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Design, User Experience, and Usability. Theory, Methods, Tools and Practice Data Privacy Management, Autonomous Spontaneous Security, and Security Assurance Engineering Secure Software and Systems Facing the Multicore-Challenge III Detecting Peripheral-based Attacks on the Host Memory Security, Privacy, and Applied Cryptography Engineering International Joint Conference SOCO'14-CISIS'14-ICEUTE'14 Applied Cryptography and Network Security Yearbook of International Organizations Information Security Economic Crisis, Quality of Work, and Social Integration Bosch Fuel Injection and Engine Management Web Information Systems Engineering - WISE 2012 Cyber Security The Ghost of One's Self Detection of Intrusions and Malware, and Vulnerability Assessment Fault-Tolerance Techniques for High-Performance Computing Types and Programming Languages Mergent Industrial Manual Information Security The Continuing Arms Race Essential PHP Security Network and System Security Android Malware The Veiled Suite IoT Penetration Testing Cookbook Local Communication Systems, LAN and PBX, II Malware Detection Advanced Computer and Communication Engineering Technology Applied Cryptography and Network Security Workshops Critical Infrastructure Security and Resilience Data and Applications Security and Privacy XXXV The Autocar From Database to Cyber Security Malware Forensics Field Guide for Windows Systems Guidance and Control International Conference on Communication, Computing and Electronics Systems Multimedia, Vernetzung und Software für die Lehre Advances in Computational Intelligence Systems Detection of Intrusions and Malware, and Vulnerability Assessment

Information Security Sep 05 2023 This book constitutes the refereed proceedings of the 18th International Conference on Information Security, ISC 2015, held in Trondheim, Norway, in September 2015. The 30 revised full papers presented were carefully reviewed and selected from 103 submissions. The papers cover a wide range of topics in the area of cryptography and cryptanalysis and are organized in the following topical sections: signatures; system and software security; block ciphers; protocols; network and cloud security; encryption and fundamentals; PUFs and implementation security; and key generation, biometrics and image security.

**Guidance and Control** Jun 09 2021

*Applied Cryptography and Network Security Workshops* Dec 16 2021 This book constitutes the proceedings of the satellite workshops held around the 18th International Conference on Applied Cryptography and Network Security, ACNS 2020, in Rome, Italy, in October 2020. The 31 papers presented in this volume were carefully reviewed and selected from 65 submissions. They stem from the following workshops: AIBlock 2020: Second International Workshop on Application Intelligence and Blockchain Security AIHWS 2020: First International Workshop on Artificial Intelligence in Hardware Security AIoTS 2020: Second International Workshop on Artificial Intelligence and Industrial Internet-of-Things Security Cloud S&P 2020: Second International Workshop on Cloud Security and Privacy SCI 2020: First International Workshop on Secure Cryptographic Implementation SecMT 2020: First International Workshop on Security in Mobile Technologies SiMLA 2020: Second International Workshop on Security in Machine Learning and its Applications

Critical Infrastructure Security and Resilience Nov 14 2021 This book presents the latest trends in attacks and protection methods of Critical Infrastructures. It describes original research models and applied solutions for protecting major emerging threats in Critical Infrastructures and their underlying networks. It presents a number of emerging endeavors, from newly adopted technical expertise in industrial security to efficient modeling and implementation of attacks and relevant security measures in industrial control systems; including advancements in hardware and services security, interdependency networks, risk analysis, and control systems security along with their underlying protocols. Novel attacks against Critical Infrastructures (CI) demand novel security solutions. Simply adding more of what is done already (e.g. more thorough risk assessments, more expensive Intrusion Prevention/Detection Systems, more efficient firewalls, etc.) is simply not enough against threats and attacks that seem to have evolved beyond modern analyses and protection methods. The knowledge presented here will help Critical Infrastructure authorities, security officers, Industrial Control Systems (ICS) personnel and relevant researchers to (i) get acquainted with advancements in the field, (ii) integrate security research into their industrial or research work, (iii) evolve current practices in modeling and analyzing Critical Infrastructures, and (iv) moderate potential crises and emergencies influencing or emerging from Critical Infrastructures.

