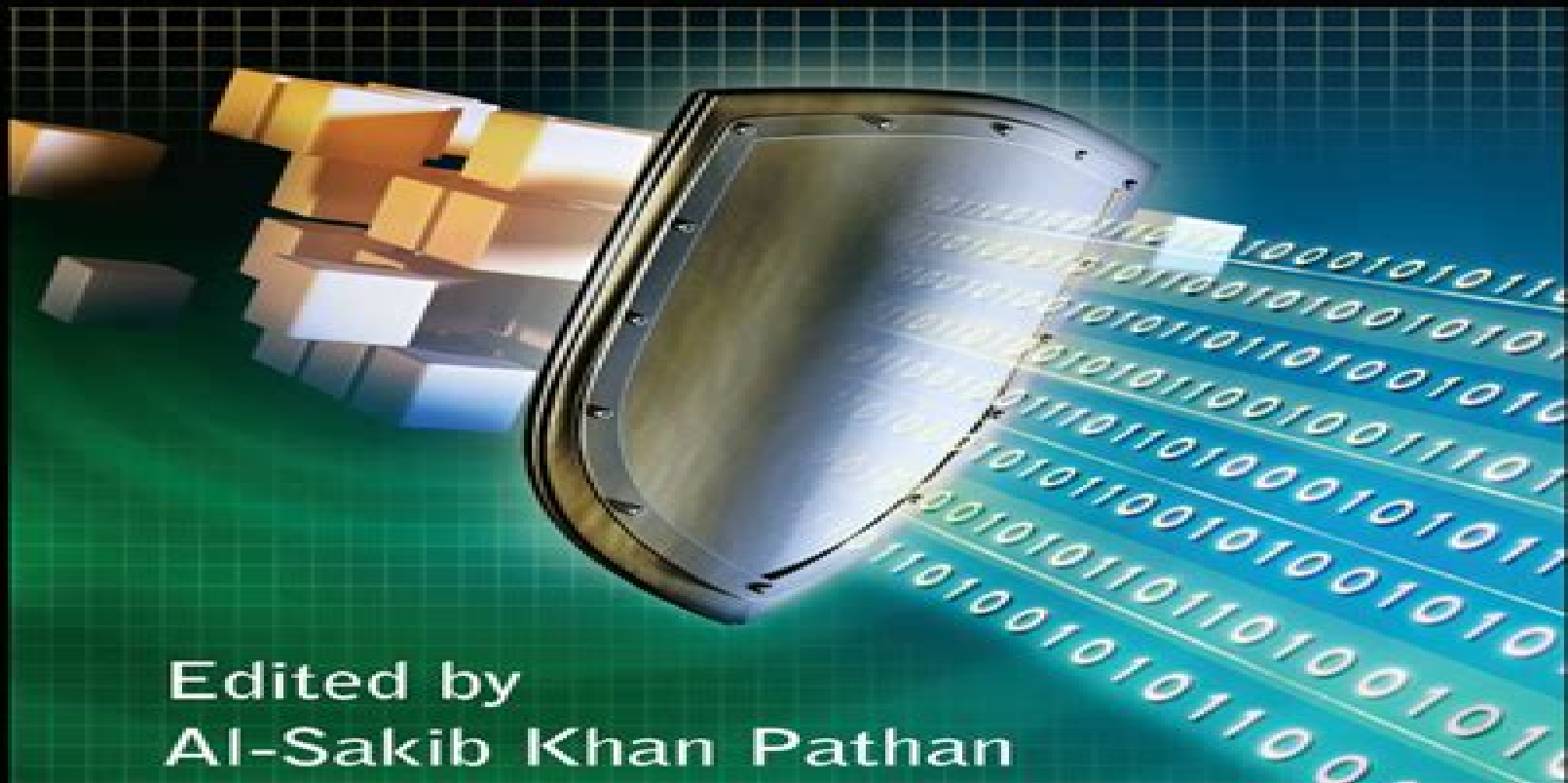


# The State of the Art in Intrusion Prevention and Detection



Edited by  
Al-Sakib Khan Pathan



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# The State Of The Art In Intrusion Prevention And Detection

