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ZE089C - JACK CURTIS

This book constitutes the proceedings of the 18th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2021, held virtually in July 2021. The 18 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 65 submissions. DIMVA serves as a premier forum for advancing the state of the art in intrusion detection, malware detection, and vulnerability assessment. Each year, DIMVA brings together international experts from academia, industry, and government to present and discuss novel research in these areas. Chapter "SPECULARIZER: Detecting Speculative Execution Attacks via Performance Tracing" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

This book constitutes the proceedings of the 22st International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation, SAMOS 2021, which took place in July 2022 in Samos, Greece. The 21 full papers presented in this volume were carefully reviewed and selected from 44 submissions. The papers are organized in topics as follows: High level synthesis; memory systems; processor architecture; embedded software systems and beyond; deep learning optimization; extra-functional property estimation; innovative architectures and tools for security; vative architectures and tools for security;

european research projects on digital systems, services, and platforms.

This book includes selected papers from the International Conference on Machine Learning and Information Processing (ICMLIP 2019), held at ISB&M School of Technology, Pune, Maharashtra, India, from December 27 to 28, 2019. It presents the latest developments and technical solutions in the areas of advanced computing and data sciences, covering machine learning, artificial intelligence, human–computer interaction, IoT, deep learning, image processing and pattern recognition, and signal and speech processing.

This book constitutes the thoroughly refereed post-conference proceedings of the

10th International Conference on High Performance Computing for Computational Science, VECPAR 2012, held in Kope, Japan, in July 2012. The 28 papers presented together with 7 invited talks were carefully selected during two rounds of reviewing and revision. The papers are organized in topical sections on CPU computing, applications, finite element method from various viewpoints, cloud and visualization performance, method and tools for advanced scientific computing, algorithms and data analysis, parallel iterative solvers on multi-core architectures.

Calculation is the main function of a computer. The central unit is responsible for executing the programs. The microprocessor is its integrated form. This component, since the announcement of its marketing in 1971, has not stopped breaking records in terms of computing power, price reduction and integration of functions (calculation of basic functions, storage with integrated controllers). It is present today in most electronic devices. Knowing its internal mechanisms and programming is essential for the electronics engineer and computer scientist to understand and master the operation of a computer and advanced concepts of programming. This first volume focuses more particularly on the first generations of microprocessors, that is to say those that handle integers in 4 and 8-bit formats. The first chapter presents the calculation function and reminds the memory function. The following is devoted to notions of calculation model and architecture. The concept of bus is then presented. Chapters 4 and 5 can then address the internal organization and operation of the microprocessor first in hardware and then software. The mechanism of the function call, conventional and interrupted, is more particularly detailed in a separate chapter. The book ends with a presentation of architectures of the first microcomputers for a historical perspective. The knowledge is presented in the most exhaustive way possible with examples drawn from current and old technologies that illustrate and make accessible the theoretical concepts. Each chapter ends if necessary with corrected exercises and a bibliography. The list of acronyms used and an index are at the end of the book.

A computer is a machine designed for manipulating data according to a list of instructions known as a programme. Computers are versatile. In fact, they are universal information- processing machines. Due to technological advancement, modern electronic computers are exponentially more capable than those of preceding generations. Today, computers are at the centre of thousands upon thousands of other inventions. They are the heartbeats of the modern world. Computers are everywhere- from kitchens to concrete mixers, from planes to pockets. They listen. They speak. They act. Never in world history has one invention had such an influence on humanity age, there would be no global awareness. Today computers are being used in every walk of life and this book is useful to anyone who wishes to learn computers. The First chapter traces the history of computers. The rest of the book covers fundamental aspects such hardware, software and other applications associated with computers.

This book highlights a collection of high--quality peer-reviewed research papers presented at the Sixth International Conference on Information System Design and Intelligent Applications (INDIA 2019), held at Lendi Institute of Engineering & Technolo-

gy, Vizianagaram, Andhra Pradesh, India, from 1 to 2 November 2019. It covers a wide range of topics in computer science and information technology, from wireless networks, social networks, wireless sensor networks, information and network security, to web security, Internet of Things, bioinformatics, geoinformatics and computer networks.