**The Autocar** Sep 12 2021

**Malware Detection** Feb 15 2022 This book captures the state of the art research in the area of malicious code detection, prevention and mitigation. It contains cutting-edge behavior-based techniques to analyze and detect obfuscated malware. The book analyzes current trends in malware activity online, including botnets and malicious code for profit, and it proposes effective models for detection and prevention of attacks using. Furthermore, the book introduces novel techniques for creating services that protect their own integrity and safety, plus the data they manage.

*Android Malware* Jun 21 2022 Mobile devices, such as smart phones, have achieved computing and networking capabilities comparable to traditional personal computers. Their successful consumerization has also become a source of pain for adopting users and organizations. In particular, the widespread presence of information-stealing applications and other types of mobile malware raises substantial security and privacy concerns. Android Malware presents a systematic view on state-of-the-art mobile malware that targets the popular Android mobile platform. Covering key topics like the Android malware history, malware behavior and classification, as well as, possible defense techniques.

Engineering Secure Software and Systems Apr 12 2024 This book constitutes the refereed proceedings of the 10th International Symposium on Engineering Secure Software and Systems, ESSoS 2018, held in Paris, France, in June 2018. The 10 papers, consisting of 7 regular and 3 idea papers, were carefully reviewed and selected from 26 submissions. They focus on the construction of secure software, which is becoming an increasingly challenging task due to the complexity of modern applications, the growing sophistication of security requirements, the multitude of available software technologies, and the progress of attack vectors.

*Advances in Computational Intelligence Systems* Mar 07 2021 The book is a timely report on advanced methods and applications of computational intelligence systems. It covers a long list of interconnected research areas, such as fuzzy systems, neural networks, evolutionary computation, evolving systems and machine learning. The individual chapters are based on peer-reviewed contributions presented at the 17th Annual UK Workshop on Computational Intelligence, held on September 6-8, 2017, in Cardiff, UK. The book puts a special emphasis on novels methods and reports on their use in a wide range of applications areas, thus providing both academics and professionals with a comprehensive and timely overview of new trends in computational intelligence.

Data Privacy Management, Autonomous Spontaneous Security, and Security Assurance May 13 2024 This book constitutes the revised selected papers of the 9th International Workshop on Data Privacy Management, DPM 2014, the 7th International Workshop on Autonomous and Spontaneous Security, SETOP 2014, and the 3rd International Workshop on Quantitative Aspects in Security Assurance, held in Wroclaw, Poland, in September 2014, co-located with the 19th European Symposium on Research in Computer Security (ESORICS 2014). The volume contains 7 full and 4 short papers plus 1 keynote talk from the DPM workshop; 2 full papers and 1 keynote talk from the SETOP workshop; and 7 full papers and 1 keynote talk from the QASA workshop - selected out of 52 submissions. The papers are organized in topical sections on data privacy management; autonomous and spontaneous security; and quantitative aspects in security assurance.

**Detection of Intrusions and Malware, and Vulnerability Assessment** Feb 27 2023 This book constitutes the refereed proceedings of the 14th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2017, held in Bonn, Germany, in July 2017. The 18 revised full papers included in this book were carefully reviewed and selected from 67 submissions. They present topics such as enclaves and isolation; malware analysis; cyber-physical systems; detection and protection; code analysis; and web security.

