

Netfpga Architecture And Hardware Description An Insight Of The Netfpga Platform By Diego Reforgiato

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Design and Implementation of MobilityFirst Router on the NetFPGA Platform

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31st International Conference, Braunschweig, Germany, April 9-12, 2018, Proceedings

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Software Defined Networks

7th EAI International Conference, INISCOM 2021, Hanoi, Vietnam, April 22-23, 2021, Proceedings

Wireless Sensor Networks

Context-Aware Systems and Applications, and Nature of Computation and Communication

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WHITEHEAD JOSIAH

IC3T 2015, Volume 1 Springer

Software Defined Networks discusses the historical networking environment that gave rise to SDN, as well as the latest advances in SDN technology. The book gives you the state of the art knowledge needed for successful deployment of an SDN, including: How to explain to the non-technical business decision makers in your organization the potential benefits, as well as the risks, in shifting parts of a network to the SDN model How to make intelligent decisions about when to integrate SDN technologies in a network How to decide if your organization should be developing its own SDN applications or looking to acquire these from an outside vendor How to accelerate the ability to develop your own SDN application, be it entirely novel or a more efficient approach to a long-standing problem Discusses the evolution of the switch platforms that enable SDN Addresses when to integrate SDN technologies in a network Provides an overview of sample SDN applications relevant to different industries Includes practical examples of how to write SDN applications

Testbeds and Research Infrastructure: Development of Networks and Communities

Springer

This book constitutes the refereed proceedings of the Second CCF Internet Conference of China, ICoC 2013, held in Zhangjiajie, China, in July 2013. The 24 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers address issues such as future Internet architecture, Internet routing, network security, network management, data center networks, green networks, wireless networks, P2P networks, mobile Internet and the Internet of Things.

SECOND INTERNATIONAL CONFERENCE, HCC 2016, COLOMBO, SRI LANKA, JANUARY 7-9, 2016, REVISED SELECTED PAPERS

Springer Nature

This book constitutes the proceedings of the 6th International ICST Conference, TridentCom 2010, held in Berlin, Germany, in May 2010. Out of more than 100 submitted contributions the Program Committee finally selected 15 full papers, 26 practices papers, and 22 posters. They focus on topics as Internet testbeds, future Internet research, wireless sensors, media and mobility, and monitoring in large scale testbeds.

Proceedings of the International Conference, ICTA 2016 Springer Nature

This volume contains the proceedings of the 4th International Workshop on Field-Programmable Logic and Applications (FPL '94), held in Prague, Czech Republic in September 1994. The growing importance of field-programmable devices is substantiated by the remarkably high number of 116 submissions for FPL '94; from them, the revised versions of 40 full papers and 24 high-quality poster presentations were accepted for inclusion in this volume. Among the topics treated are: testing, layout, synthesis tools, compilation research and CAD, trade-offs and experience, innovations and smart applications, FPGA-based computer architectures, high-level design, prototyping and ASIC emulators, commercial devices, new tools, CCMs and HW/SW co-design, modelers, educational experience, and novel architectures.

Advances in Computer Science and Information Technology Morgan Kaufmann

This volume contains the post-proceedings of the 9th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, MEMICS 2014, held in Telč, Czech Republic, in October 2014. The 13 thoroughly revised papers were carefully selected out of 28 submissions and are presented together with 4 invited papers. The topics covered by the papers include: algorithms, logic, and games; high performance computing; computer aided analysis, verification, and testing; hardware design and diagnostics; computer graphics and image processing; and artificial intelligence and natural language processing.

Security, Privacy, and Applied Cryptography Engineering Springer Nature

This book constitutes the proceedings of the 15th International Symposium on Applied Reconfigurable Computing, ARC 2019, held in Darmstadt, Germany, in April 2019. The 20 full papers and 7 short papers presented in this volume were carefully reviewed and selected from 52 submissions. In addition, the volume contains 1 invited paper. The papers were organized in topical sections named: Applications; partial reconfiguration and security; image/video processing; high-level synthesis; CGRAs and vector processing; architectures; design frameworks and methodology; convolutional neural networks.

