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Sensors and Actuators in Smart Cities - Mohammad Hammoudeh

2018-05-04

This book is a printed edition of the Special Issue "Sensors and Actuators in Smart Cities" that was published in JSAN

Biochemical Sensors (In 2 Volumes) - Huangxian Ju 2021-06-08

This book covers the full scope of biochemical sensors and offers a survey of the principles, design and applications of the most popular types of biosensing devices. It is presented in 19 chapters, written by 20 distinguished scientists as well as their co-workers. The topics include the design of signal transducers, signal tags and signal amplification strategies, the structure of biosensing interfaces with new biorecognition elements such as aptamers and DNAzymes, and different newly emerging nanomaterials such as Au nanoclusters, carbon nitride, silicon, upconversion nanoparticles and two-dimensional materials, and the applications in wearable detections, biofuel cells, biomarker analyses, bioimaging, single cell analysis and in vivo sensing. By discussing recent advances, it is hoped this book will bridge the common gap between research literature and standard textbooks. Research into biochemical sensors and their biomedical applications is proceeding in a number of exciting directions, as reflected by the content. This book is published in honor of the 90th birthday of Professor Shaojun Dong, who performed many pioneering studies on modified electrodes and biochemical sensors.

EPA-660/3 - 1973-12

The Living Bird - 2015

Learn what America's most venerable ornithological institution has discovered about birds in its past 100 years of study.

Vertiflite - 2000

Jane's Navy International - 2005

Image Sensors and Signal Processing for Digital Still Cameras - Junichi

Nakamura 2017-12-19

Shrinking pixel sizes along with improvements in image sensors, optics, and electronics have elevated DSCs to levels of performance that match, and have the potential to surpass, that of silver-halide film cameras. Image Sensors and Signal Processing for Digital Still Cameras captures the

current state of DSC image acquisition and signal processing technology and takes an all-inclusive look at the field, from the history of DSCs to future possibilities. The first chapter outlines the evolution of DSCs, their basic structure, and their major application classes. The next few chapters discuss high-quality optics that meet the requirements of better image sensors, the basic functions and performance parameters of image sensors, and detailed discussions of both CCD and CMOS image sensors. The book then discusses how color theory affects the uses of DSCs, presents basic image processing and camera control algorithms and examples of advanced image processing algorithms, explores the architecture and required performance of signal processing engines, and explains how to evaluate image quality for each component described. The book closes with a look at future technologies and the challenges that must be overcome to realize them. With contributions from many active DSC experts, Image Sensors and Image Processing for Digital Still Cameras offers unparalleled real-world coverage and opens wide the door for future innovation.

Keys to Play - Roger Moseley 2016-10-28

A free ebook version of this title is available through Luminos, University of California Press's Open Access publishing program for monographs. Visit www.luminosoa.org to learn more. How do keyboards make music playable? Drawing on theories of media, systems, and cultural techniques, Keys to Play spans Greek myth and contemporary Japanese digital games to chart a genealogy of musical play and its animation via improvisation, performance, and recreation. As a paradigmatic digital interface, the keyboard forms a field of play on which the book's diverse objects of inquiry—from clavichords to PCs and eighteenth-century musical dice games to the latest rhythm-action titles—enter into analogical relations. Remapping the keyboard's topography by way of Mozart and Super Mario, who head an expansive cast of historical and virtual actors, Keys to Play invites readers to unlock ludic dimensions of music that are at once old and new.