**Cyber Security** May 01 2023
**Information Security** Oct 26 2022 This book constitutes the proceedings of the 25th International Conference on Information Security, ISC 2022, which took place in Bali, Indonesia, in December 2022. The 21 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 72 submissions. The contributions were organized in topical sections as follows: Cryptography; Post-Quantum Cryptography; Cryptanalysis; Blockchain; Email and Web Security; Malware; and AI Security.
**Security, Privacy, and Applied Cryptography Engineering** Jan 09 2024 This book constitutes the refereed proceedings of the 5th International Conference on Security, Privacy, and Applied Cryptography Engineering, SPACE 2015, held in Jaipur, India, in October 2015. The 17 full papers presented in this volume were carefully reviewed and selected from 57 submissions. The book also contains 4 invited talks in full-paper length. The papers are devoted to various aspects of security, privacy, applied cryptography, and cryptographic engineering.
**IoT Penetration Testing Cookbook** Apr 19 2022 Over 80 recipes to master IoT security techniques. About This Book Identify vulnerabilities in IoT device architectures and firmware using software and hardware pentesting techniques Understand radio communication analysis with concepts such as sniffing the air and capturing radio signals A recipe based guide that will teach you to pentest new and unique set of IoT devices. Who This Book Is For This book targets IoT developers, IoT enthusiasts, pentesters, and security professionals who are interested in learning about IoT security. Prior knowledge of basic pentesting would be beneficial. What You Will Learn Set up an IoT pentesting lab Explore various threat modeling concepts Exhibit the ability to analyze and exploit firmware vulnerabilities Demonstrate the automation of application binary analysis for iOS and Android using MobSF Set up a Burp Suite and use it for web app testing Identify UART and JTAG pinouts, solder headers, and hardware debugging Get solutions to common wireless protocols Explore the mobile security and firmware best practices Master various advanced IoT exploitation techniques and security automation In Detail IoT is an upcoming trend in the IT industry today; there are a lot of IoT devices on the market, but there is a minimal understanding of how to safeguard them. If you are a security enthusiast or pentester, this book will help you understand how to exploit and secure IoT devices. This book follows a recipe-based approach, giving you practical experience in securing upcoming smart devices. It starts with practical recipes on how to analyze IoT device architectures and identify vulnerabilities. Then, it focuses on enhancing your pentesting skill set, teaching you how to exploit a vulnerable IoT device, along with identifying vulnerabilities in IoT device firmware. Next, this book teaches you how to secure embedded devices and exploit smart devices with hardware techniques. Moving forward, this book reveals advanced hardware pentesting techniques, along with software-defined, radio-based IoT pentesting with Zigbee and Z-Wave. Finally, this book also covers how to use new and unique pentesting techniques for different IoT devices, along with smart devices connected to the cloud. By the end of this book, you will have a fair understanding of how to use different pentesting techniques to exploit and secure various IoT devices. Style and approach This recipe-based book will teach you how to use advanced IoT exploitation and security automation.
**The Continuing Arms Race** Sep 24 2022 As human activities moved to the digital domain, so did all the well-known malicious behaviors including fraud, theft, and other trickery. There is no silver bullet, and each security threat calls for a specific answer. One specific threat is that applications accept malformed inputs, and in many cases it is possible to craft inputs that let an intruder take full control over the target computer system. The nature of systems programming languages lies at the heart of the problem. Rather than rewriting decades of well-tested functionality, this book examines ways to live with the (programming) sins of the past while shoring up security in the most efficient manner possible. We explore a range of different options, each making significant progress towards securing legacy programs from malicious inputs. The solutions explored include enforcement-type defenses, which excludes certain program executions because they never arise during normal operation. Another strand explores the idea of presenting adversaries with a moving target that unpredictably changes its attack surface thanks to randomization. We also cover tandem execution ideas where the compromise of one executing clone causes it to diverge from another thus revealing adversarial activities. The main purpose of this book is to provide readers with some of the most influential works on run-time exploits and defenses. We hope that the material in this book will inspire readers and generate new ideas and paradigms.
