
Srl 2 Bluetooth Communication System

Wireless Information and Power Transfer

Rtfm

Exploring the Convergence of Big Data and the Internet of Things

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XV Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 2019

Revolutionizing Industrial Automation Through the Convergence of Artificial Intelligence and the Internet of Things

Search and Rescue Robotics

Futuristic Communication and Network Technologies

How to Fly a Horse

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Computer Organization and Design RISC-V Edition
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PRANAV CRANE

Wireless Information and Power Transfer Springer

The Red Team Field Manual (RTFM) is a no fluff, but thorough reference guide for serious Red Team members who routinely find themselves on a mission without Google or the time to scan through a man page. The RTFM contains the basic syntax for commonly used Linux and Windows command line tools, but it also encapsulates unique use cases for powerful tools such as Python and Windows PowerShell. The RTFM will repeatedly save you time looking up the hard to remember Windows nuances such as Windows wmic and dsquery command line tools, key

registry values, scheduled tasks syntax, startup locations and Windows scripting. More importantly, it should teach you some new red team techniques.

Rtfm Springer Nature

Wireless Mobile Communication and HealthcareSpringer
Exploring the Convergence of Big Data and the Internet of Things
Springer Science & Business Media

This book is open access under a CC BY 4.0 license. Technical Systems-of-Systems (SoS) - in the form of networked, independent constituent computing systems temporarily collaborating to achieve a well-defined objective - form the backbone of most of today's infrastructure. The energy grid, most transportation systems, the global banking industry, the water-supply system, the military equipment, many embedded

systems, and a great number more, strongly depend on systems-of-systems. The correct operation and continuous availability of these underlying systems-of-systems are fundamental for the functioning of our modern society. The 8 papers presented in this book document the main insights on Cyber-Physical System of Systems (CPSoSs) that were gained during the work in the FP7-610535 European Research Project AMADEOS (acronym for Architecture for Multi-criticality Agile Dependable Evolutionary Open System-of-Systems). It is the objective of this book to present, in a single consistent body, the foundational concepts and their relationships. These form a conceptual basis for the description and understanding of SoSs and go deeper in what we consider the characterizing and distinguishing elements of SoSs: time, emergence, evolution and dynamicity.

The Sourdough School Springer

This book constitutes the refereed post-conference proceedings of the Second IFIP International Cross-Domain Conference on Internet of Things, IFIP IoT 2021, held virtually in November 2021. The 15 full papers presented were carefully reviewed and selected from 33 submissions. Also included is a summary of two panel sessions held at the conference. The papers are organized in the following topical sections: challenges in IoT Applications and Research, Modernizing Agricultural Practice Using IoT, Cyber-physical IoT systems in Wildfire Context, IoT for Smart Health, Security, Methods.

Global Sources Telecom Products IGI Global

This book constitutes the proceedings of the First International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2015, held in Ohrid,

Republic of Macedonia, in September 2015. The 39 revised papers cover the broad areas of future wireless networks, ambient and assisted living, smart infrastructures and security and reflect the fast developing and vibrant penetration of IoT technologies in diverse areas of human live.

XV Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2019 Anchor

This book constitutes the refereed proceedings of the 4th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2003, held in Paris, France, in November 2003. The 21 revised full papers and 6 revised short papers presented were carefully reviewed and selected from a total of 88 submissions. The papers are organized in topical sections on adaptation and separation of concerns; deployment; security and transactions; replication; networking and routing; discovery, context-awareness, and ontologies; and asynchronous messaging.

Revolutionizing Industrial Automation Through the Convergence of Artificial Intelligence and the Internet of Things Springer Science & Business Media

We are living in a world full of innovations for the elderly and people with special needs to use smart assistive technologies and smart homes to more easily perform activities of daily living, to continue in social participation, to engage in entertainment and leisure activities, and to enjoy living independently. These innovations are inspired by new technologies leveraging all aspects of ambient and pervasive intelligence with related theories, technologies, methods, applications, and services on ubiquitous, pervasive, Aml, universal, mobile, embedded,

wearable, augmented, invisible, hidden, context-aware, calm, amorphous, sentient, proactive, post-PC, everyday, autonomic computing from the engineering, business and organizational perspectives. In the field of smart homes and health telematics, significant research is underway to enable aging and disabled people to use smart assistive technologies and smart homes to foster independent living and to offer them an enhanced quality of life. A smart home is a vision of the future where computers and computing devices will be available naturally and unobtrusively anywhere, anytime, and by different means in our daily living, working, learning, business, and infotainment environments. Such a vision opens tremendous opportunities for numerous novel services/applications that are more immersive, more intelligent, and more interactive in both real and cyber spaces.

