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Introductory to Advanced Projects Government Printing Office

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.

The Gartner Group Glossary of Information Technology Acronyms and Terms Chelsea Green Publishing Company
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.

Proceedings of the 1st International Congress on Engineering Technologies

Springer Science & Business Media

PIC32 Microcontrollers and the Digilent chipKIT: Introductory to Advanced Projects will teach you about the architecture of 32-bit processors and the hardware details of the chipKIT development boards, with a focus on the chipKIT MX3 microcontroller development board. Once the basics are covered, the book then moves on to describe the MPLAB and MPIDE packages using the C language for program development. The final part of the book is based on project

development, with techniques learned in earlier chapters, using projects as examples. Each project will have a practical approach, with in-depth descriptions and program flow-charts with block diagrams, circuit diagrams, a full program listing and a follow up on testing and further development. With this book you will learn:
State-of-the-art PIC32 32-bit microcontroller architecture
How to program 32-bit PIC microcontrollers using MPIDE, MPLAB, and C language
Core features of the chipKIT series development boards
How to develop simple projects using the chipKIT MX3 development board and Pmod interface cards
how to develop advanced projects using the chipKIT MX3 development boards
Demonstrates how to use the PIC32 series of microcontrollers in real, practical applications, and make the connection between hardware and software programming
Usage of the PIC32MX320F128H microcontroller, which has many features of the PIC32 device and is included on the chipKIT MX3 development board
Uses the highly popular chipKIT development boards, and the PIC32 for real world applications, making this book one of a kind

ARM-based Microcontroller Projects Using mbed Universities 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 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.
Heterogeneous Computing with OpenCL Springer Science & Business Media

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.

Linux Dictionary Springer

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.

The E-portfolio Paradigm National Academies Press
Proceedings of the 1st International Congress on Engineering Technologies EngiTek 2020, 16-18 June 2020, Irbid, Jordan
CRC Press

Informing, Educating, Assessing, and Managing with E-portfolios Springer Nature

To advance education about ICT standardization, comprehensive and up-to-date teaching materials must be available. With the support of the European Commission, ETSI has developed this textbook to facilitate education on ICT standardization, and to raise the knowledge level of ICT standardization-related topics among lecturers and students in higher education, in particular in the fields of engineering, business administration and law. Readers of this book are not required to have any previous knowledge about standardization. They are introduced firstly to the key concepts of standards and standardization, different elements of the ecosystem and how they interact, as well as the procedures required for the production of standardization documents. Then, readers are taken to the next level by addressing aspects related to standardization such as innovation, strategy, business, and economics. This textbook is an attempt to make ICT standardization accessible and understandable to students. It covers the essentials that are required to get a good overview of the field. The book is organized in chapters that are self-contained, although it would be advantageous to read the book from cover to cover. Each chapter begins with a list of learning objectives and key messages. The text is enriched with examples and case studies from real standardization practice to illustrate the key theoretical concepts. Each chapter also includes a quiz to be used as a self-assessment learning activity. Furthermore, each book chapter includes a glossary and lists of abbreviations and references. Alongside the textbook, we have produced a set of slides that are intended to serve as complementary teaching materials in face-to-face teaching sessions. For all interested parties there is also an electronic version of the textbook as well

as the accompanying slides that can be downloaded for free from the ETSI website (www.etsi.org/standardization-education).

A History of Electricity and Life Springer Nature

This book provides practising executives and academics with the theories and best practices to plan and implement the digital transformation successfully. Key benefits: an overview on how leading companies plan and implement digital transformation interviews with chief executive officers and chief digital officers of leading companies – Bulgari, Deutsche Bahn, Henkel, Lanxess, L'Oréal, Unilever, Thales and others – explore lessons learnt and roadmaps to successful implementation research and case studies on the digitalization of small and medium-sized companies cutting-edge academic research on business models, organizational capabilities and performance implications of the digital transformation tools and insights into how to overcome internal resistance, build digital capabilities, align the organization, develop the ecosystem and create customer value to implement digital strategies that increase profits Managing Digital Transformation is unique in its approach, combining rigorous academic theory with practical insights and contributions from companies that are, according to leading academic thinkers, at the forefront of global best practice in the digital transformation. It is a recommended reading both for practitioners looking to implement digital strategies within their own organisations, as well as for academics and postgraduate students studying digital transformation, strategy and marketing.