**The Veiled Suite** May 21 2022 Beginning with the impassioned, never-before-published title poem, here is the life's work of a beloved Kashmiri-American poet. Agha Shahid Ali died in 2001, mourned by myriad lovers of poetry and devoted students. This volume, his shining legacy, moves from playful early poems to themes of mourning and loss, culminating in the ghazals of Call Me Ishmael Tonight. The title poem appears in print for the first time. from "The Veiled Suite" I wait for him to look straight into my eyes This is our only chance for magnificence. If he, carefully, upon this hour of ice, will let us almost completely crystallize, tell me, who but I could chill his dreaming night. Where he turns, what will not appear but my eyes? Wherever he looks, the sky is only eyes. Whatever news he has, it is of the sea.
**Web Information Systems Engineering - WISE 2012** Jun 02 2023 This book constitutes the proceedings of the 13th International Conference on Web Information Systems Engineering, WISE 2012, held in Paphos, Cyprus, in November 2012. The 44 full papers, 13 short papers, 9 demonstrations papers and 9 “challenge” papers were carefully reviewed and selected from 194 submissions. The papers cover various topics in the field of Web Information Systems Engineering.
Types and Programming Languages Dec 28 2022 A comprehensive introduction to type systems and programming languages. A type system is a syntactic method for automatically checking the absence of certain erroneous behaviors by classifying program phrases according to the kinds of values they compute. The study of type systems—and of programming languages from a type-theoretic perspective—has important applications in software engineering, language design, high-performance compilers, and security. This text provides a comprehensive introduction both to type systems in computer science and to the basic theory of programming languages. The approach is pragmatic and operational; each new concept is motivated by programming examples and the more theoretical sections are driven by the needs of implementations. Each chapter is accompanied by numerous exercises and solutions, as well as a running implementation, available via the Web. Dependencies between chapters are explicitly identified, allowing readers to choose a variety of paths through the material. The core topics include the untyped lambda-calculus, simple type systems, type reconstruction, universal and existential polymorphism, subtyping, bounded quantification, recursive types, kinds, and type operators. Extended case studies develop a variety of approaches to modeling the features of object-oriented languages.
Fault-Tolerance Techniques for High-Performance Computing Jan 29 2023 This timely text presents a comprehensive overview of fault tolerance techniques for high-performance computing (HPC). The text opens with a detailed introduction to the concepts of checkpoint protocols and scheduling algorithms, prediction, replication, silent error detection and correction, together with some application-specific techniques such as ABFT. Emphasis is placed on analytical performance models. This is then followed by a review of general-purpose techniques, including several checkpoint and rollback recovery protocols. Relevant execution scenarios are also evaluated and compared through quantitative models. Features: provides a survey of resilience methods and performance models; examines the various sources for errors and faults in large-scale systems; reviews the spectrum of techniques that can be applied to design a fault-tolerant MPI; investigates different approaches to replication; discusses the challenge of energy consumption of fault-tolerance methods in extreme-scale systems.
Detecting Peripheral-based Attacks on the Host Memory Feb 10 2024 This work addresses stealthy peripheral-based attacks on host computers and presents a new approach to detecting them. Peripherals can be regarded as separate systems that have a dedicated processor and dedicated runtime memory to handle their tasks. The book addresses the problem that peripherals generally communicate with the host via the host’s main memory, storing cryptographic keys, passwords, opened files and other sensitive data in the process – an aspect attackers are quick to exploit. Here, stealthy malicious software based on isolated micro-controllers is implemented to conduct an attack analysis, the results of which provide the basis for developing a novel runtime detector. The detector reveals stealthy peripheral-based attacks on the host’s main memory by exploiting certain hardware properties, while a permanent and resource-efficient measurement strategy ensures that the detector is also capable of detecting transient attacks, which can otherwise succeed when the applied strategy only measures intermittently. Attackers exploit this strategy by attacking the system in between two measurements and erasing all traces of the attack before the system is measured again.
**Design, User Experience, and Usability. Theory, Methods, Tools and Practice** Jun 14 2024 The two-volume set LNCS 6769 + LNCS 6770 constitutes the proceedings of the First International Conference on Design, User

