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The "Essence" of Network Security: An End-to-End Panorama 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. [Information Technology - New Generations](#) Lulu.com This book covers theory, methodology and applications of computer networks, network protocols and wireless networks, data communication technologies, and network security. The book is based on the proceedings from the Fifth International Conference on Networks & Communications (NetCom). The proceedings will feature peer-reviewed papers that illustrate research

results, projects, surveys and industrial experiences that describe significant advances in the diverse areas of computer networks & communications. **Handbook of Research on Intrusion Detection Systems** IGI Global
Cloud computing has become integrated into all sectors, from business to quotidian life. Since it has revolutionized modern computing, there is a need for updated research related to the architecture and frameworks necessary to maintain its efficiency. The **Handbook of Research on End-to-End Cloud Computing Architecture Design** provides architectural design and implementation studies on cloud computing from an end-to-end approach, including the latest industrial works and extensive research studies of cloud computing. This handbook enumerates deep dive and systemic studies of cloud computing from architecture to implementation. This book is a

comprehensive publication ideal for programmers, IT professionals, students, researchers, and engineers. IGI Global
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. **Cloud Security: Concepts, Methodologies, Tools, and Applications** John Wiley & Sons
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. **The Official (ISC)2 Guide to the SSCP CBK** Springer
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.

CYBERWARFARE

SOURCEBOOK Springer Science & Business Media

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. [Handbook of Research on](#)

End-to-End Cloud Computing Architecture Design IGI Global

Electrical energy usage is increasing every year due to population growth and new forms of consumption. As such, it is increasingly imperative to research methods of energy control and safe use. Security Solutions and Applied Cryptography in Smart Grid Communications is a pivotal reference source for the latest research on the development of smart grid technology and best practices of utilization. Featuring extensive coverage across a range of relevant perspectives and topics, such as threat detection, authentication, and intrusion detection, this book is ideally designed for academicians, researchers, engineers and students seeking current research on ways in which to implement smart grid platforms all over the globe. [Creativity in Intelligent Technologies and Data Science](#) Springer Nature This book offers an accessible guide to ubiquitous computing, with an emphasis on pervasive networking. It addresses various technical obstacles, such as connectivity, levels of service, performance, reliability and fairness. The focus is on describing

currently available off-the-shelf technologies, novel algorithms and techniques in areas such as: underwater sensor networks, ant colony based routing, heterogeneous networks, agent based distributed networks, cognitive radio networks, real-time WSN applications, machine translation, intelligent computing and ontology based bit masking. By introducing the core topics and exploring assistive pervasive systems that draw on pervasive networking, the book provides readers with a robust foundation of knowledge on this growing field of research. Written in a straightforward style, the book is also accessible to a broad audience of researchers and designers who are interested in exploring pervasive computing further.

**Management Science
Featuring Micro-Macro
Economics and
Management of
Information Technology**

AuthorHouse

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.

Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security Springer

The recent widespread use of mobile Internet together with the advent of numerous smart applications has led to the explosive growth of the mobile data traffic in the last few years. This momentum of mobile traffic will continue due to the emerging needs of connecting people, machines, and applications through mobile infrastructure. As a result, the current and projected dramatic growth of mobile data traffic

necessitates the development of fifth-generation (5G) mobile communications technology. As a result, there is significant interest in the development of innovative backhaul and fronthaul solutions for ultra-dense heterogeneous networks. This book brings together mobile stakeholders from academia and industry to identify and promote technical challenges and recent results related to smart backhaul/fronthaul research for future communication system such as 5G. Moreover,

it presents a comprehensive analysis on different types of backhaul/fronthaul technology and topology. It considers already available topology for backhauling/fronthauling and explains all fundamental requirements for deploying future smart and efficient backhauling/fronthauling infrastructure from an architectural, technical and business point of view and presents real life applications and use cases. Expanding on standardization activities, this book consists of multiple channels on specific research topics. The chapters are logically organized as the authors approach the subject from overview to specifics and from a lower to higher layer direction.

ICT with Intelligent Applications Architectural Wireless Networks Solutions and Security Issues Architectural Wireless Networks Solutions and Security Issues Springer Nature

[A Comprehensive Guide to 5G Security](#) IGI Global
Ambient Assisted Living and Enhanced Living Environments: Principles, Technologies and Control separates the theoretical concepts concerning the design of such systems from their real-world implementations. For each important topic, the book bridges theory and practice, introducing the instruments needed by professionals in their activities. To this aim, topics are presented in a

logical sequence, with the introduction of each topic motivated by the need to respond to claims and requirements from a wide range of AAL/ELE applications. The advantages and limitations of each model or technology are presented through concrete case studies for AAL/ELE systems. The book also presents up-to-date technological solutions to the main aspects regarding AAL/ELE systems and applications, a highly dynamic scientific domain that has gained much interest in the world of IT in the last decade. In addition, readers will find discussions on recent AAL/ELE technologies that were designed to solve some of the thorniest business problems that affect applications in areas such as health and medical supply, smart city and smart housing, Big Data and Internet of Things, and many more. Introduces readers to technologies supporting the development of Ambient Assisted Living applications Explains state-of-the-art technological solutions for the main issues regarding AAL and Enhanced Living Environments Reports the development process of scientific and commercial applications and platforms that support AAL and ELE Identifies the advanced solutions in the context of Enhanced Living Environments