**Georg Borges, Christoph Sorge**



## **The State Of The Art In Intrusion Prevention And Detection:**

The State of the Art in Intrusion Prevention and Detection Al-Sakib Khan Pathan, 2014-01-29 The State of the Art in Intrusion Prevention and Detection analyzes the latest trends and issues surrounding intrusion detection systems in computer networks especially in communications networks Its broad scope of coverage includes wired wireless and mobile networks next generation converged networks and intrusion in social networks Presenting cutting edge research the book presents novel schemes for intrusion detection and prevention It discusses tracing back mobile attackers secure routing with intrusion prevention anomaly detection and AI based techniques It also includes information on physical intrusion in wired and wireless networks and agent based intrusion surveillance detection and prevention The book contains 19 chapters written by experts from 12 different countries that provide a truly global perspective The text begins by examining traffic analysis and management for intrusion detection systems It explores honeypots honeynets network traffic analysis and the basics of outlier detection It talks about different kinds of IDSs for different infrastructures and considers new and emerging technologies such as smart grids cyber physical systems cloud computing and hardware techniques for high performance intrusion detection The book covers artificial intelligence related intrusion detection techniques and explores intrusion tackling mechanisms for various wireless systems and networks including wireless sensor networks WiFi and wireless automation systems Containing some chapters written in a tutorial style this book is an ideal reference for graduate students professionals and researchers working in the field of computer and network security **Cyber Physical System 2.0**

Amitkumar V. Jha, Bhargav Appasani, 2024-12-16 The book covers the emerging communication and computational technologies for future cyber physical systems and discusses the security of in vehicle communication protocols using automotive embedded systems presenting an in depth analysis across various domains such as manufacturing transportation health care and smart cities This book Discusses how communication and computing co design provides dynamic adaptability and centralized control Presents the convergence of physical and digital realities within the metaverse and multiverse setting the stage for the future of cyber physical social systems CPSS Presents emerging communication and computational technologies such as 6G software defined networking cloud computing blockchain artificial intelligence machine learning virtual reality and blockchain for the design and implementation of cyber physical systems Explores advanced topics such as security and privacy in industrial CPS strategies for protecting serial industrial networks and enhancing firmware update security in automotive systems It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer science and engineering and information technology Scalable Information Systems Jason J. Jung, Costin Badica, Attila Kiss, 2015-04-06 This book constitutes the thoroughly refereed post conference proceedings of the International Conference on Scalable Information Systems INFOSCALE 2014 held in September 2014 in Seoul South Korea The 9 revised full papers presented were carefully

reviewed and selected from 14 submissions The papers cover a wide range of topics such as scalable data analysis and big data applications

**Data Analytics** Mohiuddin Ahmed, Al-Sakib Khan Pathan, 2018-09-21 Large data sets arriving at every increasing speeds require a new set of efficient data analysis techniques Data analytics are becoming an essential component for every organization and technologies such as health care financial trading Internet of Things Smart Cities or Cyber Physical Systems However these diverse application domains give rise to new research challenges In this context the book provides a broad picture on the concepts techniques applications and open research directions in this area In addition it serves as a single source of reference for acquiring the knowledge on emerging Big Data Analytics technologies

**The 7th International Conference on Information Science, Communication and Computing** Xuesong Qiu, Yang Xiao, Zhiqiang Wu, Yudong Zhang, Yuan Tian, Bo Liu, 2023-11-02 This conference proceedings is a collection of the accepted papers of ISCC2023 the 7th International Conference on Information Science Communication and Computing held in Chongqing China 2 5 June 2023 The topics focus on intelligent information science and technology artificial intelligence and intelligent systems cloud computing and big data smart computing and communication technology wireless network and cyber security Each part can be used as an excellent reference by industry practitioners university faculties research fellows and undergraduate and graduate students who need to build a knowledge base of the latest advances and state of the practice in the topics covered by this conference proceedings This will enable them to build maintain and manage systems of high reliability and complexity We would like to thank the authors for their hard work and dedication and the reviewers for ensuring that only the highest quality papers were selected

