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Ubiquitous Networking CRC Press

Sensor Technologies: Healthcare, Wellness and Environmental Applications explores the key aspects of sensor technologies, covering wired, wireless, and discrete sensors for the specific application domains of healthcare, wellness and environmental sensing. It discusses the social, regulatory, and design considerations specific to these domains. The book provides an application-based approach using real-world examples to illustrate the application of sensor technologies in a practical and experiential manner. The book guides the reader from the formulation of the research question, through the design and validation process, to the deployment and management phase of sensor applications. The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs. "Sensor Technologies: Healthcare, Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare, wellness, and environmental monitoring. From sensor hardware to system applications and case studies, this book gives readers an in-depth understanding of the technologies and how they can be applied. I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications." Dr. Benny Lo Lecturer, The

Hamlyn Centre, Imperial College of London "This timely addition to the literature on sensors covers the broad complexity of sensing, sensor types, and the vast range of existing and emerging applications in a very clearly written and accessible manner. It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud-based 'big data' analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present. It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of 'big data' down to the personal level of individual life and health." Dermot Diamond Director, National Centre for Sensor Research, Principal Investigator, CLARITY Centre for Sensor Web Technologies, Dublin City University "Sensor Technologies: Healthcare, Wellness and Environmental Applications takes the reader on an end-to-end journey of sensor technologies, covering the fundamentals from an engineering perspective, introducing how the data gleaned can be both processed and visualized, in addition to offering exemplar case studies in a number of application domains. It is a must-read for those studying any undergraduate course that involves sensor technologies. It also provides a thorough foundation for those involved in the research and development of applied sensor systems. I highly recommend it to any engineer who wishes to broaden their knowledge in this area!" Chris Nugent Professor of Biomedical Engineering, University of Ulster

[A User's Guide](#) Springer

This Handbook presents a complete and rigorous overview of the fundamentals, methods and applications of the multidisciplinary field of Global Navigation Satellite Systems (GNSS), providing an exhaustive, one-stop reference work and a state-of-the-art description of GNSS as a key technology for science and society at large. All global and regional satellite navigation systems, both those currently in operation and those under development (GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS/NAVIC, SBAS), are examined in detail. The

functional principles of receivers and antennas, as well as the advanced algorithms and models for GNSS parameter estimation, are rigorously discussed. The book covers the broad and diverse range of land, marine, air and space applications, from everyday GNSS to high-precision scientific applications and provides detailed descriptions of the most widely used GNSS format standards, covering receiver formats as well as IGS product and meta-data formats. The full coverage of the field of GNSS is presented in seven parts, from its fundamentals, through the treatment of global and regional navigation satellite systems, of receivers and antennas, and of algorithms and models, up to the broad and diverse range of applications in the areas of positioning and navigation, surveying, geodesy and geodynamics, and remote sensing and timing. Each chapter is written by international experts and amply illustrated with figures and photographs, making the book an invaluable resource for scientists, engineers, students and institutions alike.

9th Computer Networking Conference Chelsea Green Publishing Company

Using the new OpenCL (Open Computing Language) standard, you can write applications that access all available programming resources: CPUs, GPUs, and other processors such as DSPs and the Cell/B.E. processor. Already implemented by Apple, AMD, Intel, IBM, NVIDIA, and other leaders, OpenCL has outstanding potential for PCs, servers, handheld/embedded devices, high performance computing, and even cloud systems. This is the first comprehensive, authoritative, and practical guide to OpenCL 1.1 specifically for working developers and software architects. Written by five leading OpenCL authorities, OpenCL Programming Guide covers the entire specification. It reviews key use cases, shows how OpenCL can express a wide range of parallel algorithms, and offers complete reference material on both the API and OpenCL C programming language. Through complete case studies and downloadable code examples, the authors show how to write complex parallel programs that decompose workloads across many different devices. They also present all the essentials of OpenCL software performance optimization, including probing and adapting to hardware. Coverage includes Understanding OpenCL 's architecture, concepts, terminology, goals, and rationale Programming with OpenCL C and the runtime API Using buffers, sub-buffers, images, samplers, and events Sharing and synchronizing data with OpenGL and Microsoft 's Direct3D Simplifying development with the C++ Wrapper API Using OpenCL Embedded Profiles to support devices ranging from cellphones to supercomputer nodes Case studies dealing with physics simulation; image and signal processing, such as image histograms, edge detection filters, Fast Fourier Transforms, and optical flow; math libraries, such as matrix multiplication and high-performance sparse matrix multiplication; and more Source code for this book is available at <https://code.google.com/p/opencl-book-samples/>

