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Networks and Communications (NetCom2013)

Springer

Businesses in today ' s world are adopting technology-enabled operating models that aim to improve growth, revenue, and identify emerging markets. However, most of these businesses are not suited to defend themselves from the cyber risks that come with these data-driven practices. To further prevent these threats, they need to have a complete understanding of modern network security solutions and the ability to manage, address, and respond to security breaches. The Handbook of Research on Intrusion Detection Systems provides emerging research exploring the theoretical and practical aspects of prominent and effective techniques used to detect and contain breaches within the fields of data science and cybersecurity. Featuring coverage on a broad range of topics such as botnet detection, cryptography, and access control models, this book is ideally designed for security analysts, scientists, researchers, programmers, developers, IT professionals, scholars, students, administrators, and faculty members seeking research on current advancements in network security technology.

Handbook of e-Business Security CRC Press

This book covers selected high-quality research

papers presented in the International Conference on Cyber Security, Privacy and Networking (ICSPN 2021), organized during 17-19 September 2021 in India in Online mode. The objectives of ICSPN 2021 is to provide a premier international platform for deliberations on strategies, recent trends, innovative approaches, discussions and presentations on the most recent cyber security, privacy and networking challenges and developments from the perspective of providing security awareness and its best practices for the real world. Moreover, the motivation to organize this conference is to promote research by sharing innovative ideas among all levels of the scientific community, and to provide opportunities to develop creative solutions to various security, privacy and networking problems.

Risks and Security of Internet and Systems IGI Global

This book constitutes the refereed proceedings of the 8th International Conference on Internet and Distributed Computing Systems, IDCS 2015, held in Windsor, UK, in September 2015. The 19 revised full and 6 revised short papers presented were carefully reviewed and selected from 42 submissions. The selected contributions covered cutting-edge aspects of Cloud Computing and Internet of Things,

sensor networks, parallel and distributed computing, advanced networking, smart cities and smart buildings, Big Data and social networks.

CYBERWARFARE SOURCEBOOK
Springer Nature

The internet is established in most households worldwide and used for entertainment purposes, shopping, social networking, business activities, banking, telemedicine, and more. As more individuals and businesses use this essential tool to connect with each other and consumers, more private data is exposed to criminals ready to exploit it for their gain. Thus, it is essential to continue discussions involving policies that regulate and monitor these activities, and anticipate new laws that should be implemented in order to protect users. *Cyber Law, Privacy, and Security: Concepts, Methodologies, Tools, and Applications* examines current internet and data protection laws and their impact on user experience and cybercrime, and explores the need for further policies that protect user identities, data, and privacy. It also offers the latest methodologies and applications in the areas of digital security and threats. Highlighting a range of topics such as online privacy and security, hacking, and online threat protection, this multi-volume book is ideally designed for IT specialists, administrators, policymakers, researchers, academicians, and upper-level students.

Distributed Denial of Service Attacks Springer

Distributed Denial of Service (DDoS) attacks have become more destructive, wide-spread and harder to control over time. This

book allows students to understand how these attacks are constructed, the security flaws they leverage, why they are effective, how they can be detected, and how they can be mitigated. Students use software defined networking (SDN) technology to create and execute controlled DDoS experiments. They learn how to deploy networks, analyze network performance, and create resilient systems. This book is used for graduate level computer engineering instruction at Clemson University. It augments the traditional graduate computing curricula by integrating: Internet deployment, network security, ethics, contemporary social issues, and engineering principles into a laboratory based course of instruction. Unique features of this book include: A history of DDoS attacks that includes attacker motivations Discussion of cyber-war, censorship, and Internet black-outs SDN based DDoS laboratory assignments Up-to-date review of current DDoS attack techniques and tools Review of the current laws that globally relate to DDoS Abuse of DNS, NTP, BGP and other parts of the global Internet infrastructure to attack networks Mathematics of Internet traffic measurement Game theory for DDoS resilience Construction of content distribution systems that absorb DDoS attacks This book assumes familiarity with computing, Internet design, appropriate background in mathematics, and some programming skills. It provides analysis and reference material for networking engineers and researchers. By increasing student knowledge in security, and networking; it adds breadth and depth to advanced computing

curricula.

