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KEY=7020 - ANTONIO DEANDRE

Exploring Zynq Mpsoc

With Pynq and Machine Learning Applications

This book introduces the Zynq MPSoC (Multi-Processor System-on-Chip), an embedded device from Xilinx. The Zynq MPSoC combines a sophisticated processing system that includes ARM Cortex-A53 applications and ARM Cortex-R5 real-time processors, with FPGA programmable logic. As well as guiding the reader through the architecture of the device, design tools and methods are also covered in detail: both the conventional hardware/software co-design approach, and the newer software-defined methodology using Xilinx's SDx development environment. Featured aspects of Zynq MPSoC design include hardware and software development, multiprocessing, safety, security and platform management, and system booting. There are also special features on PYNQ, the Python-based framework for Zynq devices, and machine learning applications. This book should serve as a useful guide for those working with Zynq MPSoC, and equally as a reference for technical managers wishing to gain familiarity with the device and its associated design methodologies.

The Zynq Book

Embedded Processing with the Arm Cortex-A9 on the Xilinx Zynq-7000 All Programmable Soc

This book is about the Zynq-7000 All Programmable System on Chip, the family of devices from Xilinx that combines an application-grade ARM Cortex-A9 processor with traditional FPGA logic fabric. Catering for both new and experienced readers, it covers fundamental issues in an accessible way, starting with a clear overview of the device architecture, and an introduction to the design tools and processes for developing a Zynq SoC. Later chapters progress to more advanced topics such as embedded systems development, IP block design and operating systems. Maintaining a 'real-world' perspective, the book also compares Zynq with other device alternatives, and considers end-user applications. The Zynq Book is accompanied by a set of practical tutorials hosted on a companion website. These tutorials will guide the reader through first steps with Zynq, following on to a complete, audio-based embedded systems design.

The Illustrated Guide to Assistive Technology & Devices Tools And Gadgets For Living Independently

Demos Medical Publishing A Doody's Core Title 2012 *This new illustrated guide to assistive technologies and devices chronicles the use of AT/AD - technology used by individuals with disabilities to perform functions that might otherwise be difficult or impossible. This book empowers people to use assistive technologies to overcome some of their physical or mental limitations and have a more equal playing field. It includes real-life examples about how people with disabilities are using assistive technology (AT) to assist them in daily tasks, and discusses emotional issues related to AT/AD.*

Handbook of Polyethylene Pipe

Plastics Pipe Institute Published by the Plastics Pipe Institute (PPI), the Handbook describes how polyethylene piping systems continue to provide utilities with a cost-effective solution to rehabilitate the underground infrastructure. The book will assist in designing and installing PE piping systems that can protect utilities and other end users from corrosion, earthquake damage and water loss due to leaky and corroded pipes and joints.

Bluetooth Security

Artech House This first-of-its-kind book, from expert authors actively contributing to the evolution of Bluetooth specifications, provides an overview and detailed descriptions of all the security functions and features of this standard's latest core release. After categorizing all the security issues involved in ad hoc networking, this hands-on volume shows you how to design a highly secure Bluetooth system and implement security enhancements. The book also helps you fully understand the main security risks involved with introducing Bluetooth-based communications in your organization

Broadband Communications, Networks, and Systems

9th International EAI Conference, Broadnets 2018, Faro, Portugal, September 19–20, 2018, Proceedings

Springer This book constitutes the refereed post-conference proceedings of the 9th International Conference on Broadband Communications, Networks, and Systems, Broadnets 2018, which took place in Faro, Portugal, in September 2018. The 30 revised full and 16 workshop papers were carefully reviewed and selected from 68 submissions. The papers are thematically grouped as follows: Advanced Techniques for IoT and WSNs; SDN and Network Virtualization; eHealth and Telemedicine Mobile Applications; Security and Privacy Preservation; Communication Reliability and Protocols; Spatial Modulation Techniques; Hardware Implementation and Antenna Design.

Insulation/circuits

Includes a special annual issue: Insulation/circuits directory/encyclopedia.