Alerta bibliográfico - Companhia de Tecnologia de Saneamento Ambiental (São Paulo, Brazil). Biblioteca 1990

Index Medicus - 2001

The impact of disasters and crises on agriculture and food security: 2021 -

Food and Agriculture Organization of the United Nations 2021-03-17

On top of a decade of exacerbated disaster loss, exceptional global heat, retreating ice and rising sea levels, humanity and our food security face a range of new and unprecedented hazards, such as megafires, extreme weather events, desert locust swarms of magnitudes previously unseen, and the COVID-19 pandemic. Agriculture underpins the livelihoods of over 2.5 billion people – most of them in low-income developing countries – and remains a key driver of development. At no other point in history has agriculture been faced with such an array of familiar and unfamiliar risks, interacting in a hyperconnected world and a precipitously changing landscape. And agriculture continues to absorb a disproportionate share of the damage and loss wrought by disasters. Their growing frequency and intensity, along with the systemic nature of risk, are upending people's lives, devastating livelihoods, and jeopardizing our entire food system. This report makes a powerful case for investing in resilience and disaster risk reduction – especially data gathering and analysis for evidence informed action – to ensure agriculture's crucial role in achieving the future we want.

Scientific and Technical Aerospace Reports - 1995

Nanobatteries and Nanogenerators - Huaihe Song 2020-11-21

The term 'nanobattery' can refer not only to the nanosized battery, but also to the uses of nanotechnology in a macro-sized battery for enhancing its performance and lifetime. Nanobatteries can offer many advantages over the traditional battery, including higher power density, shorter charging time, and longer shelf life. Nano-generators refer to the uses of nanosized devices and materials to convert mechanical, thermal and light-based energies into electricity. Similar to with traditional battery, in nanobatteries, the chemical energy is converted into electricity. This book addresses the fundamental design concepts and promising applications of nanobatteries and nanogenerators. Particular application areas include healthcare, biomedical, smart nanodevices and nanosensors, which may require new electric power sources, including self-powered ability and nanostructured electric power sources. In this regard, nanobatteries and nanogenerators represent the next generation of electric power. This is an important reference source for materials scientists, engineers and energy scientists, who are looking to increase their understanding of how nanotechnology is being used to create new energy storage and generation solutions. Outlines the major design and fabrication principles and techniques for creating nano-sized batteries and generators Demonstrates how nanotechnology is being used to make batteries and generators more powerful and longer lasting Assesses the challenges of mass manufacturing nanobatteries and nanogenerators

The Marine Fishery Resources of Sri Lanka - George H. P. De Bruin 1994

The Fingerprint - U. S. Department Justice 2014-08-02

The idea of The Fingerprint Sourcebook originated during a meeting in April 2002. Individuals representing the fingerprint, academic, and scientific communities met in Chicago, Illinois, for a day and a half to discuss the state of fingerprint identification with a view toward the challenges raised by Daubert issues. The meeting was a joint project between the International Association for Identification (IAI) and West Virginia University (WVU). One recommendation that came out of that meeting was a suggestion to create a sourcebook for friction ridge examiners, that is, a single source of researched information regarding the subject. This sourcebook would provide educational, training, and research information for the international scientific community.

Principles of Environmental Physics - John Monteith 1990-02-15

Thoroughly revised and up-dated edition of a highly successful textbook.

Bioconductor Case Studies - Florian Hahne 2010-06-09

Bioconductor software has become a standard tool for the analysis and comprehension of data from high-throughput genomics experiments. Its application spans a broad field of technologies used in contemporary molecular biology. In this volume, the authors present a collection of cases to apply Bioconductor tools in the analysis of microarray gene expression data. Topics covered include: (1) import and preprocessing of data from various sources; (2) statistical modeling of differential gene expression; (3) biological metadata; (4) application of graphs and graph rendering; (5) machine learning for clustering and classification problems; (6) gene set enrichment analysis. Each chapter of this book describes an analysis of real data using hands-on example driven approaches. Short exercises help in the learning process and invite more advanced considerations of key topics. The book is a dynamic document. All the code shown can be executed on a local computer, and readers are able to reproduce every computation, figure, and table.