Security and Privacy in
Communication Networks

Springer Nature

Suddenly your Web server becomes unavailable. When you investigate, you realize that a flood of packets is surging into your network. You have just become one of the hundreds of thousands of victims of a denial-of-service attack, a pervasive and growing threat to the Internet. What do you do? Internet Denial of Service sheds light on a complex and fascinating form of computer attack that impacts the confidentiality, integrity, and availability of millions of computers worldwide. It tells the network administrator, corporate CTO, incident responder, and student how DDoS attacks are prepared and executed, how to think about DDoS, and how to arrange computer and network defenses. It also provides a suite of actions that can be taken before, during, and after an attack. Inside, you'll find comprehensive information on the following topics How denial-of-service attacks are waged How to improve your network's resilience to denial-of-service attacks What to do when you are involved in a denial-of-service attack The

laws that apply to these attacks and their implications How often denial-of-service attacks occur, how strong they are, and the kinds of damage they can cause Real examples of denial-of-service attacks as experienced by the attacker, victim, and unwitting accomplices The authors' extensive experience in handling denial-of-service attacks and researching defense approaches is laid out clearly in practical, detailed terms.

Distributed Denial of Service

(DDoS) Attacks IGI Global Network infrastructures are growing rapidly to meet the needs of business, but the required repolicing and reconfiguration provide challenges that need to be addressed. The software-defined network (SDN) is the future generation of Internet technology that can help meet these challenges of network management. This book includes quantitative research, case studies, conceptual papers, model papers, review papers, and theoretical backing on SDN. This book investigates areas where SDN can help other emerging technologies deliver more efficient services, such as IoT, industrial IoT, NFV, big data, blockchain, cloud computing, and edge computing. The book demonstrates the many benefits of SDNs, such as reduced costs, ease of deployment and management, better scalability, availability, flexibility and fine-grained control of traffic, and security. The book demonstrates the many

benefits of SDN, such as reduced costs, ease of deployment and management, better scalability, availability, flexibility and fine-grained control of traffic, and security. Chapters in the volume address: Design considerations for security issues and detection methods State-of-the-art approaches for mitigating DDos attacks using SDN Big data using Apache Hadoop for processing and analyzing large amounts of data Different tools used for attack simulation Network policies and policy management approaches that are widely used in the context of SDN Dynamic flow tables, or static flow table management A new four-tiered architecture that includes cloud, SDN-controller, and fog computing Architecture for keeping computing resources available near the industrial IoT network through edge computing The impact of SDN as an innovative approach for smart city development More. The book will be a valuable resource for SDN researchers as well as academicians, research scholars, and students in the related areas.

Theory and Applications of Ordered Fuzzy Numbers

John Wiley & Sons

This edited book provides an optimal portrayal of the principles and applications related to network security. The book is thematically divided into five segments: Part A describes the introductory issues related to network security with some concepts of cutting-edge technologies; Part B builds from there and exposes the readers to the digital, cloud and IoT forensics; Part C

presents readers with blockchain and cryptography techniques; Part D deals with the role of AI and machine learning in the context of network security. And lastly, Part E is written on different security networking methodologies. This is a great book on network security, which has lucid and well-planned chapters. All the latest security technologies are thoroughly explained with upcoming research issues. Details on Internet architecture, security needs, encryption, cryptography along with the usages of machine learning and artificial intelligence for network security are presented in a single cover. The broad-ranging text/reference comprehensively surveys network security concepts, methods, and practices and covers network security policies and goals in an integrated manner. It is an essential security resource for practitioners in networks and professionals who develop and maintain secure computer networks.