From GSM to LTE-Advanced Pro and 5G

An Introduction to Mobile Networks and Mobile Broadband

John Wiley & Sons A comparative introduction to major global wireless standards, technologies and their applications From GSM to LTE-Advanced Pro and 5G: An Introduction to Mobile Networks and Mobile Broadband, 3rd Edition provides technical descriptions of the various wireless technologies currently in use. It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology. This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years. The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation, mobility management, cell reselection and handover procedures, as well as the latest developments in 5G radio and core networks in 3GPP. It now features additional information on the TD-LTE air interface, IPv6 in mobile networks, Network Function Virtualization (NFV) and Narrowband Internet of Things (NB-IOT). Voice-over-LTE (VoLTE) is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process, dedicated bearer setup, header compression, speech codec and bandwidth negotiation, supplementary service configuration and VoLTE emergency calls. In addition, extensive coverage of Voice-over-Wifi and mission critical communication for public safety organizations over LTE has been added. The WLAN chapter now provides coverage of WPA2-Professional with certificates for authentication in large deployments, such as the global Eduroam network and the new WLAN 60 GHz air interface. Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy (BLE) in the chapter devoted to Bluetooth. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material.

The Telecommunications Handbook

Engineering Guidelines for Fixed, Mobile and Satellite Systems

John Wiley & Sons *THE TELECOMMUNICATIONS HANDBOOK THE TELECOMMUNICATIONS HANDBOOK ENGINEERING GUIDELINES FOR FIXED, MOBILE AND SATELLITE SYSTEMS* Taking a practical approach, *The Telecommunications Handbook* examines the principles and details of all the major and modern telecommunications systems currently available to industry and to end-users. It gives essential information about usage, architectures, functioning, planning, construction, measurements and optimization. The structure of the book is modular, giving both overall descriptions of the architectures and functionality of typical use cases, as well as deeper and practical guidelines for telecom professionals. The focus of the book is on current and future networks, and the most up-to-date functionalities of each network are described in sufficient detail for deployment purposes. The contents include an introduction to each technology, its evolution path, feasibility and utilization, solution and network architecture, and technical functioning of the systems (signaling, coding, different modes for channel delivery and security of core and radio system). The planning of the core and radio networks (system-specific field test measurement guidelines, hands-on network planning advices and suggestions for parameter adjustments) and future systems are also described. With contributions from specialists in both industry and academia, the book bridges the gap between communications in the academic context and the practical knowledge and skills needed to work in the telecommunications industry.

What Objects Mean, Second Edition

An Introduction to Material Culture

Routledge Arthur Asa Berger, author of an array of texts in communication, popular culture, and social theory, is back with the second edition of his popular, user-friendly guide for students who want to understand the social meanings of objects. In this broadly

interdisciplinary text, Berger takes the reader through half a dozen theoretical models that are commonly used to analyze objects. He then describes and analyzes eleven objects, many of them new to this edition—including smartphones, Facebook, hair dye, and the American flag—showing how they demonstrate concepts like globalization, identity, and nationalism. The book includes a series of exercises that allow students to analyse objects in their own environment. Brief and inexpensive, this introductory guide will be used in courses ranging from anthropology to art history, pop culture to psychology.

Big Data Processing Using Spark in Cloud

Springer *The book describes the emergence of big data technologies and the role of Spark in the entire big data stack. It compares Spark and Hadoop and identifies the shortcomings of Hadoop that have been overcome by Spark. The book mainly focuses on the in-depth architecture of Spark and our understanding of Spark RDDs and how RDD complements big data's immutable nature, and solves it with lazy evaluation, cacheable and type inference. It also addresses advanced topics in Spark, starting with the basics of Scala and the core Spark framework, and exploring Spark data frames, machine learning using Mllib, graph analytics using Graph X and real-time processing with Apache Kafka, AWS Kinesis, and Azure Event Hub. It then goes on to investigate Spark using PySpark and R. Focusing on the current big data stack, the book examines the interaction with current big data tools, with Spark being the core processing layer for all types of data. The book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud. In addition to industry professionals, it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments.*

Information Economy Report 2010

ICTs, Enterprises and Poverty Alleviation

United Nations *The Information Economy Report 2010: ICT, Enterprises and Poverty Alleviation is the fifth in the flagship series published by the United Nations Conference on Trade and Development (UNCTAD). As one of few annual reports that monitor global trends related to information and communication technologies (ICTs) from a development perspective, the Report is a valuable reference source for policymakers in developing countries. In the 2010 edition, special attention is given to the potential impact of ICTs in enterprises for reducing poverty and improving livelihoods. The evidence presented in this Report suggests that more attention*

should be given by policymakers and other stakeholders to opportunities in this area.

Consumer Action Handbook, 2010 Edition

GPO FCIC Use this guide to get help with consumer purchases, problems and complaints. Find consumer contacts at hundreds of companies and trade associations; local, state, and federal government agencies; national consumer organizations; and more.