Experience, and Usability, DUXU 2011, held in Orlando, FL, USA in July 2011 in the framework of the 14th International Conference on Human-Computer Interaction, HCII 2011, incorporating 12 thematically similar conferences. A total of 4039 contributions was submitted to HCII 2011, of which 1318 papers were accepted for publication. The total of 154 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on DUXU theory, methods and tools; DUXU guidelines and standards; novel DUXU: devices and their user interfaces; DUXU in industry; DUXU in the mobile and vehicle context; DXU in Web environment; DUXU and ubiquitous interaction/appearance; DUXU in the development and usage lifecycle; DUXU evaluation; and DUXU beyond usability: culture, branding, and emotions.

Detection of Intrusions and Malware, and Vulnerability Assessment Feb 03 2021 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.

*Yearbook of International Organizations* Oct 06 2023

**Bosch Fuel Injection and Engine Management** Jul 03 2023 This Bosch Bible fully explains the theory, troubleshooting, and service of all Bosch systems from D-Jetronic through the latest Motronics. Includes high-performance tuning secrets and information on the newest KE- and LH-Motronic systems not available from any other source.

**Advanced Computer and Communication Engineering Technology** Jan 17 2022 This book covers diverse aspects of advanced computer and communication engineering, focusing specifically on industrial and manufacturing theory and applications of electronics, communications, computing and information technology. Experts in research, industry, and academia present the latest developments in technology, describe applications involving cutting-edge communication and computer systems, and explore likely future trends. In addition, a wealth of new algorithms that assist in solving computer and communication engineering problems are presented. The book is based on presentations given at ICOCOE 2015, the 2nd International Conference on Communication and Computer Engineering. It will appeal to a wide range of professionals in the field, including telecommunication engineers, computer engineers and scientists, researchers, academics and students.

**Applied Cryptography and Network Security** Nov 07 2023 This book constitutes the refereed proceedings of the 10th International Conference on Applied Cryptography and Network Security, ACNS 2012, held in Singapore, in June 2012. The 33 revised full papers included in this volume were carefully reviewed and selected from 192 submissions. They are organized in topical sessions on authentication, key management, block ciphers, identity-based cryptography, cryptographic primitives, cryptanalysis, side channel attacks, network security, Web security, security and privacy in social networks, security and privacy in RFID systems, security and privacy in cloud systems, and security and privacy in smart grids.

**Economic Crisis, Quality of Work, and Social Integration** Aug 04 2023 This book provides a comparative analysis of the impact of the economic crisis on the quality of work and work-life balance.

International Joint Conference SOCO'14-CISIS'14-ICEUTE'14 Dec 08 2023 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2014, CISIS 2014 and ICEUTE 2014, all conferences held in the beautiful and historic city of Bilbao (Spain), in June 2014. Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. After a through peer-review process, the 9th SOCO 2014 International Program Committee selected 31 papers which are published in these conference proceedings. In this relevant edition a special emphasis was put on the organization of special sessions. One special session was organized related to relevant topics as: Soft Computing Methods in Manufacturing and Management Systems. The aim of the 7th CISIS 2014 conference is to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of Computational Intelligence, Information Security, and Data Mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and the aggregation stimulus for the overall event. After a through peer-review process, the CISIS 2014 International Program Committee selected 23 papers and the 5th ICEUTE 2014 International Program Committee selected 2 papers which are published in these conference proceedings as well.

**Local Communication Systems, LAN and PBX, II** Mar 19 2022 Both theoretical and practical papers are compiled in this proceedings volume, presenting an expansive forum of ideas from experts from a variety of fields and backgrounds. Key words of the volume include: DQDB, ATM, LAN-ISDN internetworking, IS-PBX. Contributing authors address the question Which LAN and PBX in 1995?, inviting readers to an authoritative view of the future in this discipline.

