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JAYCE VANESSA

Advances in Multimedia, Software Engineering and Computing Vol.1 Springer

A complete guide to the state of the art theoretical and manufacturing developments of body sensor network, design, and algorithms In Body Sensor Networking, Design, and Algorithms, professionals in the field of Biomedical Engineering and e-health get an in-depth look at advancements, changes, and developments. When it comes to advances in the industry, the text looks at cooperative networks, noninvasive and implantable sensor microelectronics, wireless sensor networks, platforms, and optimization—to name a few. Each chapter provides essential information needed to understand the current landscape of technology and mechanical developments. It covers subjects including Physiological Sensors, Sleep Stage Classification, Contactless Monitoring, and much more. Among the many topics covered, the text also includes additions such as: ● Over 120 figures, charts, and tables to assist with the understanding of complex topics ● Design examples and detailed experimental works ● A companion website featuring MATLAB and selected data sets Additionally, readers will learn about wearable and implantable devices, invasive and noninvasive monitoring, biocompatibility, and the tools and platforms for long-term, low-power deployment of wireless communications. It's an essential resource for understanding the applications and practical implementation of BSN when it comes to elderly care, how to manage patients with chronic illnesses and diseases, and use cases for rehabilitation.

Ultra-Wideband, Short-Pulse Electromagnetics 10
ScholarlyEditions

Gaseous Dielectrics IX covers recent advances and developments in a wide range of basic, applied, and industrial areas of gaseous dielectrics.

Handbook of Electric Motors CUP Archive

This book presents contributions of deep technical content and high scientific quality in the areas of electromagnetic theory, scattering, UWB antennas, UWB systems, ground penetrating radar (GPR), UWB communications, pulsed-power generation, time-domain computational electromagnetics, UWB compatibility, target detection and discrimination, propagation through dispersive media, and wavelet and multi-resolution techniques. Ultra-wideband (UWB), short-pulse (SP) electromagnetics are now being used for an increasingly wide variety of applications, including collision avoidance radar, concealed object detection, and communications. Notable progress in UWB and SP technologies has been achieved by investigations of their theoretical bases and improvements in solid-state manufacturing, computers, and digitizers. UWB radar systems are also being used for mine clearing, oil pipeline inspections, archeology, geology, and electronic effects testing. Like previous books in this series, *Ultra-Wideband Short-Pulse Electromagnetics 10* serves as an essential reference for scientists and engineers working in these applications areas.

Wireless Communication and Network - Proceedings of 2015 International Workshop (iwwcn2015) Springer

The last decade has seen dramatic advances in artificial intelligence and robotics technology, raising tough questions that need to be addressed. *The Robot Will See You Now* considers how Christians can respond to these issues - and flourish - in the years ahead. Contributions from a number of international experts, including editors John Wyatt and Stephen Williams, explore a

range of social and ethical issues raised by recent advances in AI and robotics. Considering the role of artificial intelligence in areas such as medicine, employment and security, the book looks at how AI is perceived as well as its actual impact on human interactions and relationships. Alongside are theological responses from an orthodox Christian perspective. Looking at how artificial intelligence and robotics may be considered in the light of Christian doctrine, *The Robot Will See You Now* offers a measured, thoughtful view on how Christians can understand and prepare for the challenges posted by the development of AI. This is a book for anyone who is interested in learning more about how AI and robots have advanced in recent years, and anyone who has wondered how Christian teaching relates to artificial intelligence. Whatever your level of technical knowledge, *The Robot Will See You Now* will give you a thorough understanding of AI and equip you to respond to the challenges it poses with confidence and faith.

Issues in Telecommunications Research: 2011 Edition
ScholarlyEditions

Issues in Information Science Research / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Web and Grid Services. The editors have built *Issues in Information Science Research: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Web and Grid Services in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in Information Science Research: 2013 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written,

assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Energy Abstracts for Policy Analysis Electrical Insulation Breakdown and Its Theory, Process, and Prevention: Emerging Research and Opportunities Emerging Research and Opportunities Issues in Electronics Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Electronics Research and Application. The editors have built Issues in Electronics Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Electronics Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Electronics Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Recent Developments in Intelligent Computing, Communication and Devices ScholarlyEditions

Learn about Ultra-wideband (UWB) transmission - the most talked about application in wireless communications. UWB wireless communication is a revolutionary technology for transmitting large amounts of digital data over a wide spectrum of frequency bands with very low power for a short distance. This exciting new text covers the fundamental aspects of UWB wireless communications systems for short-range communications. It also focuses on more advanced information about networks and applications. Chapters include: Radio Propagation and Large Scale Variations, Pulse Propagation and Channel Modelling, MIMO (Multiple Input, Multiple Output) RF Subsystems and Ad Hoc Networks. Focuses on UWB wireless communications rather than UWB radar, which has been covered before. Provides long and short-term academic and technological value. Teaches readers the fundamentals, challenges and up-to-date technical processes

in this field.