**IDS and IPS with Snort 3** Ashley Thomas, 2024-09-27 Learn the essentials of Snort 3 0 including installation configuration system architecture and tuning to develop effective intrusion detection and prevention solutions with this easy to follow guide Key Features Get to grips with the fundamentals of IDS IPS and its role in network defense Explore the architecture and key components of Snort 3 and get the most out of them Migrate from Snort 2 to Snort 3 while seamlessly transferring configurations and signatures Purchase of the print or Kindle book includes a free PDF eBook Book Description Snort an open source intrusion detection and prevention system IDS IPS capable of real time traffic analysis and packet logging is regarded as the gold standard in IDS and IPS The new version Snort 3 is a major upgrade to the Snort IDS IPS featuring a new design and enhanced detection functionality resulting in higher efficacy and improved performance scalability usability and extensibility Snort 3 is the latest version of Snort with the current version at the time of writing being Snort v3 3 3 This book will help you understand the fundamentals of packet inspection in Snort and familiarize you with the various components of Snort The chapters take you through the installation and configuration of Snort focusing on helping you fine tune your installation to optimize Snort performance You ll get to grips with creating and modifying Snort rules fine tuning specific modules deploying and configuring as well as troubleshooting Snort The examples in this book enable network administrators to understand the real world application of Snort while familiarizing them with

the functionality and configuration aspects By the end of this book you ll be well equipped to leverage Snort to improve the security posture of even the largest and most complex networks What you will learn Understand the key changes in Snort 3 and troubleshoot common Snort 3 issues Explore the landscape of open source IDS IPS solutions Write new Snort 3 signatures based on new threats and translate existing Snort 2 signatures to Snort 3 Write and optimize Snort 3 rules to detect and prevent a wide variety of threats Leverage OpenAppID for application detection and control Optimize Snort 3 for ideal detection rate performance and resource constraints Who this book is for This book is for network administrators security administrators security consultants and other security professionals Those using other IDSs will also gain from this book as it covers the basic inner workings of any IDS Although there are no prerequisites basic familiarity with Linux systems and knowledge of basic network packet analysis will be very helpful

Low-Power Wide-Area Networks: Opportunities, Challenges, Risks and Threats Ismail Butun,Ian F. Akyildiz,2023-09-13 This book offers the most suitable methods of applying Low Power Wide Area Network LPWAN technology to conceptual works and or research studies For instance existing IoT protocols such as CoAP and MQTT are complemented by LPWAN to provide better service quality QoS to enable the notion of sensor as a service to endpoint users which is demonstrated in this book LPWAN is a new enabling technology for IoT filling the gap that existed between the legacy network technologies WLAN LAN PAN in terms of power range and data rates It is also an alternative solution to implementations of IoT via cellular 4G 5G 6G technologies as it operates on the ISM band and also provides long term battery life Due to the several advantages it brings LPWAN raises high enthusiasm for many stakeholders of IoT However there still exist many research challenges to be tackled within this technology As such this book aims at shedding light on those research problems Moreover practical users can also benefit from this book Emergency response teams can leverage IoT systems with the extended communications range capability provided by LPWAN technology Moreover machine to machine M2M and thing to thing T2T communications also benefit from this notion as well as the Social IoT SIoT concept owing to the low power consumption advantage that is brought up by LPWAN technologies e g 10 years battery lifetime projection for the LoRaWAN end devices is very promising Eventually this proposed book aims at covering all aspects of LPWANs from A to Z theoretical aspects hardware platforms and technologies along with applications opportunities and finally challenges Cyber attacks and incidences are on the rise within the last decade especially cases in large corporates and critical infrastructures have shown that cybersecurity should become one of the important pillars of computer network infrastructures as well as any kind of relevant technology being introduced As such cybersecurity is bringing attention not only from practitioners and academicians but also from other parties such as media politicians etc Eventually to reflect this important point of view this book includes three chapters to investigate various aspects of LPWAN cybersecurity Researchers working in wireless communications technologies and advanced level students taking courses in electrical engineering or computer science will benefit from this book as a reference Professionals working within this

related field will also want to purchase this book

**Law and Technology in a Global Digital Society** Georg Borges, Christoph Sorge, 2022-05-06 This book examines central aspects of the new technologies and the legal questions raised by them from both an international and an inter disciplinary perspective The technology revolution and the global networking of IT systems pose enormous challenges for the law Current areas of discussion relate to autonomous systems big data and issues surrounding legal tech Ensuring data protection and IT security as well as the creation of a legal framework for the new technology as a whole can only be achieved through international and inter disciplinary co operation The team of authors is made up of experienced internationally renowned experts as well as young researchers and professionals who give valuable insights from numerous different jurisdictions This book is written for jurists and those responsible for technology in public authorities and companies as well as practising lawyers and researchers