Proceeding of CISC 2019 Springer

During the last three decades, reconfigurable logic has been growing steadily and can now be found in many different fields. Field programmable gate arrays (FPGAs) are one of the most famous architecture families of reconfigurable devices. FPGAs can be seen as arrays of logic units that can be reconfigured to realize any digital systems. Their high versatility has enabled designers to drastically reduce time to market, and made FPGAs suitable for prototyping or small production series in many branches of industrial products. In addition, and thanks to innovations at the architecture level, FPGAs are now conquering segments of mass markets such as mobile communications. Reconfigurable Logic: Architecture, Tools, and Applications offers a snapshot of the state of the art of reconfigurable logic systems. Covering a broad range of architectures, tools, and applications, this book: Explores classical FPGA architectures and their supporting tools Evaluates recent proposals related to FPGA architectures, including the use of network-on-chips (NoCs) Examines reconfigurable processors that merge concepts borrowed from the reconfigurable domain into processor design Exploits FPGAs for high-performance systems, efficient error correction codes, and high-bandwidth network routers with built-in security Expounds on emerging technologies to enhance FPGA architectures, improve routing structures, and create non-volatile configuration flip-flops Reconfigurable Logic: Architecture, Tools, and Applications reviews current trends in reconfigurable platforms, providing valuable insight into the future potential of reconfigurable systems.

OCCUPATIONAL OUTLOOK HANDBOOK

Elsevier

This book constitutes the refereed joint proceedings of four co-located international conferences, concertedly held in Miyazaki, Japan, in June 2010. The papers in this volume were selected based on their scores obtained from the independent reviewing processes at particular conferences, and their relevance to the idea of constructing hybrid solution to address the real-world challenges of IT. It provides a chance for academic and industry professionals to catch up on recent progress in the related areas. The 49 revised full papers presented were carefully reviewed and selected during two rounds of reviewing and improvement from more than 1000 initial submissions. The papers emanate from the four following international conferences: Information Security and Assurance (ISA 2010), Advanced Communication and Networking (ACN 2010), Advanced Science and Technology (AST 2010), and Ubiquitous Computing and Multimedia Applications (UCMA 2010). This volume focuses on various aspects of advance

9TH INTERNATIONAL DOCTORAL WORKSHOP, MEMICS 2014, TELČ, CZECH REPUBLIC, OCTOBER 17--19, 2014, REVISED SELECTED PAPERS

Springer Nature

The book is about all aspects of computing, communication, general sciences and educational research covered at the Second International Conference on Computer & Communication Technologies held during 24-26 July 2015 at Hyderabad. It hosted by CMR Technical Campus in association with Division - V (Education & Research) CSI, India. After a rigorous review only quality papers are selected and included in this book. The entire book is divided into three volumes. Three volumes cover a variety of topics which include medical imaging, networks, data mining, intelligent computing, software design, image processing, mobile computing, digital signals and speech processing, video surveillance and processing, web mining, wireless sensor networks, circuit analysis, fuzzy systems, antenna and communication systems, biomedical signal processing and applications, cloud computing, embedded systems applications and cyber security and digital forensic. The readers of these volumes will be highly benefited from the technical contents of the topics.

Design and Implementation of MobilityFirst Router on the NetFPGA Platform Springer Nature

The two-volume set LNCS 7289 and 7290 constitutes the refereed proceedings of the 11th International IFIP TC 6 Networking Conference held in Prague, Czech Republic, in May 2012. The 64 revised full papers presented were carefully reviewed and selected from a total of 225 submissions. The papers feature innovative research in the areas of network architecture, applications and services, next generation Internet, wireless and sensor networks, and network science. The first volume includes 32 papers and is organized in topical sections on content-centric networking, social networks, reliability and resilience, virtualization and cloud services, IP routing, network measurement, network mapping, and LISP and multi-domain routing.