Issues in Biomedical Engineering Research and Application: 2011 Edition Springer Science & Business Media

For more than three decades, Anders Lindquist has delivered fundamental contributions to the fields of systems, signals and control. Throughout this period, four themes can perhaps characterize his interests: Modeling, estimation and filtering, feedback and robust control. His contributions to modeling include seminal work on the role of splitting subspaces in stochastic realization theory, on the partial realization problem for both deterministic and stochastic systems, on the solution of the rational covariance extension problem and on system identification. His contributions to filtering and estimation include the development of fast filtering algorithms, leading to a nonlinear dynamical system which computes spectral factors in its steady state, and which provide an alternate, linear in the dimension of the state space, to computing the Kalman gain from a matrix Riccati equation. His further research on the phase portrait of this dynamical system gave a better understanding of when the Kalman filter will converge, answering an open question raised by Kalman. While still a student he established the separation principle for stochastic function differential equations, including some fundamental work on optimal control for stochastic systems with time lags. He continued his interest in feedback control by deriving optimal and robust control feedback laws for suppressing the effects of harmonic disturbances. Moreover, his recent work on a complete parameterization of all rational solutions to the Nevanlinna-Pick problem is providing a new approach to robust control design.

Digital Communications with Emphasis on Data Modems John Wiley & Sons

Considered one of the most innovative research directions, computational intelligence (CI) embraces techniques that use global search optimization, machine learning, approximate reasoning, and connectionist systems to develop efficient, robust, and easy-to-use solutions amidst multiple decision variables, complex constraints, and tumultuous environments. CI techniques involve a combination of learning, adaptation, and evolution used for intelligent applications. Computational Intelligence Paradigms for Optimization Problems Using MATLAB®/ Simulink® explores the performance of CI in terms of knowledge representation,

adaptability, optimality, and processing speed for different real-world optimization problems. Focusing on the practical implementation of CI techniques, this book: Discusses the role of CI paradigms in engineering applications such as unit commitment and economic load dispatch, harmonic reduction, load frequency control and automatic voltage regulation, job shop scheduling, multidepot vehicle routing, and digital image watermarking Explains the impact of CI on power systems, control systems, industrial automation, and image processing through the above-mentioned applications Shows how to apply CI algorithms to constraint-based optimization problems using MATLAB® m-files and Simulink® models Includes experimental analyses and results of test systems Computational Intelligence Paradigms for Optimization Problems Using MATLAB®/ Simulink® provides a valuable reference for industry professionals and advanced undergraduate, postgraduate, and research students. Issues in Electronics Research and Application: 2011 Edition ScholarlyEditions

*A practical guide to the control of reactive power systems *Ideal for postgraduate and professional courses *Covers the latest equipment and computer-aided analysis A definitive new guide to the control of active and reactive power, featuring the latest developments including FACTS Power Electronic Control in Electrical Systems offers a solid theoretical foundation for the electronic control of active and reactive power, providing an overview of the composition of electrical power networks; a basic description of the most popular power systems studies; and coverage of the roles of Flexible Alternating Current Transmission Systems (FACTS) and Custom Power equipment. Developments in power electronics have opened up new ways in which power control may be achieved not only in high-voltage transmission systems but also in low-voltage distribution systems, and the coverage of these developments makes this new book on active and reactive power control in electrical power systems essential reading for advanced students, engineers and academics alike. Within this book the fundamental concepts associated with the topic of power electronic control are covered alongside the latest equipment and devices, new application areas and associated computer-assisted methods.

IGI Global

Issues in Nuclear and Plasma Science and Technology: 2013

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Ultra-Wideband Wireless Communications and Networks SPCK Issues in Nuclear and Plasma Science and Technology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Nuclear and Plasma Science and Technology. The editors have built Issues in Nuclear and Plasma Science and Technology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Nuclear and Plasma Science and Technology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Nuclear and Plasma Science and Technology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Theory, Analysis, Design, Simulation, Testing, and Applications CRC Press

In electrical engineering manufacturing, one of the most important processes stems from making sure the material used to distribute the electrical current is safe and operating correctly. The precarious nature of electricity makes developing innovative

material for advanced safety a high-ranking priority for researchers. Electrical Insulation Breakdown and Its Theory, Process, and Prevention: Emerging Research and Opportunities provides innovative insights into the latest developments and achievements in high voltage insulation breakdown. Featuring topics such as nanodielectrics, thermal stability, and transmission technology, it is designed for engineers, including those that work with high voltage power systems, researchers, practitioners, professionals, and students interested in the upkeep and practice of electric material safety.

Neural Information Processing Springer

Integrated circuits have revolutionised design electronics. This new paperback edition of Professor Arbel's text for electronic systems designers treats integrated circuits as black boxes whose properties are specified by the manufacturer and shows how to design circuits that make the best use of them. This approach enables the designer to concentrate on the best way of using the circuit modules. A most valuable feature of the book is the presence of many practical problems together with their solutions. There is also a bibliography.