Proceedings of the International Conference on Soft Computing Systems National Academies Press

High-performance electronics are key to the U.S. Air Force's (USAF's) ability to deliver lethal effects at the time and location of their choosing. Additionally, these electronic systems must be able to withstand not only the rigors of the battlefield but be able to perform the needed mission while under cyber and electronic warfare (EW) attack. This requires a high degree of assurance that they are both physically reliable and resistant to adversary actions throughout their life cycle from design to sustainment. In 2016, the National Academies of Sciences, Engineering, and Medicine convened a workshop titled Optimizing the Air Force's Acquisition Strategy of Secure and Reliable Electronic Components, and released a summary of the workshop. This publication serves as a follow-on to provide recommendations to the USAF acquisition community.

4th International Symposium, UNet 2018, Hammamet, Tunisia, May 2 – 5, 2018, Revised Selected Papers Newnes

Electricity has shaped the modern world. But how has it affected our health and environment? Over the last 220 years, society has evolved a universal belief that electricity is 'safe' for humanity and the planet. Scientist and journalist Arthur Firstenberg disrupts this conviction by telling the story of electricity in a way it has never been told before--from an environmental point of view--by detailing the effects that this fundamental

societal building block has had on our health and our planet. In *The Invisible Rainbow*, Firstenberg traces the history of electricity from the early eighteenth century to the present, making a compelling case that many environmental problems, as well as the major diseases of industrialized civilization--heart disease, diabetes, and cancer--are related to electrical pollution.

Heterogeneous Computing with OpenCL Springer

PIC Microcontrollers are a favorite in industry and with hobbyists. These microcontrollers are versatile, simple, and low cost making them perfect for many different applications. The 8-bit PIC is widely used in consumer electronic goods, office automation, and personal projects. Author, Dogan Ibrahim, author of several PIC books has now written a book using the PIC18 family of microcontrollers to create projects with SD cards. This book is ideal for those practicing engineers, advanced students, and PIC enthusiasts that want to incorporate SD Cards into their devices. SD cards are cheap, fast, and small, used in many MP3 players, digital and video cameras, and perfect for microcontroller applications. Complete with Microchip's C18 student compiler and using the C language this book brings the reader up to speed on the PIC 18 and SD cards, knowledge which can then be harnessed for hands-on work with the eighteen projects included within. Two great technologies are brought together in this one practical, real-world, hands-on cookbook perfect for a wide range of PIC fans. Eighteen fully worked SD projects in the C programming language Details memory cards usage with the PIC18 family

OpenCL Programming Guide Newnes

This book uncovers stakes and possibilities offered by Computational Intelligence and Predictive Analytics to Medical Science. The main focus is on data technologies, classification, analysis and mining, information retrieval, and in the algorithms needed to elaborate the informations. A section with use cases and applications follows the two main parts of the book, respectively dedicated to the foundations and techniques of the discipline.

SD Card Projects Using the PIC Microcontroller Springer Nature

This User 's Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health care products and services, to measure or monitor safety and harm, and/or to measure quality of care. Registries are classified according to how their populations are defined. For example, product registries include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or heart failure. The User 's Guide was created by researchers affiliated with AHRQ 's Effective Health Care Program, particularly those who participated in AHRQ 's DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews.