Theory and Applications of Ordered Fuzzy Numbers Springer
The cyber security of vital

infrastructure and services has become a major concern for countries worldwide. The members of NATO are no exception, and they share a responsibility to help the global community to strengthen its cyber defenses against malicious cyber activity. This book presents 10 papers and 21 specific findings from the NATO Advanced Research Workshop (ARW) 'Best Practices in Computer Network Defense (CND): Incident Detection and Response, held in Geneva, Switzerland, in September 2013. The workshop was attended by a multi-disciplinary team of experts from 16 countries and three international institutions. The book identifies the state-of-the-art tools and processes being used for cyber defense and highlights gaps in the technology. It presents the best practice of industry and government for incident detection and response and examines indicators and metrics for progress along the security continuum. This book provides those operators and decision makers whose work it is to strengthen the cyber defenses of the global community with genuine tools and expert advice. Keeping pace and deploying advanced process or technology is only possible

when you know what is available. This book shows what is possible and available today for computer network defense and for incident detection and response.

Handbook of Computer Networks and Cyber Security Springer Nature
This book gathers the most recent developments in fuzzy & intelligence systems and real complex systems presented at INFUS 2020, held in Istanbul on July 21–23, 2020. The INFUS conferences are a well-established international research forum to advance the foundations and applications of intelligent and fuzzy systems, computational intelligence, and soft computing, highlighting studies on fuzzy & intelligence systems and real complex systems at universities and international research institutions. Covering a range of topics, including the theory and applications of fuzzy set extensions such as intuitionistic fuzzy sets, hesitant fuzzy sets, spherical fuzzy sets, and fuzzy decision-making; machine learning; risk

assessment; heuristics; and clustering, the book is a valuable resource for academics, M.Sc. and Ph.D. students, as well as managers and engineers in industry and the service sectors.

Guide to Security Assurance for Cloud Computing Springer Nature

ICT technologies have contributed to the advances in wireless systems, which provide seamless connectivity for worldwide communication. The growth of interconnected devices and the need to store, manage, and process the data from them has led to increased research on the intersection of the internet of things and cloud computing. The Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization is a pivotal reference source that provides the latest research findings and solutions for the design and augmentation of wireless systems and cloud computing. The content within this publication examines data mining, machine learning, and software engineering, and is designed for IT specialists, software engineers, researchers, academicians, industry professionals, and students.

Handbook of Research on Network Forensics and Analysis Techniques IGI Global

Internet usage has become a facet of

everyday life, especially as more technological advances have made it easier to connect to the web from virtually anywhere in the developed world.

However, with this increased usage comes heightened threats to security within digital environments. The Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security identifies emergent research and techniques being utilized in the field of cryptology and cyber threat prevention.

Featuring theoretical perspectives, best practices, and future research directions, this handbook of research is a vital resource for professionals, researchers, faculty members, scientists, graduate students, scholars, and software developers interested in threat identification and prevention.

Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization Springer
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.

Security Solutions and Applied Cryptography in Smart Grid

Communications Springer

There are a lot of e-business security concerns. Knowing about e-business security issues will likely help overcome them. Keep in mind, companies that have control over their e-business are likely to prosper most. In other words, setting up and maintaining a secure e-

business is essential and important to business growth. This book covers state-of-the art practices in e-business security, including privacy, trust, security of transactions, big data, cloud computing, social network, and distributed systems.

Research Anthology on Combating Denial-of-Service Attacks John Wiley & Sons

Drawing upon the expertise of world-renowned researchers and experts, The Cloud Security Ecosystem comprehensively discusses a range of cloud security topics from multi-disciplinary and international perspectives, aligning technical security implementations with the most recent developments in business, legal, and international environments. The book holistically discusses key research and policy advances in cloud security – putting technical and management issues together with an in-depth treatise on a multi-disciplinary and international subject. The book features contributions from key thought leaders and top researchers in the technical, legal, and business and management aspects of cloud security. The authors

present the leading edge of cloud security research, covering the relationships between differing disciplines and discussing implementation and legal challenges in planning, executing, and using cloud security. Presents the most current and leading-edge research on cloud security from a multi-disciplinary standpoint, featuring a panel of top experts in the field. Focuses on the technical, legal, and business management issues involved in implementing effective cloud security, including case examples. Covers key technical topics, including cloud trust protocols, cryptographic deployment and key management, mobile devices and BYOD security management, auditability and accountability, emergency and incident response, as well as cloud forensics. Includes coverage of management and legal issues such as cloud data governance, mitigation and liability of international cloud deployment, legal boundaries, risk management, cloud information security management plans, economics of cloud security, and standardization efforts.