The two-volume set, LNCS 13325 and 13326, are conference proceedings that constitutes the refereed proceedings of the 10th International Conference on Distributed, Ambient and Pervasive Interactions, DAPI 2022, held as part of the 24th International Conference, HCI International 2022, which took place during June-July 2022. The conference was held virtually due to the COVID-19 pandemic. The 58 papers of DAPI 2022 are organized in topical sections named for each volume: Part I: User Experience and Interaction Design for Smart Ecosystems; Smart Cities, Smart Islands, and Intelligent Urban Living; Smart Artifacts in Smart Environments; and Opportunities and Challenges for the Near Future Smart Environments Part II: Smart Living in Pervasive IoT Ecosystems; Distributed, Ambient, and Pervasive Education and Learning; Distributed, Ambient, and Pervasive Well-being and Healthcare; and Smart Creativity and Art.

This book constitutes refereed proceedings of the Second International Conference on Smart Technologies, Systems and Applications, held in Quito, Ecuador, in December 2021. Due to the COVID-19 pandemic the conference was held in a hybrid format. The 29 full papers along with 1 short paper presented were carefully reviewed and selected from 104 submissions. The papers of this volume are organized in topical sections on smart technologies; smart systems; smart trends and applications.

The new ARM Edition of Computer Organization and Design features a subset of the ARMv8-A architecture, which is used to present the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies, and I/O. 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 ARM (mobile computing devices) and x86 (cloud computing) architectures is included. An online companion Web site provides links to a free version of the DS-5 Community Edition (a free professional quality tool chain developed by ARM), as well as additional advanced content for further study, appendices, glossary, references, and recommended reading. Covers parallelism in depth with examples and content highlighting parallel hardware and software topics Features the Intel Core i7, ARM Cortex-A53, and NVIDIA Fermi GPU as real-world examples throughout the book Adds a new concrete example, "Going Faster," to demonstrate how understanding hardware can inspire software optimizations that improve performance by 200X Discusses and highlights the "Eight Great Ideas" of computer architecture: Performance via Parallelism; Performance via Pipelining; Performance via Prediction; Design for Moore's Law; Hierarchy of Memories; Abstraction to Simplify Design; Make the Common Case Fast; and Dependability via Redundancy. Includes a full set of updated exercises

Step-by-step guide to assembly language for the 64-bit Itanium processors, with extensive examples Details of Explicitly Parallel Instruction Computing (EPIC): Instruction set, addressing, register stack engine, predication, I/O, procedure calls, floating--point operations, and more Learn how to comprehend and optimize open source, Intel, and HP-UX compiler output Understand the full power of 64-bit Itanium EPIC processors Itanium(R) Architecture for Programmers is a comprehensive introduction to the breakthrough capabilities of the new 64-bit Itanium architecture. Using standard command-line tools and extensive examples, the authors illuminate the Itanium design within the broader context of contemporary computer architecture via a step-by-step investigation of Itanium assembly language. Coverage includes: The potential of Explicitly Parallel Instruction Computing (EPIC) Itanium instruction formats and addressing modes Innovations such as the register stack engine (RSE) and extensive predication Procedure calls and procedure-calling mechanisms Floating-point operations I/O techniques, from simple debugging to the use of files Optimization of output from open source,

Intel, and HP-UX compilers An essential resource for both computing professionals and students of architecture or assembly language, Itanium Architecture for Programmers includes extensive printed and Web-based references, plus many numeric, essay, and programming exercises for each chapter.

This book constitutes the refereed conference proceedings of the 12th International Conference on Security and Privacy in Communications Networks, SecureComm 2016, held in Guangzhou, China, in October 2016. The 32 revised full papers and 18 poster papers were carefully reviewed and selected from 137 submissions. The papers are organized thematically starting with mobile and network security, followed by applied cryptography, web security and privacy, system security, hardware security. The volume also includes papers from the ATCS workshop and the poster session.

This book constitutes the proceedings of the 13th International Conference on Service-Oriented Computing, ICSOC 2015, held in Goa, India, in November 2015. The 23 full, 9 short, and 5 demo track papers

presented in this volume were carefully reviewed and selected from 132 submissions. The research track papers are organized in topical sections named: internet of services/things; data services and cloud platform management; cloud services management; service composition; business process management; cloud services; QoS and trust; service composition.

This book constitutes the proceedings of the 18th IFIP International Conference on Distributed Applications and Interoperable Systems, DAIS 2018, held in Madrid, Spain, in June 2018. The 10 papers presented together with 2 short papers in this volume were carefully reviewed and selected from 33 submissions. The papers are organized in topical sections on application domains, including stream processing, video dissemination, storage, privacy protection, and large-scale orchestration.