Underwater Acoustic Sensor Networks - Yang Xiao 2010-05-19

A detailed review of underwater channel characteristics, Underwater Acoustic Sensor Networks investigates the fundamental aspects of underwater communication. Prominent researchers from around the world consider contemporary challenges in the development of underwater acoustic sensor networks (UW-ASNs) and introduce a cross-layer approach for effective integration of all communication functionalities. Discussing architectures for two- and three-dimensional sensor networks, this authoritative resource clearly delineates the main differences between terrestrial and underwater sensor networks—covering the wide range of topics related to UW-ASNs. It examines efficient distributed routing algorithms for delay-insensitive and delay-sensitive applications and introduces a realistic acoustic model characterized by channel utilization efficiency that enables proper setting of the optimal packet size for underwater communication. It also: Provides efficient sensor communication protocols for the underwater environment Addresses the

topology control problem for sparse and dense 3D networks Presents a novel distributed MAC protocol that incorporates a unique closed-loop distributed algorithm for setting the optimal transmit power and code length The book includes coverage of routing, fault tolerance, time synchronization, optimal clustering, medium access control, software, hardware, and channel modeling. Exploring the need to design an energy-efficient cross-layer protocol suite, this resource provides the understanding required to achieve high-performance channel access, routing, event transport reliability, and data flow control with underwater acoustic sensors.

Popular Science - 2002-12

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

When the Emperor Was Divine - Julie Otsuka 2007-12-18

From the bestselling, award-winning author of *The Buddha in the Attic*, this commanding debut novel paints a portrait of the Japanese incarceration camps that is both a haunting evocation of a family in wartime and a resonant lesson for our times. On a sunny day in Berkeley, California, in 1942, a woman sees a sign in a post office window, returns to her home, and matter-of-factly begins to pack her family's possessions. Like thousands of other Japanese Americans they have been reclassified, virtually overnight, as enemy aliens and are about to be uprooted from their home and sent to a dusty incarceration camp in the Utah desert. In this lean and devastatingly evocative first novel, Julie Otsuka tells their story from five flawlessly realized points of view and conveys the exact emotional texture of their experience: the thin-walled barracks and barbed-wire fences, the omnipresent fear and loneliness, the unheralded feats of heroism. *When the Emperor Was Divine* is a work of enormous power that makes a shameful episode of our history as immediate as today's headlines. Don't miss Julie Otsuka's new novel, *The Swimmers*, coming in February 2022!

Cumulated Index Medicus - 1996

Small-scale Aquaponic Food Production - Christopher Somerville 2015

This technical paper begins by introducing the concept of aquaponics, including a brief history of its development and its place within the larger category of soil-less culture and modern agriculture. It discusses the main theoretical concepts of aquaponics, including the nitrogen cycle and the nitrification process, the role of bacteria, and the concept of balancing an aquaponic unit. It then moves on to cover important considerations of water quality parameters, water testing, and water sourcing for aquaponics, as well as methods and theories of unit design, including the three main methods of aquaponic systems: media beds, nutrient film technique, and deep water culture. The publication discusses in detail the

three groups of living organisms (bacteria, plants and fish) that make up the aquaponic ecosystem. It also presents management strategies and troubleshooting practices, as well as related topics, specifically highlighting local and sustainable sources of aquaponic inputs. The publication also includes nine appendixes that present other key topics: ideal conditions for common plants grown in aquaponics; chemical and biological controls of common pests and diseases including a compatible planting guide; common fish diseases and related symptoms, causes and remedies; tools to calculate the ammonia produced and biofiltration media required for a certain fish stocking density and amount of fish feed added; production of homemade fish feed; guidelines and considerations for establishing aquaponic units; a cost-benefit analysis of a small-scale, media bed aquaponic unit; a comprehensive guide to building small-scale versions of each of the three aquaponic methods; and a brief summary of this publication designed as a supplemental handout for outreach, extension and education.