Search and Rescue Robotics Springer Nature

Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of open-source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

Futuristic Communication and Network Technologies Wireless Mobile Communication and Healthcare

This book constitutes the refereed post-conference proceedings of the 6th International Conference on Mobile Communication and Healthcare, MobiHealth 2016, held in Milan, Italy, in November 2016. The 50 revised full papers were reviewed and selected from numerous submissions and are organized in topical sections covering: Technological development for m-health application user engagement.- IoT - Internet of Things.- Advances in soft wearable technology for mobile-health.- Emerging experiences into receiving and delivering healthcare through mobile and embedded solutions.- Advances in personalized healthcare services.- Mobile monitoring, and social media pervasive technologies.

How to Fly a Horse Springer

This book constitutes the refereed proceedings of the 16th EAI International Conference on Pervasive Computing Technologies for Healthcare, PervasiveHealth 2022, which took place in Thessaloniki, Greece, in December 2022. The 45 full papers included in this volume were carefully reviewed and selected from 120 submissions. The papers are organized in the following topical sections: personal informatics and wearable devices; computer vision; IoT-HR: Internet of things in health research; pervasive health for COVID-19; machine learning, human activity recognition and speech recognition; software frameworks and interoperability; facial recognition, gesture recognition and object detection; machine learning, predictive models and personalised healthcare; human-centred design of pervasive health solutions; personalized healthcare.

5th European Conference of the International Federation for Medical and Biological Engineering 14 - 18 September 2011, Budapest, Hungary Academic Press

This volume presents the 5th European Conference of the International Federation for Medical and Biological Engineering (EMBEC), held in Budapest, 14-18 September, 2011. The scientific discussion on the conference and in this conference proceedings include the following issues: - Signal & Image Processing - ICT - Clinical Engineering and Applications - Biomechanics and Fluid Biomechanics - Biomaterials and Tissue Repair - Innovations and Nanotechnology - Modeling and Simulation - Education and Professional

WIPO Technology Trends 2019 - Artificial Intelligence IGI Global
'Master the art of sourdough with Vanessa and you will learn how to look after your own gut microbes and health.' - Tim Spector, author of *The Diet Myth* At her renowned Sourdough School, Vanessa has taught countless students the secrets of this healthy, more easily digestible bread, and now she has compiled her teachings for the home baker. From creating your own starter from scratch, you'll then move on to basic breadmaking techniques, before progressing to using sprouted grains and experimenting with flavours to produce Fig and Earl Grey and Cherry Plum loaves. With step-by-step photography, detailed instructions, specialist advice and Vanessa's indispensable encouragement, The Sourdough School celebrates the timeless craft of artisan baking.

Improved Performance of Materials John Wiley & Sons

Until the late 1980s, information processing was associated with large mainframe computers and huge tape drives. During the

1990s, this trend shifted toward information processing with personal computers, or PCs. The trend toward miniaturization continues and in the future the majority of information processing systems will be small mobile computers, many of which will be embedded into larger products and interfaced to the physical environment. Hence, these kinds of systems are called embedded systems. Embedded systems together with their physical environment are called cyber-physical systems. Examples include systems such as transportation and fabrication equipment. It is expected that the total market volume of embedded systems will be significantly larger than that of traditional information processing systems such as PCs and mainframes. Embedded systems share a number of common characteristics. For example, they must be dependable, efficient, meet real-time constraints and require customized user interfaces (instead of generic keyboard and mouse interfaces). Therefore, it makes sense to consider common principles of embedded system design. Embedded System Design starts with an introduction into the area and a survey of specification models and languages for embedded and cyber-physical systems. It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems, like real-time operating systems. The book also discusses evaluation and validation techniques for embedded systems. Furthermore, the book presents an overview of techniques for mapping applications to execution platforms. Due to the importance of resource efficiency, the book also contains a selected set of optimization techniques for embedded systems, including special compilation techniques. The book

closes with a brief survey on testing. Embedded System Design can be used as a text book for courses on embedded systems and as a source which provides pointers to relevant material in the area for PhD students and teachers. It assumes a basic knowledge of information processing hardware and software. Courseware related to this book is available at <http://ls12-www.cs.tu-dortmund.de/~marwedel>.