The "Essence" of Network Security: An End-to-End Panorama

Springer Nature

This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various

concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

Handbook of Computer Networks and Cyber Security Springer Nature

This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Risks and Security of Internet Systems, CRiSIS 2015, held in Mytilene, Lesbos Island, Greece, in July 2015. The 18 full papers presented were selected from 50 submissions. The papers sessions that have covered a broad range of topics: trust and privacy issues, privacy policies and policy based protocols, risk management, risk analysis and vulnerability assessment, cloud systems and cryptography, and attack and security measures.

Internet and Distributed Computing Systems Springer Science & Business Media

This book constitutes the refereed proceedings of the First Conference on Creativity in Intelligent Technologies and Data Science, CIT&DS 2015, held in Volgograd, Russia, in September 2015. The 66 revised full papers and two short papers presented were carefully reviewed and selected from 208 submissions. The papers are organized in topical sections on computational creativity for science and design; knowledge discovery in patent and open sources for creative tasks; software computer-aided design and agent-based systems; conceptual, cognitive and qualitative modeling with

application in intelligent decision making; design creativity in CAD/CAM/CAE/PDM; intelligent decision support for continual improvement process; data science in energy management, transportation and urban development; data science in social networks analysis; natural language and image processing and analysis; game-based learning technologies in engineering education and educational games design; personalized learning in Web-based intelligent educational systems; e-inclusion: development of smart mobile applications for people with disabilities.

Internet Denial of Service
CRC Press

User-Centric Networks (UCN) and Information-Centric Networks (ICN) are new communication paradigms to increase the efficiency of content delivery and also content availability. In this new concept, the network infrastructure actively contributes to content caching and distribution. This book presents the basic concepts of UCN and ICN, describes the main architecture proposals for these networks, and discusses the main challenges to their development. The book also looks at the current challenges for this concept, including naming, routing and

caching on the network-core elements, several aspects of content security, user privacy, and practical issues in implementing UCN and ICN. Security Solutions and Applied Cryptography in Smart Grid

Communications CRC Press
This book constitutes the proceedings of the 17th IFIP WG 6.2 International Conference on Wired/Wireless Internet Communications, WWIC 2019, held in Bologna, Italy, in June 2019. The 20 full papers presented were carefully reviewed and selected from 35 submissions. The papers address various aspects of next generation data networks, such as design and evaluation of protocols, dynamics of integration, performance tradeoffs, the need for new performance metrics, and cross-layer interactions. They are organized in the following topical sections: the Internet of Things and WLANs; security and network management; 5G and beyond 5G networks; forwarding and congestion control; and distributed applications.

Intelligent Algorithms in Software Engineering CRC Press

This book constitutes the refereed proceedings of the 13th International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2017, held in Beijing, China, in December 2017. The 39 revised full papers presented were

carefully reviewed and selected from 145 submissions. The papers address issues such as multi-hop wireless networks and wireless mesh networks; sensor and actuator networks; vehicle ad hoc networks; mobile social network; delay tolerant networks and opportunistic networking; cyber-physical systems; internet of things; system modeling and performance analysis; routing and network protocols; data transport and management in mobile networks; resource management and wireless QoS provisioning; security and privacy; cross layer design and optimization; novel applications and architectures.

Online Gambling and Crime IGI Global

Concerning application layer DDoS attacks, Bureau 121, camfecting, cyber attack threat trends, ECHELON, Fifth Dimension Operations, Intervasion of the UK, Military-digital complex, PLA Unit 61398, Stuxnet, and more