UAV Sensors for Environmental Monitoring - Felipe Gonzalez Toro 2018-03-05

This book is a printed edition of the Special Issue "UAV Sensors for Environmental Monitoring" that was published in *Sensors*

Drones for Biodiversity Conservation and Ecological Monitoring - Ricardo Díaz-Delgado 2019-12-18

Unmanned aerial vehicles (UAV) have already become an affordable and cost-efficient tool to quickly map a targeted area for many emerging applications in the arena of ecological monitoring and biodiversity conservation. Managers, owners, companies, and scientists are using professional drones equipped with high-resolution visible, multispectral, or thermal cameras to assess the state of ecosystems, the effect of disturbances, or the dynamics and changes within biological communities inter alia. We are now at a tipping point on the use of drones for these type of applications over natural areas. UAV missions are increasing but most of them are testing applicability. It is time now to move to frequent revisiting missions, aiding in the retrieval of important biophysical parameters in ecosystems or mapping species distributions. This Special Issue shows UAV applications contributing to a better understanding of biodiversity and ecosystem status, threats, changes, and trends. It documents the enhancement of knowledge in ecological integrity parameters mapping, long-term ecological monitoring based on drones, mapping of alien species spread and distribution, upscaling ecological variables from drone to satellite images: methods and approaches, rapid risk and disturbance assessment using drones, mapping albedo with UAVs, wildlife tracking, bird colony and chimpanzee nest mapping, habitat mapping and monitoring, and a review on drones for conservation in protected areas.

Bioengineering Aspects in the Design of Gas Exchangers - John N. Maina 2011-06-24

This book encapsulates over three decades of the author's work on comparative functional respiratory morphology. It provides insights into the mechanism(s) by which respiratory means and processes originated and advanced to their modern states. Pertinent cross-disciplinary details and facts have been integrated and reexamined in order to arrive at more robust answers to questions regarding the basis of the functional designs of gas exchangers. The utilization of oxygen for energy production is an ancient process, the development and progression of which were underpinned by dynamic events in the biological, physical, and chemical worlds. Many books that have broached the subject of comparative functional respiratory biology have only described the form and function of the 'end-product,' the gas exchanger; they have scarcely delved into the factors and the conditions that motivated and steered the development from primeval to modern respiratory means and processes. This book addresses and answers broad questions concerning the critical synthesis of multidisciplinary data, and clarifies previously cryptic aspects of comparative respiratory biology.

Designing Self-Organization in the Physical Realm - Heiko Hamann
2020-12-31

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Cornell - Glenn C. Altschuler 2014-08-12

In their history of Cornell since 1940, Glenn C. Altschuler and Isaac Kramnick examine the institution in the context of the emergence of the modern research university. The book examines Cornell during the Cold War, the civil rights movement, Vietnam, antiapartheid protests, the ups and downs of varsity athletics, the women's movement, the opening of relations with China, and the creation of Cornell NYC Tech. It relates profound, fascinating, and little-known incidents involving the faculty, administration, and student life, connecting them to the "Cornell idea" of freedom and responsibility. The authors had access to all existing papers of the presidents of Cornell, which deeply informs their respectful but unvarnished portrait of the university. Institutions, like individuals, develop narratives about themselves. Cornell constructed its sense of self, of how it was special and different, on the eve of World War II, when America defended democracy from fascist dictatorship. Cornell's fifth president, Edmund Ezra Day, and Carl Becker, its preeminent historian, discerned what they called a Cornell "soul," a Cornell "character," a Cornell "personality," a Cornell "tradition"—and they called it "freedom." "The

Cornell idea" was tested and contested in Cornell's second seventy-five years. Cornellians used the ideals of freedom and responsibility as weapons for change—and justifications for retaining the status quo; to protect academic freedom—and to rein in radical professors; to end in loco parentis and parietal rules, to preempt panty raids, pornography, and pot parties, and to reintroduce regulations to protect and promote the physical and emotional well-being of students; to add nanofabrication, entrepreneurship, and genomics to the curriculum—and to require language courses, freshmen writing, and physical education. In the name of freedom (and responsibility), black students occupied Willard Straight Hall, the anti-Vietnam War SDS took over the Engineering Library, proponents of divestment from South Africa built campus shantytowns, and Latinos seized Day Hall. In the name of responsibility (and freedom), the university reclaimed them. The history of Cornell since World War II, Altschuler and Kramnick believe, is in large part a set of variations on the narrative of freedom and its partner, responsibility, the obligation to others and to one's self to do what is right and useful, with a principled commitment to the Cornell community—and to the world outside the Eddy Street gate.