Advances on P2P, Parallel, Grid, Cloud and Internet Computing
Springer Nature

This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.

Popular Science Hachette UK

This book offers a snapshot of recent developments in improving the properties and performance of engineering materials and structures. It discusses modeling properties related to classical

mechanical, thermal, electrical and optical fields as well as those related to surface-specific quantities (e.g. roughness, wear and modifications due to surface coatings). The material types presented range from classical metals and synthetic materials to composites. Competitiveness due to cost efficiency (e.g. lighter structures and the corresponding fuel savings for transportation systems) and sustainability (e.g. recyclability or reusability) are the driving factors for engineering developments. The outcomes of these efforts are difficult to be accurately monitored due to the ongoing evaluation cycles.

Bridge Safety, Maintenance, Management, Life-Cycle, Resilience and Sustainability Springer Science & Business Media

The six volumes LNCS 11619-11624 constitute the refereed proceedings of the 19th International Conference on Computational Science and Its Applications, ICCSA 2019, held in Saint Petersburg, Russia, in July 2019. The 64 full papers, 10 short papers and 259 workshop papers presented were carefully reviewed and selected from numerous submissions. The 64 full papers are organized in the following five general tracks: computational methods, algorithms and scientific applications; high performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies. The 259 workshop papers were presented at 33 workshops in various areas of computational sciences, ranging from computational science technologies to specific areas of computational sciences, such as software engineering, security, artificial intelligence and blockchain technologies.

Cognitive Wireless Networks Createspace Independent Publishing

Platform

The new RISC-V Edition of Computer Organization and Design features the RISC-V open source instruction set architecture, the first open source architecture designed to be used in modern computing environments such as cloud computing, mobile devices, and other embedded systems. With the post-PC era now upon us, Computer Organization and Design moves forward to explore this generational change with examples, exercises, and material highlighting the emergence of mobile computing and the Cloud. Updated content featuring tablet computers, Cloud infrastructure, and the x86 (cloud computing) and ARM (mobile computing devices) architectures is included. An online companion Web site provides advanced content for further study, appendices, glossary, references, and recommended reading. Features RISC-V, the first such architecture designed to be used in modern computing environments, such as cloud computing, mobile devices, and other embedded systems Includes relevant examples, exercises, and material highlighting the emergence of mobile computing and the cloud

Automotive Mechatronics: Operational and Practical Issues

Springer Science & Business Media

em style="mso-bidi-font-style: normal;"Wireless Information and Power Transfer offers an authoritative and comprehensive guide to the theory, models, techniques, implementation and application of wireless information and power transfer (WIPT) in energy-constrained wireless communication networks. With contributions from an international panel of experts, this important resource covers the various aspects of WIPT systems such as, system modeling, physical layer techniques, resource

allocation and performance analysis. The contributors also explore targeted research problems typically encountered when designing WIPT systems.

Satellite Communications and Navigation Systems WIPO

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.

Index Modulation for 5G Wireless Communications Morgan Kaufmann

With the development of innovative technologies, the study of industrial automation is obtaining extraordinary attention from academia, governments, researchers, and various industrial communities. The technical innovations in advanced technologies such as deep learning, blockchain, artificial intelligence of things (AIOT), and more have unlocked the potential for bringing intelligent automation and efficiency to the industries to control their various operations. These new technologies provide an efficient and secure way for industries to manage and develop products intelligently. Revolutionizing Industrial Automation Through the Convergence of Artificial Intelligence and the Internet of Things includes the recent advancements in exploring and developing AIOT-powered strategies and mechanisms for future industrial automation and transforming industrial functions and architectures to help improve various industrial operations. Covering topics such as convolutional neural networks, smart urban logistics, and industrial automation, this premier reference source is an excellent resource for computer scientists, IT

managers, engineers, business leaders and executives, logistics

managers, students and faculty of higher education, libraries, researchers, and academicians.

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