This technical dictionary defines the 2,500 most-used words in the embedded systems field, with over 4,500 entries and cross-references. Designed to serve both the technical and non-technical audience, this book defines advanced terms in two steps. The fi

Master every topic on Red Hat's new RHCSA™ and RHCE® exams. Assess your knowledge and focus your learning. Get the practical workplace knowledge you need! Start-to-finish RHCSA™ and RHCE® preparation from leading Linux system administrator, IT trainer, and certification expert Damian Tommasino! Master every RHCSA™ and RHCE® topic! Red Hat Enterprise Linux 6 local and network installation System services, runlevels, and bootup Disks, partitions, and file systems, including LUKS encryption Networking Package management User administration Logging, monitoring, and automation Kernel updates and tuning Security, including SELinux, firewalls, and policies Remote access, including SSH Apache, Squid, DNS, DHCP, NTP, and email NFS and Samba Client and network troubleshooting KVM virtualization Test your knowledge, build your confidence, and succeed! 22 hands-on RHCSA™ and RHCE® Labs, each with multiple real-world tasks Downloadable troubleshooting scripts Practical tutorials and real-world tips Exam tips Red Hat Enterprise Linux 6 Command Quick Reference Exclusive Red Hat exam prep advice and task lists Two full length lab-based practice exams Damian Tommasino (RHCE, RHCSA, MCSA, CCNA, CCENT, MCP, Security+, Network+, A+) is a Linux system administrator at TradeCard and CEO of Modular Learning Inc., an online IT training company. He blogs on Red Hat, Linux, and security at Security Nut (http://sec-nut.blogspot.com), and actively contributes to the popular IT exam certification forums at techexams.net.

This book is an introduction to the theory, practice, and implementation of the Lattice Boltzmann (LB) method, a powerful computational fluid dynamics method that is steadily gaining attention due to its simplicity, scalability, extensibility, and simple handling of complex geometries. The book contains chapters on the method's background, fundamental theory, advanced extensions, and implementation. To aid beginners, the most essential paragraphs in each chapter are highlighted, and the introductory chapters on various LB topics are front-loaded with special "in a nutshell" sections that condense the chapter's most important practical results. Together, these sections can be used to quickly get up and running with the method. Exercises are integrated throughout the text, and frequently asked questions about the method are dealt with in a special section at the beginning. In the book itself and through its web page, readers can find example codes showing how the LB method can be implemented efficiently on a variety of hardware platforms, including multi-core processors, clusters, and graphics processing units. Students and scientists learning and using the LB method will appreciate the wealth of clearly presented and structured information in this volume.

The FeT series – Fieldbus Systems and their Applications Conferences started in 1995 in Vienna, Austria. Since FeT'2001 in Nancy, France, the conference became an IFAC – International Federation of Automatic Control sponsored event. These proceedings focus on 13 sessions, covering, fieldbus based systems, services, protocols and profiles, system integration with heterogeneous networks, management, real-time, safety, dependability and security, distributed embedded systems, wireless networking for field applications, education and emerging trends. Two keynote speeches from experts outside Europe are featured. The first one entitled "Bandwidth Allocation Scheme in Fieldbuses" by Prof.

Seung Ho, Hanyang University, Korea. The second by, Prof. I.F. Akyildiz, Georgia Institute of Technology, USA, "Key Technologies for Wireless Networking in the Next Decade". Featuring 36 high quality papers from 13 countries Keynote speech reflecting the current interest of wireless communications for industrial applications FeT'2005 was supported by a International Program Committee of around 40 members from 15 countries, 6 from Europe

Battery technology is constantly changing, and the concepts and applications of these changes are rapidly becoming increasingly more important as more and more industries and individuals continue to make "greener" choices in their energy sources. As global dependence on fossil fuels slowly wanes, there is a heavier and heavier importance placed on cleaner power sources and methods for storing and transporting that power. Battery technology is a huge part of this global energy revolution. Potassium-ion batteries were first introduced to the world for energy storage in 2004, over two decades after the invention of lithium-ion batteries. Potassium-ion (or "K-ion") batteries have many advantages, in-

cluding low cost, long cycle life, high energy density, safety, and reliability. Potassium-ion batteries are the potential alternative to lithium-ion batteries, fueling a new direction of energy storage research in many applications and across industries. Potassium-ion Batteries: Materials and Applications explores the concepts, mechanisms, and applications of the next-generation energy technology of potassium-ion batteries. Also included is an in-depth overview of energy storage materials and electrolytes. This is the first book on this technology and serves as a reference guide for electrochemists, chemical engineers, students, research scholars, faculty, and R&D professionals who are working in electrochemistry, solid-state science, material science, ionics, power sources, and renewable energy storage fields.