Field-Programmable Gate Array Technology IGI Global

Software Defined Networks: A Comprehensive Approach, Second Edition provides in-depth coverage

of the technologies collectively known as Software Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications. In addition, the book emphasizes the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions. Since the first edition was published, the SDN market has matured, and is being gradually integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses

31st International Conference, Braunschweig, Germany, April 9–12, 2018, Proceedings Springer
This book constitutes the thoroughly refereed joint post proceedings of two international workshops, the 5th International Workshop on Data Privacy Management, DPM 2010, and the 3rd International Workshop on Autonomous and Spontaneous Security, SETOP 2010, collocated with the ESORICS 2010 symposium in Athens, Greece, in September 2010. The 9 revised full papers for DPM 2010 presented together with two keynote talks are accompanied by 7 revised full papers of SETOP 2010; all papers were carefully reviewed and selected for inclusion in the book. The DPM 2010 papers cover topics such as how to translate the high-level business goals into system-level privacy policies, administration of privacy-sensitive data, privacy data integration and engineering, privacy access control mechanisms, information-oriented security, and query execution on privacy-sensitive data for partial answers. The SETOP 2010 papers address several specific aspects of the previously cited topics, as for instance the automatic administration of security policies, secure P2P storage, RFID authentication, anonymity in reputation systems, etc.

15TH INTERNATIONAL SYMPOSIUM, ARC 2019, DARMSTADT, GERMANY, APRIL 9–11, 2019, PROCEEDINGS

Springer Science & Business Media

The NetFPGA platform enables students and researchers to build high-performance networking systems using Field Programmable Gate Array (FPGA) hardware. A new version of the NetFPGA platform has been developed and is available for use by the academic community. The NetFPGA platform has modular interfaces that enable development of complex hardware designs by integration of simple building blocks. FPGA logic is used to implement the core data processing functions while software running on an attached host computer or embedded cores within the device implement control functions. Reference designs and component libraries have been developed for the CS344 course at Stanford University and an open-source Verilog reference design is available for download from the project website.

Springer

This book constitutes the refereed proceedings of the 7th EAI International Conference on Industrial Networks and Intelligent Systems, INISCOM 2021, held in Hanoi, Vietnam, in April 2021. The 39 full papers were selected from XX submissions and are organized thematically in tracks on telecommunications systems and networks; hardware, software and application designs; information processing and data analysis; industrial networks and intelligent systems; security and privacy.

Software Defined Networks Logos Verlag Berlin GmbH

This book focuses on the principles of wireless sensor networks (WSNs), their applications, and their analysis tools, with meticulous attention paid to definitions and terminology. This book presents the adopted technologies and their manufacturers in detail, making WSNs tangible for the reader. In introductory computer networking books, chapter sequencing follows the bottom-up or top-down architecture of the 7-layer protocol. This book addresses subsequent steps in this process, both horizontally and vertically, thus fostering a clearer and deeper understanding through chapters that elaborate on WSN concepts and issues. With such depth, this book is intended for a wide audience; it is meant to be a helper and motivator for senior undergraduates, postgraduates, researchers, and practitioners. It lays out important concepts and WSN-related applications; uses appropriate literature to back research and practical issues; and focuses on new trends. Senior undergraduate students can use it to familiarize themselves with conceptual foundations and practical project implementations. For graduate students and researchers, test beds and simulators provide vital insights into analysis methods and tools for WSNs. Lastly, in addition to applications and deployment, practitioners will be able to learn more about WSN manufacturers and components within several platforms and test beds.