Pulse and Digital Circuits John Wiley & Sons

This book covers the history and recent developments of stochastic computing. Stochastic computing (SC) was first introduced in the 1960s for logic circuit design, but its origin can be traced back to von Neumann's work on probabilistic logic. In SC, real numbers are encoded by random binary bit streams, and information is carried on the statistics of the binary streams. SC offers advantages such as hardware simplicity and fault tolerance. Its promise in data processing has been shown in applications including neural computation, decoding of error-correcting codes, image processing, spectral transforms and reliability analysis. There are three main parts to this book. The first part, comprising Chapters 1 and 2, provides a history of the technical developments in stochastic computing and a tutorial overview of the field for both novice and seasoned stochastic computing researchers. In the second part, comprising Chapters 3 to 8, we review both well-established and emerging design approaches for stochastic computing systems, with a focus on accuracy, correlation, sequence generation, and synthesis. The last part, comprising Chapters 9 and 10, provides insights into applications in machine learning and error-control coding.

Seamless Healthcare Monitoring John Wiley & Sons

This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics (EEIC 2011), held on June 20-22, 2011, which is jointly organized by Nanchang University, Springer, and IEEE IAS Nanchang Chapter. The objective of EEIC 2011 Volume 4 is to provide a major interdisciplinary forum for the presentation of new approaches from Communication Systems and Information Technology, to foster integration of the latest developments in scientific research. 137 related topic papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Ming Ma. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Communication Systems and Information Technology.

Power Electronics in Renewable Energy Systems and Smart Grid Springer Science & Business Media

Issues in Telecommunications Research / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Telecommunications Research. The editors have built Issues in Telecommunications Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Telecommunications Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Telecommunications Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Power Electronic Control in Electrical Systems Springer

This book shares the knowledge of active and prestigious worldwide researchers and scholars in the field of healthcare monitoring as authors investigate historical developments, summarize latest advancements, and envision future prospects on wearable, attachable, and invisible devices that monitor

diverse physiological information. The coverage of the book spans multiple disciplines, from biomechanics, to bioelectricity, biochemistry, biophysics and biomaterials. There is also wide coverage of various physical and chemical quantities such as electricity, pressure, flow, motion, force, temperature, gases, and biomarkers. Each chapter explores the background of a specific monitoring device, as well as its physical and chemical principles and instrumentation, signal processing and data analysis, achieved outcomes and application scenarios, and future research topics. There are chapters on: Electrocardiograms, electroencephalograms, and electromyograms Measurement of flow phenomenon Latest wearable technologies for the quantification of human motion Various forms of wearable thermometers Monitoring of gases and chemical substances produced during metabolism...and more! This book is appropriate and accessible for students and scientists, as well as researchers in biomedical engineering, computer engineers, healthcare entrepreneurs, administrative officers, policy makers, market vendors, and healthcare personnel. It helps to provide us with insights into future endeavors, formulate innovative businesses and services, and will help improve people's health and quality of life.

Proceedings of ICCD 2017 Springer Science & Business Media Issues in Aerospace and Defense Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely,

authoritative, and comprehensive information about Aerospace and Defense Research and Application. The editors have built Issues in Aerospace and Defense Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Aerospace and Defense Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Aerospace and Defense Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Technical Information Indexes Springer Science & Business Media This book offers a collection of high-quality, peer-reviewed research papers presented at the International Conference on Intelligent Computing, Communication and Devices (ICCD 2017), discussing all dimensions of intelligent sciences - intelligent computing, intelligent communication, and intelligent devices. Intelligent computing addresses areas such as intelligent and distributed computing, intelligent grid and cloud computing,

internet of things, soft computing and engineering applications, data mining and knowledge discovery, semantic and web technology, hybrid systems, agent computing, bioinformatics, and recommendation systems. Intelligent communication is concerned with communication and network technologies, such as mobile broadband and all optical networks that are the key to groundbreaking inventions of intelligent communication technologies. It includes communication hardware, software and networked intelligence, mobile technologies, machine-to-machine communication networks, speech and natural language processing, routing techniques and network analytics, wireless ad hoc and sensor networks, communications and information security, signal, image and video processing, network management, and traffic engineering. Lastly, intelligent devices are any equipment, instruments, or machines that have their own computing capability. As computing technology becomes more advanced and less expensive, it can be incorporated an increasing number of devices of all kinds. This area covers such as embedded systems, radiofrequency identification (RFID), radiofrequency microelectromechanical system (RF MEMS), very-large-scale integration (VLSI) design and electronic devices, analog and mixed-signal integrated circuit (IC) design and testing, microelectromechanical system (MEMS) and microsystems, solar cells and photonics, nanodevices, single electron and spintronics devices, space electronics, and intelligent robotics.