**Multimedia, Vernetzung und Software für die Lehre** Apr 07 2021 Der Tagungsband zum 5. CIP-Kongre~ dokumentiert den Status quo des PC-Einsatzes in vielen bedeutenden F{chern der Hochschullehre und zeigt neueTrends auf. Der st{rkste innovative Schub bei der Lehrsoftware geht zur Zeitvom Bereich Multimedia aus. Die Weiterentwicklung der Rechnerpools und der Rechnervernetzung an den Hochschulen ist dadurch bestimmt, da~ sich die CIP-Pools mittlerweile zu reinen Institutspools entwickeln und durch den Zuwachs an studenteneigenen PCs an Vernetzung und Softwarelizensierung sowie die Rechnerfinanzierung neue Anforderungen gestellt werden, damit der Student am h{uslichen Arbeitsplatzrechner ann{hernd die gleichen Arbeitsbedingungen vorfindet wie in der Hochschule und sp{ter im Beruf. Die flankierenden Unterst}tzungsdienste des Vereins Deutsches Forschungsnetz (DFN) und der Akademischen Software Kooperation Karlsruhe (ASK) werden ausf}hrlich beschrieben. Schwerpunkte zum Thema "Software in der Lehre" liegen in den Bereichen Ingenieur-, Natur- und Wirtschaftswissenschaften. Dem interessierten Dozenten aus Hochschule und Industrie gibt der Band eine F}lle von Anregungen f}r die Nutzanwendung von PCs in der Lehre, wobei der interdisziplin{re Wissenstransfer durch zahlreiche Illustrationen erleichtert wird. Wer heute PCs in der Lehre einsetzt oder dies plant, sollte den gesammelten Erfahrungsschatz nutzen, den dieser und die }brigen B{nde der Reihe bieten

*Network and System Security* Jul 23 2022 This book constitutes the proceedings of the 7th International Conference on Network and System Security, NSS 2013, held in Madrid, Spain, in June 2013. The 41 full papers presented were carefully reviewed and selected from 176 submissions. The volume also includes 7 short papers and 13 industrial track papers. The paper are organized in topical sections on network security (including: modeling and evaluation; security protocols and practice; network attacks and defense) and system security (including: malware and intrusions; applications security; security algorithms and systems; cryptographic algorithms; privacy; key agreement and distribution).

*Malware Forensics Field Guide for Windows Systems* Jul 11 2021 Malware Forensics Field Guide for Windows Systems is a handy reference that shows students the essential tools needed to do computer forensics analysis at the crime scene. It is part of Syngress Digital Forensics Field Guides, a series of companions for any digital and computer forensic student, investigator or analyst. Each Guide is a toolkit, with checklists for specific tasks, case studies of difficult situations, and expert analyst tips that will aid in recovering data from digital media that will be used in criminal prosecution. This book collects data from all methods of electronic data storage and transfer devices, including computers, laptops, PDAs and the images, spreadsheets and other types of files stored on these devices. It is specific for Windows-based systems, the largest running OS in the world. The authors are world-renowned leaders in investigating and analyzing malicious code. Chapters cover malware incident response - volatile data collection and examination on a live Windows system; analysis of physical and process memory dumps for malware artifacts; post-mortem forensics - discovering and extracting malware and associated artifacts from Windows systems; legal considerations; file identification and profiling initial analysis of a suspect file on a Windows system; and analysis of a suspect program. This field guide is intended for computer forensic investigators, analysts, and specialists. A condensed hand-held guide complete with on-the-job tasks and checklists Specific for Windows-based systems, the largest running OS in the world Authors are world-renowned leaders in investigating and analyzing malicious code

**The Ghost of One's Self** Mar 31 2023 For millennia people have held folk beliefs about the existence of the doppelganger--"double walker" in German--a look-alike second self that is often the antithesis of one's identity and is usually considered an omen of misfortune or death. The theme of the double has inspired works by E.T.A. Hoffmann, Poe, de Maupassant, Dostoevsky and others, and has been the basis for many classic mystery, horror and science

fiction movies. This critical survey examines the double in more than 100 films by such acclaimed directors as Alfred Hitchcock, Mario Bava, Roger Corman, David Cronenberg, George Romero, Fritz Lang, James Cameron, Robert Siodmak, Don Siegel, John Frankenheimer, Terry Gilliam, Brian De Palma and Roman Polanski.

