

Embedded System Design K Ezhilarasan

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Information, Communication and Computing Technology

Extracellular Matrix Degradation

Translational Nanomedicine

Digital Image Watermarking

Microgrid: Operation, Control, Monitoring and Protection

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Power Electronics and Renewable Energy Systems

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Tumor Microenvironments in Organs

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High-Power Converters and AC Drives

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OMB No. 1096152065982 edited by

RIVERS ALANNAH

Information, Communication and Computing Technology IGI Global

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.

EXTRACELLULAR MATRIX DEGRADATION

IGI Global

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.

Translational Nanomedicine John Wiley & Sons

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

Digital Image Watermarking Springer Nature

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 EMC 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.

MICROGRID: OPERATION, CONTROL, MONITORING AND PROTECTION

Academic Press

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

NanoparticleProtein Corona Elsevier

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 features: 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.

FACE RECOGNITION IN ADVERSE CONDITIONS

Springer Nature

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.

Cognitive Informatics and Soft Computing Springer Nature

The 47 full papers and 24 short papers included in this book were

carefully reviewed and selected from 245 submissions. These articles cater to the most contemporary and happening topics in the fields of AI that range from Intelligent Recommendation Systems, Game Theory, Computer Vision, Reinforcement Learning, Social Networks, and Generative AI to Conversational and Large Language Models. They are organized into four areas of research: Theoretical contributions, Cognitive Computing models, Computational Intelligence based algorithms, and AI Applications. **Power Electronics and Renewable Energy Systems** John Wiley & Sons

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 information 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.

Power Electronics and Renewable Energy Systems

This book features original papers from the 3rd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 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.

International Journal of Biomedical and Clinical Engineering (IJBCE). Springer

This book proposes new algorithms to ensure secured communications and prevent unauthorized data exchange in

secured multimedia systems. Focusing on numerous applications' algorithms and scenarios, it offers an in-depth analysis of data hiding technologies including watermarking, cryptography, encryption, copy control, and authentication. The authors present a framework for visual data hiding technologies that resolves emerging problems of modern multimedia applications in several contexts including the medical, healthcare, education, and wireless communication networking domains. Further, it introduces several intelligent security techniques with real-time implementation. As part of its comprehensive coverage, the book discusses contemporary multimedia authentication and fingerprinting techniques, while also proposing personal authentication/recognition systems based on hand images, surveillance system security using gait recognition, face recognition under restricted constraints such as dry/wet face conditions, and three-dimensional face identification using the approach developed here. This book equips perception technology professionals with the latest technologies, techniques, and strategies for multimedia security systems, offering a valuable resource for engineers and researchers working to develop security systems.

Endodontic-Periodontal Lesions CRC Press

This book is a tutorial on digital techniques for waveform generation, digital filters, and digital signal processing tools and techniques. The typical chapter begins with some theoretical material followed by working examples and experiments using the TMS320C6713-based DSP Starter Kit (DSK). The C6713 DSK is TI's newest signal processor based on the C6x processor (replacing the C6711 DSK).

Expert Clouds and Applications Springer Science & Business Media

Multilevel Inverters: Conventional and Emerging Topologies and Their Control is written with two primary objectives: (a) explanation of fundamentals of multilevel inverters (MLIs) with reference to the general philosophy of power electronics; and (b) enabling the reader to systematically analyze a given topology with the possibility of contributing towards the ongoing evolution of topologies. The authors also present an updated status of current research in the field of MLIs with an emphasis on the evolution of newer topologies. In addition, the work includes a universal control scheme, with which any given topology can be

modulated. Extensive qualitative and quantitative evaluations of emerging topologies give researchers and industry professionals suitable solutions for specific applications with a systematic presentation of software-based modeling and simulation, and an exploration of key issues. Topics covered also include power distribution among sources, voltage balancing, optimization switching frequency and asymmetric source configuration. This valuable reference further provides tools to model and simulate conventional and emerging topologies using MATLAB®/Simulink® and discusses execution of experimental set-up using popular interfacing tools. The book includes a Foreword by Dr. Frede Blaabjerg, Fellow IEEE, Professor and VILLUM Investigator, Aalborg University, Denmark. Includes a universal control scheme to help the reader learn the control of existing topologies and those which can be proposed in the future. Presents three new topologies. Systematic development of these topologies and subsequent simulation and experimental studies exemplify an approach to the development of newer topologies and verification of their working and experimental verification. Contains a systematic and step-by-step approach to modelling and simulating various topologies designed to effectively employ low-power applications.

Multilevel Inverters Springer

This book constitutes the refereed proceedings of the 5th International Conference on Information, Communication and Computing Technology, ICICCT 2020, held in New Delhi, India*, in May 2020. The 24 full papers and one short paper presented in this volume were carefully reviewed and selected from 220 submissions. The papers are organized in topical sections on data communication & networking; advanced computing using machine learning. *The conference was held virtually due to the COVID-19 pandemic.

Nanoparticles and their Biomedical Applications MDPI

ADHESIVES IN BIOMEDICAL APPLICATIONS Uniquely provides up-to-date and comprehensive information on adhesives in biomedical applications in an easily accessible form. Adhesives are gaining popularity in many and varied biomedical applications as they are being used as a replacement for sutures and staples, which have the disadvantages such as scarring, infection, keloid formation, poor skin healing, or hernia in the case of abdominal sutures. On the other hand, adhesives dramatically reduce

healthcare costs, significantly reduce time spent in surgery, curb the risks of bleeding, and are generally easy to use. Adhesives also find their use in diagnostic imaging, various biomedical devices, dental adhesives, dermal adhesives, etc. Adhesives in *Biomedical Applications* contains eleven chapters and is divided into two parts: Part 1: General Topics; and Part 2: Specific Adhesives, Characteristics, and Applications. Topics covered include: historical developments of various adhesives for biomedical applications; global industry development and analysis of adhesives for biomedical applications; biomedical adhesives; bioadhesion: fundamentals and mechanisms; fibrin glue; herbal bioactives-based mucoadhesive drug delivery systems; adhesive hydrogels; adhesives in dermal patches; medical adhesives from extracted mussel adhesive proteins; dental adhesives; and the role of adhesive-based systems for diagnostic imaging and theranostic applications. Audience The book will be used by adhesionists, adhesive technologists, polymer scientists, materials scientists, as well as those involved with biomedical devices and bioimplants such as medical doctors, surgeons, cosmetologists, as well as engineers in the pharmaceutical industry.

Foods of Plant Origin PHI Learning Pvt. Ltd.

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 nanoparticle-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.

TUMOR MICROENVIRONMENTS IN ORGANS

John Wiley & Sons

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.

Nanoscale Processing Springer

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.

HIGH-POWER CONVERTERS AND AC DRIVES

Walter de Gruyter GmbH & Co KG

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

Advances in Computational Intelligence Jai Press

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

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