7TH EAI INTERNATIONAL CONFERENCE, INISCOM 2021, HANOI, VIETNAM, APRIL 22–23, 2021, PROCEEDINGS

Springer Science & Business Media

The new edition of this popular book has been transformed into a hands-on textbook, focusing on the principles of wireless sensor networks (WSNs), their applications, their protocols and standards, and their analysis and test tools; a meticulous care has been accorded to the definitions and terminology. To make WSNs felt and seen, the adopted technologies as well as their manufacturers are presented in detail. In introductory computer networking books, chapters sequencing follows the bottom up or top down architecture of the seven layers protocol. This book starts some steps later, with chapters ordered based on a topic's significance to the elaboration of wireless sensor networks (WSNs) concepts and issues. With such a depth, this book is intended for a wide audience, it is meant to be a helper and motivator, for both the senior undergraduates, postgraduates, researchers, and practitioners; concepts and WSNs related applications are laid out, research and practical issues are backed by appropriate literature, and new trends are put under focus. For senior undergraduate students, it familiarizes readers with conceptual foundations, applications, and practical project implementations. For graduate students and researchers, transport layer protocols and cross-layering protocols are presented and testbeds and simulators provide a must follow emphasis on the analysis methods and tools for WSNs. For practitioners, besides applications and deployment, the manufacturers and components of WSNs at several platforms and testbeds are fully explored.

WIRELESS SENSOR NETWORKS

LAP Lambert Academic Publishing

This book constitutes the refereed proceedings of the 12th Annual Conference on Advanced Computer Architecture, ACA 2018, held in Yingkou, China, in August 2018. The 17 revised full papers presented were carefully reviewed and selected from 80 submissions. The papers of this volume are organized in topical sections on: accelerators; new design explorations; towards efficient ML/AI; parallel computing system.

Context-Aware Systems and Applications, and Nature of Computation and Communication CRC Press

This volume constitutes the refereed proceedings of the 7th International Conference on Multimedia Communications, Services and Security, MCS2014, held in Krakow, Poland, in June 2014. The 21 full papers included in the volume were selected from numerous submissions. The papers cover ongoing research activities in the following topics: audiovisual systems, novel multimedia architectures, multimedia data fusion, acquisition of multimedia content, quality of experience management, watermarking technology and applications, content searching methods, interactive multimedia applications, cybercrime countermeasures, cryptography, biometry, as well as privacy protection solutions.

FPGA ... NetFPGA Architecture and Hardware Description An Insight of the NetFPGA Platform

Many different kinds of FPGAs exist, with different programming technologies, different architectures and different software. Field-Programmable Gate Array Technology describes the major FPGA architectures available today, covering the three programming technologies that are in use and the major architectures built on those programming technologies. The reader is introduced to concepts relevant to the entire field of FPGAs using popular devices as examples. Field-Programmable Gate Array Technology includes discussions of FPGA integrated circuit manufacturing, circuit design and logic design. It describes the way logic and interconnect are implemented in various kinds of FPGAs. It covers particular problems with design for FPGAs and future possibilities for new architectures and software. This book compares CAD for FPGAs with CAD for traditional gate arrays. It describes algorithms for placement, routing and optimization of FPGAs. Field-Programmable Gate Array Technology describes all aspects of FPGA design and development. For this reason, it covers a significant amount of material. Each section is clearly explained to readers who are assumed to have general technical expertise in digital design and design tools. Potential developers of FPGAs will benefit primarily from the FPGA architecture and software discussion. Electronics systems designers and ASIC users will find a background to different types of FPGAs and applications of their use.

13th International Conference, ICA3PP 2013, Vietri sul Mare, Italy, December 18–20, 2013, Proceedings, Part II Springer

This book constitutes the refereed proceedings of the 9th International Conference on Security, Privacy, and Applied Cryptography Engineering, SPACE 2019, held in Gandhinagar, India, in December 2019. The 12 full papers presented were carefully reviewed and selected from 24 submissions. This annual event is devoted to various aspects of security, privacy, applied cryptography, and cryptographic engineering. This is a very challenging field, requiring the expertise from diverse domains, ranging from mathematics to solid-state circuit design.

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