Radar Instruction Manual

Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies. Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration's three region schools. It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardize up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook. This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation. Robert J. Blackwell Assistant Secretary for Maritime Affairs

Semi-annual Bulletin

Smart Spaces and Next Generation Wired/Wireless Networking

Third Conference on Smart Spaces, RuSMART 2010, and 10th International Conference, NEW2AN 2010, St. Petersburg, Russia, August 23-25, 2010, Proceedings

Springer Science & Business Media The LNCS series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R & D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. The type of material published traditionally includes proceedings (published in time for the respective conference) post-proceedings (consisting of thoroughly revised final full papers) research monographs (which may be based on outstanding PhD work, research projects, technical reports, etc.) More recently, several color-cover sublines have been added featuring, beyond a collection of papers, various added - value components; these sublines include tutorials (textbook - like monographs or collections of lectures given at advanced courses) state - of - the art surveys (offering complete and mediate coverage of a topic) hot topics (introducing emergent topics to the broader community) In parallel to the printed book, each new volume is published electronically in LNCS Online Book jacket.

Brand Immortality

How Brands Can Live Long and Prosper

Kogan Page Limited Explores the key marketing factors in brand health, and shows how brands need to adapt to prosper throughout their life. Shows how to manage strategy to ensure that a brand rides the category life-cycle waves and becomes immortal.

Introduction to Chinese Natural Language Processing

Morgan & Claypool Publishers *This book introduces Chinese language-processing issues and techniques to readers who already have a basic background in natural language processing (NLP). Since the major difference between Chinese and Western languages is at the word level, the book primarily focuses on Chinese morphological analysis and introduces the concept, structure, and interword semantics of Chinese words. The following topics are covered: a general introduction to Chinese NLP; Chinese characters, morphemes, and words and the characteristics of Chinese words that have to be considered in NLP applications; Chinese word segmentation; unknown word detection; word meaning and Chinese linguistic resources; interword semantics based on word collocation and NLP techniques for collocation extraction. Table of Contents: Introduction / Words in Chinese / Challenges in Chinese Morphological Processing / Chinese Word Segmentation / Unknown Word Identification / Word Meaning / Chinese Collocations / Automatic Chinese Collocation Extraction / Appendix / References / Author Biographies*

Collaborative Networks:Reference Modeling

Springer Science & Business Media *Collaborative Networks: Reference Modeling works to establish a theoretical foundation for Collaborative Networks. Particular emphasis is put on modeling multiple facets of collaborative networks and establishing a comprehensive modeling framework that captures and structures diverse perspectives of these complex entities. Further, this book introduces a contribution to the definition of reference models for Collaborative Networks. Collaborative Networks: Reference Modeling provides valuable elements for researchers, PhD students, engineers, managers, and leading practitioners interested in collaborative systems and networked society.*

Optimization and Decision Science: Methodologies and Applications

ODS, Sorrento, Italy, September 4-7, 2017

Springer This proceedings volume highlights the state-of-the-art knowledge related to optimization, decisions science and problem solving methods, as well as their application in industrial and territorial systems. It includes contributions tackling these themes using models and methods based on continuous and discrete optimization, network optimization, simulation and system dynamics, heuristics, metaheuristics, artificial intelligence, analytics, and also multiple-criteria decision making. The number and the increasing size of the problems arising in real life require mathematical models and solution methods adequate to their complexity. There has also been increasing research interest in Big Data and related challenges. These challenges can be recognized in many fields and systems which have a significant impact on our way of living: design, management and control of industrial production of goods and services; transportation planning and traffic management in urban and regional areas; energy production and exploitation; natural resources and environment protection; homeland security and critical infrastructure protection; development of advanced information and communication technologies. The chapters in this book examine how to deal with new and emerging practical problems arising in these different fields through the presented methodologies and their applications. The chapter topics are applicable for researchers and practitioners working in these areas, but also for the operations research community. The contributions were presented during the international conference “Optimization and Decision Science” (ODS2017), held at Hilton Sorrento Palace Conference Center, Sorrento, Italy, September 4 - 7, 2017. ODS 2017, was organized by AIRO, Italian Operations Research Society, in cooperation with DIETI (Department of Electrical Engineering and Information Technology) of University “Federico II” of Naples.

Optimization and Decision Science

ODS, Virtual Conference, November 19, 2020

Springer This book collects selected contributions from the international conference “Optimization and Decision Science” (ODS2020), which was held online on November 19, 2020, and organized by AIRO, the Italian Operations Research Society. The book offers new and original contributions on optimization, decisions science and prescriptive analytics from both a methodological and applied perspective, using models and methods based on continuous and discrete optimization, graph theory and network optimization, analytics, multiple criteria decision making, heuristics, metaheuristics, and exact methods. In addition to more theoretical

contributions, the book chapters describe models and methods for addressing a wide diversity of real-world applications, spanning health, transportation, logistics, public sector, manufacturing, and emergency management. Although the book is aimed primarily at researchers and PhD students in the Operations Research community, the interdisciplinary content makes it interesting for practitioners facing complex decision-making problems in the afore-mentioned areas, as well as for scholars and researchers from other disciplines, including artificial intelligence, computer sciences, economics, mathematics, and engineering.