Registries for Evaluating Patient Outcomes Office for Official Publications of the European Communities

ARM-based Microcontroller Projects Using mbed gives readers a good understanding of the basic architecture and programming of ARM-based microcontrollers using ARM 's mbed software. The book presents the technology through a project-based approach with clearly structured sections that enable readers to use or modify them for their application. Sections include: Project title, Description of the project, Aim of the project, Block diagram of the project, Circuit diagram of the project, Construction of the project, Program listing, and a Suggestions for expansion. This book will be a

valuable resource for professional engineers, students and researchers in computer engineering, computer science, automatic control engineering and mechatronics. Includes a wide variety of projects, such as digital/analog inputs and outputs (GPIO, ADC, DAC), serial communications (UART, I2C, SPI), WIFI, Bluetooth, DC and servo motors Based on the popular Nucleo-L476RG development board, but can be easily modified to any ARM compatible processor Shows how to develop robotic applications for a mobile robot Contains complete mbed program listings for all the projects in the book

LTE - The UMTS Long Term Evolution Morgan Kaufmann

Heterogeneous Computing with OpenCL, Second Edition teaches OpenCL and parallel programming for complex systems that may include a variety of device architectures: multi-core CPUs, GPUs, and fully-integrated Accelerated Processing Units (APUs) such as AMD Fusion technology. It is the first textbook that presents OpenCL programming appropriate for the classroom and is intended to support a parallel programming course. Students will come away from this text with hands-on experience and significant knowledge of the syntax and use of OpenCL to address a range of fundamental parallel algorithms. Designed to work on multiple platforms and with wide industry support, OpenCL will help you more effectively program for a heterogeneous future. Written by leaders in the parallel computing and OpenCL communities, Heterogeneous Computing with OpenCL explores memory spaces, optimization techniques, graphics interoperability, extensions, and debugging and profiling. It includes detailed examples throughout, plus additional online exercises and other supporting materials that can be downloaded at

http://www.heterogeneouscompute.org/?page_id=7 This book will appeal to software engineers, programmers, hardware engineers, and students/advanced students. Explains principles and strategies to learn parallel programming with OpenCL, from understanding the four abstraction models to thoroughly testing and debugging complete applications. Covers image processing, web plugins, particle simulations, video editing, performance optimization, and more. Shows how OpenCL maps to an example target architecture and explains some of the tradeoffs associated with mapping to various architectures Addresses a range of fundamental programming techniques, with multiple examples and case studies that demonstrate OpenCL extensions for a variety of hardware platforms

Concepts in Space Science Newnes

This comprehensive book focuses on better big-data security for healthcare organizations. Following an extensive introduction to the Internet of Things (IoT) in healthcare including challenging topics and scenarios, it offers an in-depth analysis of medical body area networks with the 5th generation of IoT communication technology along with its nanotechnology. It also describes a novel strategic framework and computationally intelligent model to measure possible security vulnerabilities in the context of e-health. Moreover, the book addresses healthcare systems that handle large volumes of data driven by patients' records and health/personal information, including big-data-based knowledge management systems to support clinical decisions. Several of the issues faced in storing/processing big data are presented along with the available tools, technologies and algorithms to deal with those problems as well as a case study in healthcare analytics. Addressing trust, privacy, and security issues as well as the IoT and big-data challenges, the book highlights the advances in the field to guide engineers developing different IoT devices and evaluating the performance of different

IoT techniques. Additionally, it explores the impact of such technologies on public, private, community, and hybrid scenarios in healthcare. This book offers professionals, scientists and engineers the latest technologies, techniques, and strategies for IoT and big data.

Pro Visual Studio .NET Walter de Gruyter GmbH & Co KG

This book gathers selected high-quality research papers presented at the Fifth International Congress on Information and Communication Technology, held at Brunel University, London, on February 20 – 21, 2020. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies.

A Pragmatic Approach Routledge

Putting forward an innovative approach to solving current technological problems faced by human society, this book encompasses a holistic way of perceiving the potential of natural systems. Nature has developed several materials and processes which both maintain an optimal performance and are also totally biodegradable, properties which can be used in civil engineering. Delivering the latest research findings to building industry professionals and other practitioners, as well as containing information useful to the public, 'Biotechnologies and Biomimetics for Civil Engineering' serves as an important tool to tackle the challenges of a more sustainable construction industry and the future of buildings.