This book constitutes the refereed post-conference proceedings of the IFIP WG 9.7 International Workshop on the History of Computing, HC 2018, Held at the 24th IFIP World Computer Congress, WCC 2018, in Poznań, Poland, in September 2018. The 16 revised full papers were carefully reviewed and selected from 20 submissions. They reflect academic approaches to histo-

ry along with the expertise of museum and other public history professionals as well as the experience of computingand information science practitioners. The papers are organized in the following sections: Eastern Europe, Poland, Soviet Union, Co-Com and Comecon; analog computing, and public history.

This volume is the official reference manual for GNU Bash, the standard GNU command-line interpreter.

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 com-

panion 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

This book addresses challenges and opportunities in the Energy-Water-Environment (EWE) nexus, with a particular focus on research and technology development requirements in harsh desert climates. Its chapters include selected contributions presented during the 1st international conference on sustainable Energy-Water-Environment nexus in desert climates (IC-SEWEN-19) held at the Qatar Environment and Energy Research Institute (QEERI) in Doha, Qatar in December 2019. This volume is comprised of three main chapters, each describing important case studies and progress on water, energy and environmental questions. A fourth chapter on policies and community outreach on these three areas is also included. This compila-

tion aims to bridge the gap between research and industry to address the socioeconomic impacts of the nexus imbalance as perceived by scientists, industrial partners, and policymakers. The content of this book is of particular importance to graduate students, researchers and decision makers interested in understanding water, energy and environmental challenges in arid areas. Re searchers in environmental and civil engineering, chemistry, hydrology and environmental science can also find unique in-situ observations of the current nexus imbalance in deserts climate to validate their investigations. It is also an invaluable guide for industry professionals working in water, energy, environment and food sectors to understand the rapidly evolving landscape of the EWE nexus in arid areas. The analyses, observations and lessons-learned summarized herein are applicable to other arid areas outside North Africa and the Arabian Peninsula as well, such as central Australia, the southwest of the United States and deserts in central Asia.

"This book was written as a lab guide to help individuals pass the RHCSA (EX200) and RHCE (EX300) exams"--Preface.

This book constitutes the refereed proceedings of the Third International Conference on Wireless Mobile Communication and Healthcare, MobiHealth 2012, and of the two workshops: Workshop on Advances in Personalized Healthcare Services, Wearable Mobile Monitoring, and Social Media Pervasive Technologies (APHS 2012), and Workshop on Advances in Wireless Physical Layer Communications for Emerging Healthcare Applications (IWAWPLC 2012), all held in Paris, France, in November 2012. The 39 revised full papers presented were carefully reviewed and selected from 66 submissions. The papers are organized in topical sections covering wearable, outdoor and home-based applications; remote diagnosis and patient management; data processing; sensor devices and systems; biomedical monitoring in relation to society and the environment; body area networks; telemedicine systems for disease-specific applications; data collection and management; papers from the invited session "Implants"; papers from the IWAWPLC and APHS workshops.

Quickly learn to program for microcontrollers and IoT devices without a lot of study and expense. MicroPython and con-

trollers that support it eliminate the need for programming in a C-like language, making the creation of IoT applications and devices easier and more accessible than ever. MicroPython for the Internet of Things is ideal for readers new to electronics and the world of IoT. Specific examples are provided covering a range of supported devices, sensors, and MicroPython boards such as Pycom's WiPy modules and MicroPython's pyboard. Never has programming for microcontrollers been easier. The book takes a practical and hands-on approach without a lot of detours into the depths of theory. The book: Shows a faster and easier way to program microcontrollers and IoT devices Teaches MicroPython, a variant of one of the most widely used scripting languages Is friendly and accessible to those new to electronics, with fun example projects What You'll Learn Program in MicroPython Understand sensors and basic electronics Develop your own IoT projects Build applications for popular boards such as WiPy and pyboard Load MicroPython on the ESP8266 and similar boards Interface with hardware breakout boards Connect hardware to software through MicroPython Explore the easy--