Government Reports Announcements & Index - 1991

The Conservation of Cave 85 at the Mogao Grottoes, Dunhuang - Neville Agnew 2014-02-01

The Mogao Grottoes, a World Heritage Site in northwestern China, are located along the ancient caravan routes—collectively known as the Silk Road—that once linked China with the West. Founded by a Buddhist monk in the late fourth century, Mogao flourished over the following millennium, as monks, local rulers, and travelers commissioned hundreds of cave temples cut into a mile-long rock cliff and adorned them with vibrant murals. More than 490 decorated grottoes remain, containing thousands of sculptures and some 45,000 square meters of wall paintings, making Mogao one of the world's most significant sites of Buddhist art. In 1997 the Getty Conservation Institute, which had been working with the Dunhuang Academy since 1989, began a case study using the Late-Tang dynasty Cave 85 to develop a methodology that would stabilize the deteriorating wall paintings. This abundantly illustrated volume is the definitive report on the project, which was completed in 2010.

Plato and the Divided Self - Rachel Barney 2012-02-16

Investigates Plato's account of the tripartite soul, looking at how the theory evolved over the Republic, Phaedrus and Timaeus.

Monthly Catalog of United States Government Publications - United States. Superintendent of Documents 1991

February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

Conservation Drones - Serge A. Wich 2018

This book aims to further build capacity in the conservation community to use drones for conservation and inspire others to adapt emerging technologies for conservation.

Artificial Intelligence for Renewable Energy and Climate Change - Pandian Vasant 2022-08-23

ARTIFICIAL INTELLIGENCE FOR RENEWABLE ENERGY AND CLIMATE CHANGE Written and edited by a global team of experts in the field, this groundbreaking new volume presents the concepts and fundamentals of using artificial intelligence in renewable energy and climate change, while also covering the practical applications that can be utilized across multiple disciplines and industries, for the engineer, the student, and other professionals and scientists. Renewable energy and climate change are two of the most important and difficult issues facing the world today. The state of the art in these areas is changing rapidly, with new techniques and theories coming online seemingly every day. It is important for scientists, engineers, and other professionals working in these areas to stay abreast of developments, advances, and practical applications, and this volume is an outstanding reference and tool for this purpose. The paradigm in renewable energy and climate change shifts constantly. In today's international and competitive environment, lean and green practices are important determinants to increase performance.

Corresponding production philosophies and techniques help companies diminish lead times and costs of manufacturing, improve delivery on time and quality, and at the same time become more ecological by reducing material use and waste, and by recycling and reusing. Those lean and green activities enhance productivity, lower carbon footprint and improve consumer satisfaction, which in reverse makes firms competitive and sustainable. This practical, new groundbreaking volume: Features coverage on a wide range of topics such as classical and nature-inspired optimization and optimal control, hybrid and stochastic systems Is ideally designed for engineers, scientists, industrialist, academicians, researchers, computer and information technologists, sustainable developers, managers, environmentalists, government leaders, research officers, policy makers, business leaders and students Is useful as a practical tool for practitioners in the fields of sustainable and renewable energy

sustainability Includes wide coverage of how artificial intelligence can be used to impact the struggle against global warming and climate change
Monthly Catalog of United States Government Publications, Cumulative Index - United States. Superintendent of Documents 1976

Introduction to Autonomous Mobile Robots, second edition - Roland Siegwart 2011-02-18