The Gartner Group Glossary of Information Technology Acronyms and Terms Springer Science & Business Media

This document is designed to be a resource for those Linux users wishing to seek clarification on Linux/UNIX/POSIX related terms and jargon. At approximately 24000 definitions and two thousand pages it is one of the largest Linux related dictionaries currently available. Due to the rapid rate at which new terms are being created it has been decided that this will be an active project. We welcome input into the content of this document. At this moment in time half yearly updates are being envisaged. Please note that if you wish to find a 'Computer Dictionary' then see the 'Computer Dictionary Project' at <http://computerdictionary.tsf.org.za/> Searchable databases exist at locations such as: <http://www.swpearl.com/eng/scripts/dictionary/> (SWP) Sun Wah-PearL Linux Training and Development Centre is a centre of the Hong Kong Polytechnic University, established in 2000. Presently SWP is delivering professional grade Linux and related Open Source Software (OSS) technology training and consultant service in Hong Kong. SWP has an ambitious aim to promote the use of Linux and related Open Source Software (OSS) and Standards. The vendor independent positioning of SWP has been very well perceived by the market. Throughout the last couple of years, SWP becomes the Top Leading OSS training and service provider in Hong Kong.

<http://www.geona.com/dictionary?b=> Geona, operated by Gold Vision Communications, is a new powerful search engine and internet directory, delivering quick and relevant results on almost any topic or subject you can imagine. The term "Geona" is an Italian and Hebrew name, meaning wisdom, exaltation, pride or majesty. We use our own database of spidered web sites and the Open Directory database, the same database which powers the core directory services for the Web's largest and most popular search engines and portals. Geona is spidering all domains listed in the non-adult part of the Open Directory and millions of additional sites of general interest to maintain a fulltext index of highly relevant web sites. <http://www.linuxdig.com/documents/dictionary.php>

LINUXDIG.COM, "Yours News and Resource Site", LinuxDig.com was started in May 2001 as a hobby site with the original intention of getting the RFC's online and becoming an Open Source software link/download site. But since that time the site has evolved to become a RFC distribution site, linux news site and a locally written technology news site (with bad grammar :) with focus on Linux while also containing articles about anything and everything we find interesting in the computer world. LinuxDig.Com contains about 20,000 documents and this number is growing everyday! <http://linux.about.com/library/glossary/blglossary.htm> Each month more than 20 million people visit About.com. Whether it be home repair and decorating ideas, recipes, movie trailers, or car buying tips, our Guides offer practical advice and solutions for every day life. Wherever you land on the new About.com, you'll find other content that is relevant to your interests. If you're looking for "How To" advice on planning to re-finish your deck, we'll also show you the tools you need to get the job done. If you've been to About before, we'll show you the latest updates, so you don't see the same thing twice. No matter where you are on About.com, or how you got here, you'll always find content that is relevant to your needs. Should you wish to possess your own localised searchable version please make use of the available "dict", <http://www.dict.org/> version at the Linux Documentation Project home page, <http://www.tldp.org/> The author has decided to leave it up to readers to determine how to install and run it on their specific systems. An alternative form of the dictionary is available at: <http://elibrary.fultus.com/covers/technical/linux/guides/Linux-Dictionary/cover.html> Fultus Corporation helps writers and companies to publish, promote, market, and sell books and eBooks. Fultus combines traditional self-publishing practices with modern technology to produce paperback and hardcover print-on-demand (POD) books and electronic books (eBooks). Fultus publishes works (fiction, non-fiction, science fiction, mystery, ...) by both published and unpublished authors. We enable you to self-publish easily and cost-effectively, creating your book as a print-ready paperback or hardcover POD book or as an electronic book (eBook) in multiple eBook's formats. You retain all rights to your work. We provide distribution to bookstores worldwide. And all at a fraction of the cost of traditional publishing. We also offer corporate publishing solutions that enable businesses to produce and deliver manuals and documentation more efficiently and economically. Our use of electronic delivery and print-on-demand technologies reduces printed inventory and saves time. Please inform the author as to whether you would like to create a database or an alternative form of the dictionary so that he can include you in this list. Also note that the author considers breaches of copyright to be extremely serious. He will pursue all claims to the fullest extent of the law. ICICT 2020, London, Volume 2 Proceedings of the 1st International Congress on Engineering Technologies EngiTek 2020, 16-18 June 2020, Irbid, Jordan

The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a 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.