to-use Adafruit IO connecting your microcontroller to the cloud Who This Book Is For Anyone interested in building IoT solutions without the heavy burden of programming in C++ or C. The book also appeals to those wanting an easier way to work with hardware than is provided by the Arduino and the Raspberry Pi platforms.
Master PC installation, configuration, repair, maintenance, and networking and fully prepare for the CompTIA A+ 220-801 and 220-802 exams This unique tutorial and study guide teaches the fundamentals of computer desktop and laptop installation, configuration, maintenance, and networking with thorough instruction built on the CompTIA A+ 220-801 and 220-802 exam objectives. Learn all the skills you need to become a certified professional and customer-friendly technician using today's tools and technologies. Every chapter opens with focused learning objectives and lists the exam objectives covered in that chapter. To meet the learning objectives, each chapter includes detailed figures, helpful Tech Tips, explanations of key terms, step-by-step instruction, and complete coverage of every topic. At the end of every chapter are comprehensive

assessment tools, including a summary, review questions, labs, activities, and exam tips. Covers Both 2012 A+ Exams: A+ 220-801: • PC Hardware • Networking • Laptops • Printers • Operational Procedures A+ 220-802 • Operating Systems • Security • Mobile Devices • Troubleshooting Learn more quickly and thoroughly with all these study and review tools: Learning Objectives provide the goals for each chapter Practical Tech Tips give real--world PC repair knowledge Soft Skills information and activities in each chapter cover all the tools and skills you need to become a professional, customer-friendly technician in every category Review Questions, including true/false, multiple choice, matching, fill-in-the-blank, and open-ended questions, assess your knowledge of the learning objectives More than 125 Lab Exercises enable you to link theory to practical experience Key Terms identify exam words and phrases associated with each topic Detailed Glossary clearly defines every key term Critical Thinking Activities in every chapter take you beyond the facts to complete comprehension of topics Chapter Summary provides a recap of key concepts See Special Offer in Back of Book

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This book aims to synthesize different directions in knowledge studies into a unified theory of knowledge and knowledge processes. It explicates important relations between knowledge and information. It provides the readers with understanding of the essence and structure of knowledge, explicating operations and process that are based on knowledge and vital for society. The book also highlights how the theory of knowledge paves the way for more advanced design and utilization of computers and networks. Contents:IntroductionKnowledge Characteristics and TypologyKnowledge Evaluation and Validation in the Context of Epistemic StructuresKnowledge Structure and Functioning: Microlevel or Quantum Theory of KnowledgeKnowledge Structure and Functioning: Macrolevel or Theory of Average KnowledgeKnowledge Structure and Func-

tioning: Megalevel or Global Theory of KnowledgeKnowledge Production, Acquisition, Engineering, and ApplicationKnowledge, Data, and InformationConclusion Readership: Graduate students and researchers in artificial intelligence and knowledge management.

From time to time the International Journal of Fracture has presented matters thought to be of special interest to its readers. In previous special issues (December 1980 and April 1981), Dr H.W. Liu as Guest Editor presented a series of review papers dealing with fatigue processes and characteristics in metals and non-metals. Continuing this policy, which is consistent with our stated objectives, a second review dealing with time depen dence in the fracture process, including the effect of material inertia but essentially excluding very strong shock effects in solids, has been assembled under the generic term "dynamic fracture". We hope that the ensuing state-of-the-art review will yield an instructive and

timely product which readers will find useful. To assist us in presenting this subject, we have prevailed upon a well-known worker in dynamic fracture, Dr W.G. Knauss, Professor of Aeronautics and Applied Mechanics, California Institute of Technology to act as Guest Editor for this special double issue. On behalf of the editors and publisher, I wish to express our indebtedness to Professor Knauss and his invited authors for undertaking this special effort.

The International Conference on Computational Fluid Dynamics is held every two years and brings together physicists, mathematicians and engineers to review and share recent advances in mathematical and computational techniques for modeling fluid flow. The proceedings of the 2010 conference (ICCFD6) held in St Petersburg, Russia, contain a selection of refereed contributions and are meant to serve as a source of reference for all those interested in the state of the art in computational fluid dynamics.