Net Neutrality

Towards a Co-Regulatory Solution

A&C Black This book is available as open access through the Bloomsbury Open Access programme and is available on www.bloomsburycollections.com. Chris Marsden maneuvers through the hype articulated by Network Neutrality advocates and opponents. He offers a clear-headed analysis of the high stakes in this debate about the Internet's future, and fearlessly refutes the misinformation and misconceptions that about' Professor Rob Freiden, Penn State University Net Neutrality is a very heated and contested policy principle regarding access for content providers to the Internet end-user, and potential discrimination in that access where the end-user's ISP (or another ISP) blocks that access in part or whole. The suggestion has been that the problem can be resolved by either introducing greater competition, or closely policing conditions for vertically integrated service, such as VOIP. However, that is not the whole story, and ISPs as a whole have incentives to discriminate between content for matters such as network management of spam, to secure and maintain customer experience at current levels, and for economic benefit from new Quality of Service standards. This includes offering a 'priority lane' on the network for premium content types such as video and voice service. The author considers market developments and policy responses in Europe and the United States, draws conclusions and proposes regulatory recommendations.

Color and Colorimetry. Multidisciplinary Contributions

Speech Enhancement

Springer Science & Business Media A strong reference on the problem of signal and speech enhancement, describing the newest developments in this exciting field. The general emphasis is on noise reduction, because of the large number of applications that can benefit from this technology.

Cultural Strategy

Using Innovative Ideologies to Build Breakthrough Brands

Oxford University Press Market innovation has long been dominated by the worldview of engineers and economists--build a better mousetrap and the world will take notice. The most influential strategy books--such as *Competing for the Future*, *The Innovator's Dilemma*, and *Blue Ocean Strategy*--argue that innovation should focus on breakthrough functionality. Holt and Cameron challenge this conventional wisdom. They develop a cultural approach to innovation: champion a better ideology and the world will take notice. The authors use detailed historical analyses of the take-offs of Nike, vitaminwater, Marlboro, Starbucks, Jack Daniel's, Levi's, ESPN, and Ben & Jerry's to build a powerful new theory. They show how brands in mature categories come to rely upon similar conventional brand expressions, leading to what the authors call a cultural orthodoxy. Historical changes in society threaten this orthodoxy by creating demand for new culture. Cultural innovations draw upon source material--novel cultural content lurking in subcultures, social movements, and the media--to develop brands that respond to this emerging demand, leapfrogging entrenched incumbents. The authors demonstrate how they have adapted this theory into a step-by-step cultural strategy model, which they successfully applied to start-ups (Fat Tire beer), consumer technologies (Clearblue pregnancy tests), under-funded challengers (Fuse music television), and social enterprises (Freelancer's Union). Holt and Cameron conclude by explaining why top marketing companies fail at cultural innovation. Using careful organizational research, the authors demonstrate that companies are trapped in the brand bureaucracy, which systematically derails innovation. Cultural innovation requires a new organizational logic. In all of their cases, the authors find that the cultural innovators have rejected the brand bureaucracy. Written by one of the leading authorities on brands and marketing

in the world today, Cultural Strategy transforms what has always been treated as the "intuitive" side of branding into a systematic strategic discipline.

The Dawn in Germany?

The Lichnowsky and Other Disclosures

A Cultural History of Madrid

Modernism and the Urban Spectacle

Bloomsbury Publishing Despite its international significance, Madrid has been almost entirely ignored by urban, literary and cultural studies published in English. A Cultural History of Madrid: Modernism and the Urban Spectacle corrects that oversight by presenting an urban and cultural history of the city from the turn of the century to the early 1930s. Between 1900 and 1930, Madrid's population doubled to almost one million, with less than half the population being indigenous to the city itself. Far from the Castilian capital it was made out to be, Madrid was fast becoming a socially magnetic, increasingly secular and cosmopolitan metropolis. Parsons explores the interface between elite, mass and popular culture in Madrid while considering the construction of a modern madrileño identity that developed alongside urban and social modernization. She emphasizes the interconnection of art and popular culture in the creation of a metropolitan personality and temperament. The book draws on literary, theatrical, cinematic and photographic texts, including the work of such figures as Ramón Mesonero Romanos, Benito Pérez Galdós, Pío Baroja, Ramón Gómez de la Serna, Ramón Valle-Inclán and Maruja Mallo. In addition, the author examines the development of new urban-based art forms and entertainments such as the zarzuela, music halls and cinema, and considers their interaction with more traditional cultural identities and activities. In arguing that traditional aspects of culture were incorporated into the everyday life of urban modernity, Parsons shows how the boundaries between high and low culture became increasingly blurred as a new identity influenced by modern consumerism emerged. She investigates the interaction of the geographical landscape of the city with its expression in both the popular imagination and in aesthetic representations, detailing and interrogating the new freedoms, desires and perspectives of the Madrid modernista.