Healthcare, Wellness and Environmental Applications Springer

Heterogeneous Computing with OpenCL 2.0 teaches OpenCL and parallel programming for complex systems that may include a variety of device architectures: multi-core CPUs, GPUs, and fully-integrated Accelerated Processing Units (APUs). This fully-revised edition includes the latest enhancements in OpenCL

2.0 including:

- Shared virtual memory to increase programming flexibility and reduce data transfers that consume resources
- Dynamic parallelism which reduces processor load and avoids bottlenecks
- Improved imaging support and integration with OpenGL

Designed to work on multiple platforms, OpenCL will help you more effectively program for a heterogeneous future. Written by leaders in the parallel computing and OpenCL communities, this book explores memory spaces, optimization techniques, extensions, debugging and profiling. Multiple case studies and examples illustrate high-performance algorithms, distributing work across heterogeneous systems, embedded domain-specific languages, and will give you hands-on OpenCL experience to address a range of fundamental parallel algorithms. Updated content to cover the latest developments in OpenCL 2.0, including improvements in memory handling, parallelism, and imaging support Explanations of principles and strategies to learn parallel programming with OpenCL, from understanding the abstraction models to thoroughly testing and debugging complete applications Example code covering image analytics, web plugins, particle simulations, video editing, performance optimization, and more

Improving Diagnosis in Health Care Universities Press

This book gathers selected high-quality research papers presented at the Sixth International Congress on Information and Communication Technology, held at Brunel University, London, on February 25 – 26, 2021. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The book is presented in four volumes.

ICICT 2021, London, Volume 3 John Wiley & Sons

* This book offers a clear path of discovery into VS .NET to get you comfortable with it and then demonstrates how to effectively tweak it to the development need. * Very well received original edition : >9000 sales before liquidation forced de-stock. * Offers a look forward to Visual Studio.NET (Whidbey). * Joins with our family of Visual Studio.NET books from Apress: This book + 1590590260 Writing Add-Ins for Visual Studio.NET (Les Smith)+ 1-59059-042-2 Enterprise Development with Visual Studio .NET, UML, and MSF (Hansen, Thomsen).

Proceedings of the 1st International Congress on Engineering Technologies Springer

This book discusses the design of the new mobility assistive information and communication technologies (ICT) devices for the visually impaired. The book begins with a definition of the space concept, followed by the concept of interaction with a space during mobility and this interaction characteristics. The contributors will then examine the neuro-cognitive basis of space perception for mobility and different theories of space perception. The text presents the existing technologies for space perception (sense recovery with stem and iPS cells, implants, brain plasticity, sensory substitution devices, multi modal technologies, etc.), the newest technologies for mobility assistance design, the way the feedback on environment is conveyed to the end-user. Methods for formative and summative evaluations of the mobility devices will also be discussed. The book concludes with a look to the future trends in research and technology development for mobility assistive information and communication technologies.

European GNSS (Galileo) Open Service Springer Science & Business Media

This book presents the latest findings in the areas of data management and smart computing, machine learning, big data management, artificial intelligence, and data analytics, along with advances in network technologies. The book is a collection of peer-reviewed research papers presented at Fifth International Conference on Data Management, Analytics and Innovation (ICDMAI 2021), held during January 15 – 17, 2021, in a virtual mode. It addresses state-of-the-art topics and discusses challenges and solutions for future development. Gathering original, unpublished contributions by scientists from around the globe, the book is mainly intended for a professional audience of researchers and practitioners in academia and industry.