Proceedings of the International Conference on Soft Computing Systems Apress

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.

Mobility of Visually Impaired People Office for Official Publications of the European Communities

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/opencv-book-samples/>

LTE - The UMTS Long Term Evolution Createspace Independent Publishing Platform

Addressed to practitioners of healthcare administration, the book looks beyond traditional information systems. This text suggests how information systems can bring a competitive advantage to hospitals and other healthcare providers. Its viewpoint is neither technical nor clinical. Rather it is concerned with the role and the use of information in the provision of healthcare. The text is divided into several reader-friendly units, which allows the reader to quickly select only what he wants to study in depth. Divided into two sections, one dealing with support for the private practitioner, the other with managing an institution, the material spans a wide array of types of computers. This provides valuable instructional information for nurses, physicians and administrators using the computer as a tool for providing quality medical care.

Computational Intelligence and Predictive Analysis for Medical Science Springer

This book extends the scientific bestseller "GPS - Theory and Practice" to cover Global Navigation Satellite Systems (GNSS) and includes the Russian GLONASS, the European system Galileo, and additional systems. The book refers to GNSS in the generic sense to describe the various existing reference systems for coordinates and time, the satellite orbits, the satellite signals, observables, mathematical models for positioning, data processing, and data transformation. This book is a university-level introductory textbook and is intended to serve as a reference for students as well as for professionals and scientists in the fields of geodesy, surveying engineering, navigation, and related disciplines.

Equatorial Spread F. Proceedings of the 1st International Congress on Engineering Technologies EngiTek 2020, 16-18 June 2020, Irbid, Jordan

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

ICSCS 2015, Volume 2 Informing Science

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.

Springer Handbook of Global Navigation Satellite Systems Springer

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.

OpenCL Programming Guide Newnes

* 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 Sixth International Congress on Information and Communication Technology Springer
Electronic Logging Devices and Hours of Service Supporting Documents (US Federal Motor Carrier Safety Administration Regulation) (FMCSA) (2018 Edition) The Law Library presents the complete text of the Electronic Logging Devices and Hours of Service Supporting Documents (US Federal Motor Carrier Safety Administration Regulation) (FMCSA) (2018 Edition). Updated as of May 29, 2018 The Federal Motor Carrier Safety Administration (FMCSA) amends the Federal Motor Carrier Safety Regulations (FMCSRs) to establish: Minimum performance and design standards for hours-of-service (HOS) electronic logging devices (ELDs); requirements for the mandatory use of these devices by drivers currently required to prepare HOS records of duty status (RODS); requirements concerning HOS supporting documents; and measures to address concerns about harassment resulting from the mandatory use of ELDs. The requirements for ELDs will improve compliance with the HOS rules. This book contains: - The complete text of the Electronic Logging Devices and Hours of Service Supporting Documents (US Federal Motor Carrier Safety Administration Regulation) (FMCSA) (2018 Edition) - A table of contents with the page number of each section
Heterogeneous Computing with OpenCL 2.0 Springer
Science & Business Media

Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to Improving Diagnosis in Health Care, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. Improving Diagnosis in Health Care a continuation of the landmark Institute of Medicine reports To Err Is Human (2000) and Crossing the Quality Chasm (2001) finds that diagnosis-and, in particular, the occurrence of diagnostic errors "has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the

delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of Improving Diagnosis in Health Care contribute to the growing momentum for change in this crucial area of health care quality and safety. A User ' s GuideSpringer
This first volume in the Mosharaka for Research and Studies International Conference Proceedings series (P-MIC) contains peer-reviewed papers presented at the 1st International Congress on Engineering Technologies (EngiTek 2020). This event was held remotely on 16-18 June 2020, and hosted by the Faculty of Engineering, Jordan University of Science & Technology (Irbid, Jordan). The conference represented a major forum for professors, students, and professionals from all over the world to present their latest research results, and to exchange new ideas and practical experiences in the most cutting-edge areas of the field of engineering technologies. Topics covered include electrical engineering, computer science and electronics.