues, will find this book extremely useful, as will PhD and Masters students in this field.

This two-volume set (LNAI 10448 and LNAI 10449) constitutes the refereed proceedings of the 9th International Conference on Collective Intelligence, ICCI 2017, held in Nicosia, Cyprus, in September 2017. The 117 full papers presented were carefully reviewed and selected from 248 submissions. The conference focuses on the methodology and applications of computational collective intelligence, included: multi-agent systems, knowledge engineering and semantic web, social networks and recommender systems, text processing and information retrieval, data mining methods and applications,

sensor networks and internet of things, decision support & control systems, and computer vision techniques.

Laser Additive Manufacturing: Materials, Design, Technologies, and Applications provides the latest information on this highly efficient method of layer-based manufacturing using metals, plastics, or composite materials. The technology is particularly suitable for the production of complex components with high precision for a range of industries, including aerospace, automotive, and medical engineering. This book provides a comprehensive review of the technology and its range of applications. Part One looks at materials suitable for laser AM processes, with Part Two discussing design strategies for AM. Parts Three and Four review the most widely-used AM technique, powder bed fusion (PBF) and discuss other AM techniques, such as directed energy deposition, sheet lamination, jetting techniques, extrusion techniques, and vat photopolymerization. The final section explores the range of applications of laser AM. Provides a comprehensive one-volume overview of advances in laser additive manufacturing Presents

detailed coverage of the latest techniques used for laser additive manufacturing Reviews both established and emerging areas of application

Biofuels and Bioenergy: Opportunities and Challenges is the first of two volumes that address the technological developments and challenges in the production of a broad range of biofuels and bioenergy products from renewable feedstock. The book emphasizes the opportunities and challenges involved in various processes including fermentation, transesterification, microbial fuels cells, liquefaction, gasification, and pyrolysis. These are also considered from a biorefinery perspective and discuss all common biomass feedstocks. In addition, the book presents new research on microalgae from waste water treatment, large scale production of microalgae, microbial biooil production, biogas production, computational tools for manipulation of metabolic pathway for enhanced biogas production, production of biofuel from genetically modified microalgal biomass, techno-economic analysis, environmental impact and life cycle analysis. Biofuels and Bioenergy is an ideal reference on the lat-

est research for researchers and students working in the area of biofuels and renewable energy. Addresses biological and chemical methods of biofuel and bioenergy production Provides industry case studies alongside in-depth techno-economic analysis, environmental impact, and life cycle assessment of biofuels production Focuses on the commercial viability of production processes

Face recognition has been actively studied over the past decade and continues to be a big research challenge. Just recently, researchers have begun to investigate face recognition under unconstrained conditions. Unconstrained Face Recognition provides a comprehensive review of this biometric, especially face recognition from video, assembling a collection of novel approaches that are able to recognize human faces under various unconstrained situations. The underlying basis of these approaches is that, unlike conventional face recognition algorithms, they exploit the inherent characteristics of the unconstrained situation and thus improve the recognition performance when compared with conventional algorithms. Unconstrained

Face Recognition is structured to meet the needs of a professional audience of researchers and practitioners in industry. This volume is also suitable for advanced-level students in computer science.

The goal of SmartTechCon 2017 is to provide an outstanding forum for researchers, practitioners, policy makers, and users to exchange ideas, techniques and tools, raise awareness, and share experience related to all practical and theoretical aspects of Smart Technologies SmartTechCon 2017 will feature a comprehensive technical program including several special sessions symposiums and a number of short courses This book features selected research papers presented at the Second International Conference on Computing, Communications, and Cyber-Security (IC4S 2020), organized in Krishna Engineering College (KEC), Ghaziabad, India, along with Academic Associates; Southern Federal University, Russia; IAC Educational, India; and ITS Mohan Nagar, Ghaziabad, India during 3-4 October 2020. It includes innovative work from researchers, leading innovators, and professionals in the area of commu-

nication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

Elegant, novel explanation of climate change, emphasizing physical understanding and concepts, while avoiding complex mathematics, supported by excellent color illustrations.

This important text/reference presents the latest secure and privacy-compliant techniques in automatic human recognition. Featuring viewpoints from an international selection of experts in the field, the comprehensive coverage spans both theory and practical implementations, taking into consideration all ethical and legal issues. Topics and features: presents a unique focus on novel approaches and new architectures for unimodal and multimodal template protection; examines signal processing techniques in the encrypted domain, security and privacy leakage assessment, and aspects of standardization; describes real-world applications, from face and fingerprint-based user recognition, to biometrics-based electronic documents, and bio-

metric systems employing smart cards; reviews the ethical implications of the ubiquity of biometrics in everyday life, and its impact on human dignity; provides guidance on best practices for the processing of biometric data within a legal framework.

Toughening environmental legislation, national and supra-national environmental product policies and growing customer demands are focusing the attention of companies on the environmental and broader social issues linked to the creation and delivery of their products and services. There is now an urgent need for appropriate management structures, practical tools and increased awareness

among all stakeholders in the product development process and throughout the entire product life-cycle. These are huge issues – with major implications for corporate management, design and production strategies. Sustainable Solutions provides state-of-the-art analysis and case studies on why and how cutting-edge companies are developing new products and services to fit "triple-bottom-line" expectations. The book is split into three sections: first, the broad issues of business sustainability are examined with focus on sustainable production and consumption and consideration of North-South issues. Second, the book tackles the major methodologies and

approaches toward organising and developing more sustainable products and services. Third, an outstanding collection of global case studies highlights the progress made by a wide range of companies toward dematerialisation, eco-innovation and design for durability. Finally, the book collects together a comprehensive list of web addresses of useful organisations. Practical and comprehensive, Sustainable Solutions will be essential reading for corporate managers, product designers, R&D staff, academics and all individuals interested in a definitive source on how new product and service development can and is contributing toward tackling the challenge of sustainable development.