The second edition of a comprehensive introduction to all aspects of mobile robotics, from algorithms to mechanisms. Mobile robots range from the Mars Pathfinder mission's teleoperated Sojourner to the cleaning robots in the Paris Metro. This text offers students and other interested

readers an introduction to the fundamentals of mobile robotics, spanning the mechanical, motor, sensory, perceptual, and cognitive layers the field comprises. The text focuses on mobility itself, offering an overview of the mechanisms that allow a mobile robot to move through a real world environment to perform its tasks, including locomotion, sensing, localization, and motion planning. It synthesizes material from such fields as kinematics, control theory, signal analysis, computer vision, information theory, artificial intelligence, and probability theory. The book presents the techniques and technology that enable mobility in a series of interacting modules. Each chapter treats a different aspect of mobility, as the book moves from low-level to high-level details. It covers all aspects of mobile robotics, including software and hardware design considerations, related technologies, and algorithmic techniques. This second edition has been revised and updated throughout, with 130 pages of new material on such topics as locomotion, perception, localization, and planning and navigation. Problem sets have been added at the end of each chapter. Bringing together all aspects of mobile robotics into one volume, *Introduction to Autonomous Mobile Robots* can serve as a textbook or a working tool for beginning practitioners. Curriculum developed by Dr. Robert King, Colorado School of Mines, and Dr. James Conrad, University of North Carolina-Charlotte, to accompany the National Instruments LabVIEW Robotics Starter Kit, are available. Included are 13 (6 by Dr. King and 7 by Dr. Conrad) laboratory exercises for using the LabVIEW Robotics Starter Kit to teach mobile robotics concepts.

Acts of Gaiety - Sara Warner 2012-10-26

Against queer theory's long-suffering romance with mourning and melancholia and a national agenda that urges homosexuals to renounce pleasure if they want to be taken seriously, *Acts of Gaiety* seeks to reanimate notions of "gaiety" as a political value for LGBT activism by recovering earlier mirthful modes of political performance. The book mines the archives of lesbian-feminist activism of the 1960s–70s, highlighting the outrageous gaiety—including camp, kitsch, drag, guerrilla theater, zap actions, rallies, manifestos, pageants, and parades alongside "legitimate theater"—at the center of the social and theatrical performances of the era. Juxtaposing figures such as Valerie Solanas and Jill Johnston with more recent performers and activists including Hothead Paisan, Bitch and Animal, and the Five Lesbian Brothers, Sara Warner shows how reclaiming this largely discarded and disavowed past elucidates possibilities for being and belonging. *Acts of Gaiety* explores the mutually informing histories of gayness as politics and as *joie de vivre*, along with the centrality of liveliness to queer performance and protest.

MEMS/MOEMS Components and Their Applications - 2007

Measurement, Instrumentation, and Sensors Handbook - John G. Webster 2017-12-19

The Second Edition of the bestselling *Measurement, Instrumentation, and*

Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Spatial, Mechanical, Thermal, and Radiation Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all 96 existing chapters Covers instrumentation and measurement concepts, spatial and mechanical variables, displacement, acoustics, flow and spot velocity, radiation, wireless sensors and instrumentation, and control and human factors A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition:

Spatial, Mechanical, Thermal, and Radiation Measurement provides readers with a greater understanding of advanced applications.

X-15 - Dennis R. Jenkins 2007

1. A new science / 2. A hypersonic research airplane / 3. Conflict and innovation / 4. The million-horsepower engine / 5. High range and dry lakes / 6. Preparations / 7. The flight program / 8. The research program.

Artificial Intelligence and Security - Xingming Sun 2020-08-31

This two-volume set LNCS 12239-12240 constitutes the refereed proceedings of the 6th International Conference on Artificial Intelligence and Security, ICAIS 2020, which was held in Hohhot, China, in July 2020. The conference was formerly called "International Conference on Cloud Computing and Security" with the acronym ICCCS. The total of 142 full papers presented in this two-volume proceedings was carefully reviewed and selected from 1064 submissions. The papers were organized in topical sections as follows: Part I: Artificial intelligence and internet of things. Part II: Internet of things, information security, big data and cloud computing, and information processing.