**International Conference on Communication, Computing and Electronics Systems** May 09 2021 This book includes high impact papers presented at the International Conference on Communication, Computing and Electronics Systems 2019, held at the PPG Institute of Technology, Coimbatore, India, on 15-16 November, 2019. Discussing recent trends in cloud computing, mobile computing, and advancements of electronics systems, the book covers topics such as automation, VLSI, embedded systems, integrated device technology, satellite communication, optical communication, RF communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, Internet of Things, precision models, bioinformatics, and healthcare informatics.

Facing the Multicore-Challenge III Mar 11 2024 This state-of-the-art survey features topics related to the impact of multicore, manycore, and coprocessor technologies in science and large-scale applications in an interdisciplinary environment. The papers included in this survey cover research in mathematical modeling, design of parallel algorithms, aspects of microprocessor architecture, parallel programming languages, hardware-aware computing, heterogeneous platforms, manycore technologies, performance tuning, and requirements for large-scale applications. The contributions presented in this volume are an outcome of an inspiring conference conceived and organized by the editors at the University of Applied Sciences (HfT) in Stuttgart, Germany, in September 2012. The 10 revised full papers selected from 21 submissions are presented together with the twelve poster abstracts and focus on combination of new aspects of microprocessor technologies, parallel applications, numerical simulation, and software development; thus they clearly show the potential of emerging technologies in the area of multicore and manycore processors that are paving the way towards personal supercomputing and very likely towards exascale computing.

Data and Applications Security and Privacy XXXV Oct 14 2021 This book constitutes the refereed proceedings of the 35th Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy, DBSec 2021, held in Calgary, Canada, in July 2021.* The 15 full papers and 8 short papers presented were carefully reviewed and selected from 45 submissions. The papers present high-quality original research from academia, industry, and government on theoretical and practical aspects of information security. They are organized in topical sections named differential privacy, cryptology, machine learning, access control and others. *The conference was held virtually due to the COVID-19 pandemic.

*Essential PHP Security* Aug 24 2022 Being highly flexible in building dynamic, database-driven web applications makes the PHP programming language one of the most popular web development tools in use today. It also works beautifully with other open source tools, such as the MySQL database and the Apache web server. However, as more web sites are developed in PHP, they become targets for malicious attackers, and developers need to prepare for the attacks. Security is an issue that demands attention, given the growing frequency of attacks on web sites. Essential PHP Security explains the most common types of attacks and how to write code that isn't susceptible to them. By examining specific attacks and the techniques used to protect against them, you will have a deeper understanding and appreciation of the safeguards you are about to learn in this book. In the much-needed (and highly-requested) Essential PHP Security, each chapter covers an aspect of a web application (such as form processing, database programming, session management, and authentication). Chapters describe potential attacks with examples and then explain techniques to help you prevent those attacks. Topics covered include: Preventing cross-site scripting (XSS) vulnerabilities Protecting against SQL injection attacks Complicating session hijacking attempts You are in good hands with author Chris Shiflett, an internationally-recognized expert in the field of PHP security. Shiflett is also the founder and President of Brain Bulb, a PHP consultancy that offers a variety of services to clients around the world.

**From Database to Cyber Security** Aug 12 2021 This Festschrift is in honor of Sushil Jajodia, Professor in the George Mason University, USA, on the occasion of his 70th birthday. This book contains papers written in honor of Sushil Jajodia, of his vision and his achievements. Sushil has sustained a highly active research agenda spanning several important areas in computer security and privacy, and established himself as a leader in the security research community through unique scholarship and service. He has extraordinarily impacted the scientific and academic community, opening and pioneering new directions of research, and significantly influencing the research and development of security solutions worldwide. Also, his excellent record of research funding shows his commitment to sponsored research and the practical impact of his work. The research areas presented in this Festschrift include membrane computing, spiking neural networks, phylogenetic networks, ant colonies optimization, work bench for bio-computing, reaction systems, entropy of computation, rewriting systems, and insertion-deletion systems.

**Mergent Industrial Manual** Nov 26 2022