Research Anthology on Combating Denial-of-Service Attacks Springer

This book is one of a series of various doctoral research project papers and has been further refined and converted into a book. The book has been deemed one of further versions of management science that are to come. These further versions focus

more on information technology and its effects as agile tools for management, including software engineering, algorithms and data structures, computer architecture and electronics, systems science, artificial intelligence and robotics, quantum science, statistics, and web-internet and multimedia design and building. Managers are usually multifaceted with multiple disciplines even though they have one or two areas as majors, specialties, or experience. It is in the light of this that Management Science Featuring Micro-Macro Economics and Management of Information Technology was designed in this context to contain economics with IT as a course of study. In the future, further versions will be pure courses instead of combinations. The world has changed gear for the better due to the advanced mysteries of information technology innovations so that we could even conduct scientific laboratory experiments, medical diagnoses, and rule of law adjudications online. That means we could not forget information technology as one major tool in hand that should be a pivot on and around which all other areas in management should dwell and revolve, and

this was one of the sole reasons of this book. It is therefore worthy of note for readers aspiring as systems analysts, managers, and professionals to accustom themselves to the subject areas in the book to instill understanding of numerous important terms and points in economics and IT. This will help to build further courage and understanding toward advancement in these fields. All topics indicated in the table of contents have been made reader friendly and treated to focus easy understanding. We highly acknowledge all the intellectual materials used.

Software Defined Networks

Pearson Education

Complete proceedings of the 14th European Conference on Cyber Warfare and Security Hatfield UK Published by Academic Conferences and Publishing International Limited

Management Science Featuring Micro-Macro Economics and Management of Information Technology IGI Global Offering the first empirically driven assessment of the development, marketisation, regulation and use of online gambling organisations and their products, this book explores the relationship between online gambling and crime. It draws upon quantitative and qualitative data, including textual and visual analyses of e-gambling advertising and the records of player-

protection and standards organisations, together with a virtual ethnography of online gambling subcultures, to examine the ways in which gambling and crime have been approached in practice by gamers, regulatory agencies and online gambling organisations. Building upon contemporary criminological theory, it develops an understanding of online gambling as an arena in which risks and rewards are carefully constructed and through which players navigate, employing their own agency to engage with the very real possibility of victimisation. With attention to the manner in which online gambling can be a source of criminal activity, not only on the part of players, but also criminal entrepreneurs and legitimate gambling businesses, *Online Gambling and Crime* discusses developments in criminal law and regulatory frameworks, evaluating past and present policy on online gambling. A rich examination of the prevalence, incidence and experience of a range of criminal activities linked to gambling on the Internet, this book will appeal to scholars and policy makers in the fields of sociology and criminology, law, the study of culture and subculture, risk, health studies and social policy. *ECCWS2015-Proceedings of the 14th European Conference on Cyber Warfare and Security 2015* Springer

Our world is increasingly driven by sophisticated networks of advanced computing technology, and the basic operation of everyday society is becoming increasingly

vulnerable to these networks' shortcomings. The implementation and upkeep of a strong network defense is a substantial challenge, beset not only by economic disincentives but also by an inherent logistical bias that grants advantage to attackers. Research Anthology on Combating Denial-of-Service Attacks examines the latest research on the development of intrusion detection systems and best practices for preventing and combatting cyber-attacks intended to disrupt business and user experience. Highlighting a range of topics such as network administration, application-layer protocols, and malware detection, this publication is an ideal reference source for cybersecurity professionals, IT specialists, policymakers, forensic analysts, technology developers, security administrators, academicians, researchers, and students.

Software-Defined Networking for Future Internet Technology CRC Press

In the world of digitization today, many services of government and industry are carried out in electronic mode in order to avoid the misuse of natural resources. The implementation of e-services also provides transparency and efficiency. However, these e-services are vulnerable to cyber threats and need special measures in place to provide safety and security as they are being used in the cyber space.

This new volume provides an introduction to and overview of cybersecurity in e-services and e-governance systems. The volume presents and discusses the most recent innovations, trends, and concerns, as well as the practical challenges encountered and solutions adopted in the fields of security and e-services. The editors bring together leading academics, scientists, researchers, and research scholars to share their experiences and research results on many aspects of e-services, e-governance, and cybersecurity. The chapters cover diverse topics, such as using digital education to curb gender violence, cybersecurity threats and technology in the banking industry, e-governance in the healthcare sector, cybersecurity in the natural gas and oil industry, developing information communication systems, and more. The chapters also include the uses and selection of encryption technology and software.