System Level Design of Reconfigurable Systems-on-Chip

Springer Science & Business Media Describes in a consolidated way the results of a three-year research project, during which researchers from leading european industrial companies and research institutes have been working together. Contributors come from academia and industry, such companies as INTRACOM, VTT and Nokia being represented Proposes brand new approaches based on SystemC and OCAPI-XL that explicitly handle issues related to reconfiguration at the system level Introduces a design flow for designing reconfigurable systems-on-chip Provides a comprehensive introduction to reconfigurable hardware and existing reconfigurable technologies Presents examples on how reconfigurable hardware can be exploited for the development of complex systems Provides useful feedback from the application of the proposed design flow and system level design methods on different real life design cases

Intermediate Accounting

The 9th Symbol

Rose is a princess, a Cinder, and half-human. She is the last one born of her kind, and on her twenty-first birthday, she must enter the woods and travel to find her Prince, as her sisters did before her. ". . . And we will all dance at the Grand Ball," her sisters would always say. But the Human servants are keeping a secret that could prevent the Cinders from reaching their Happily Ever After....Hidden in Rose's dreams and vision are the answers of the past between Cinders and Humans, and she is quickly running out of time trying to solve their hidden messages. She knows the answer lies in her first clue--identifying an animal she has never seen before--that persistent vision of a furry white animal, holding a gold metal object and exclaiming, "Oh dear! Oh dear! I shall be too late!"

The Consumer Action Handbook

The Zynq Book Tutorials for Zybo and Zedboard

This book comprises a set of five tutorials, and provides a practical introduction to working with Zynq-7000 All Programmable System on Chip, the family of devices from Xilinx that combines an application-grade ARM Cortex-A9 processor with traditional FPGA logic fabric. It is a companion text for 'The Zynq Book' (ISBN-13: 978-0992978709). The tutorials target two popular Zynq development boards: the ZedBoard, and the lower cost Zybo. Working through, the reader will take first steps with the Vivado integrated development environment and Software Developers Kit (SDK), and be introduced to the methodology of developing embedded systems based on Zynq. Different methods of creating Intellectual Property (IP) cores are demonstrated, including the use of Vivado High Level Synthesis (HLS), and these IPs are later combined to form a complete audio-based embedded system. These tutorials are set at the introductory level, and are suitable for undergraduate / postgraduate teaching, as well as self-learning by researchers, professional engineers, and hobbyists. Example and support files can be downloaded from the book's companion website.

A Guide to the Automation Body of Knowledge

Isa "A Guide to the Automation Body of Knowledge" provides you with comprehensive information about all major topics in the broad field of automation. Edited by Vernon Trevathan with contributions from over thirty leading experts from all aspects of automation, this book defines the most important automation concepts and processes, while also describing the technical skills professionals require to implement them in today's industrial environment. Whether you are an engineer, manager, control systems integrator, student, or educator, you will turn to this book again and again as the ultimate source on what is encompassed by automation.

The Canadian Crusoes

A Tale of the Rice Lake Plains

New York : C.S. Francis

Study Guide, Volume II (Chapters 15-24) to accompany Intermediate Accounting

Wiley Each study guide chapter is comprised of a detailed chapter review, demonstration problems, true/false, multiple-choice, matching questions, and comprehensive exercises. Solutions to study guide questions are provided.

The Ultimate Scanner

Index Publishing Group, Incorporated *What's the Ultimate Scanner? A radio receiver with wires, dials, knobs, switches and meters that were never on the manufacturer's plans? A discipline that leads into the next generation of scanning? A way to have it all: to cover all the bands, all the channels and miss nothing but what you choose to exclude? A system that gives you total control over everything that comes out of your speaker? It's this book, which describes the emergence of the scanning hobby into the information and computing era, where automation adds fun, channels and functionality to radio monitoring.*

306 Circuits