**Explainable IoT Applications: A Demystification** Sachi Nandan Mohanty, Suneeta Satpathy, Xiaochun Cheng, Subhendu Kumar Pani, 2025-02-13 Explainable IoT Application A Demystification is an in depth guide that examines the intersection of the Internet of Things IoT with AI and Machine Learning focusing on the crucial need for transparency and interpretability in IoT systems As IoT devices become more integrated into daily life from smart homes to industrial automation it is increasingly important to understand and trust the decisions they make The book starts by covering the basics of IoT highlighting its importance in modern technology and its wide ranging applications in fields such as healthcare transportation and smart cities It then delves into the concept of explainability stressing the need to prevent IoT systems from being perceived as opaque black box operations The authors explore various techniques and methods for achieving explainability including rule based systems and machine learning models while also addressing the challenge of balancing explainability with performance Through practical examples the book shows how explainability can be successfully implemented in IoT applications such as in smart healthcare systems Furthermore the book addresses the significant challenges of securing IoT systems in an increasingly connected world It examines the unique vulnerabilities that come with the widespread use of IoT devices such as data breaches cyberattacks and privacy issues and discusses the complexities of managing these risks The authors emphasize the importance of implementing security strategies that strike a balance between fostering innovations and protecting user data The book concludes with a comprehensive exploration of the challenges and opportunities in making IoT systems more transparent and interpretable offering valuable insights for researchers developers and decision makers aiming to create IoT applications that are both trustworthy and understandable

[Advances in Parallel Computing Algorithms, Tools and Paradigms](#) D. Jude Hemanth, Tu N. Nguyen, J. Indumathi, Sairamesh Lakshmanan, 2022-11-15 Recent developments in parallel computing for various fields of application are providing improved solutions for handling data These newer innovative ideas offer the technical support necessary to enhance intellectual decisions while also dealing more efficiently with the huge volumes of data currently involved This book presents the proceedings of ICAPTA 2022 the International Conference on Advances in

Parallel Computing Technologies and Applications hosted as a virtual conference from Bangalore India on 27 and 28 January 2022 The aim of the conference was to provide a forum for the sharing of knowledge about various aspects of parallel computing in communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas The conference also provided a premier platform for scientists researchers practitioners and academicians to present and discuss their most recent innovations trends and concerns as well as the practical challenges encountered in this field More than 300 submissions were received for the conference from which the 91 full length papers presented here were accepted after review by a panel of subject experts Topics covered include parallel computing in communication machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects Providing an overview of recent developments in the field the book will be of interest to all those whose work involves the use of parallel computing technologies

*Advanced Computing Technologies and Applications* Hari Vasudevan, Antonis Michalas, Narendra Shekokar, Meera Narvekar, 2020-05-06 This book features selected papers presented at the 2nd International Conference on Advanced Computing Technologies and Applications held at SVKM s Dwarkadas J Sanghvi College of Engineering Mumbai India from 28 to 29 February 2020 Covering recent advances in next generation computing the book focuses on recent developments in intelligent computing such as linguistic computing statistical computing data computing and ambient applications

**Recent Advances in Security, Privacy, and Trust for Internet of Things (IoT) and Cyber-Physical Systems (CPS)** Kuan-Ching Li, Brij B. Gupta, Dharma P. Agrawal, 2020-12-16 Security privacy and trust in the Internet of Things IoT and CPS Cyber Physical Systems are different from conventional security as concerns revolve around the collection and aggregation of data or transmission of data over the network Analysis of cyber attack vectors and the provision of appropriate mitigation techniques are essential research areas for these systems Adoption of best practices and maintaining a balance between ease of use and security are again crucial for the effective performance of these systems Recent Advances in Security Privacy and Trust for Internet of Things IoT and Cyber Physical Systems CPS discusses and presents techniques and methodologies as well as a wide range of examples and illustrations to effectively show the principles algorithms challenges and applications of security privacy and trust for IoT and CPS Book features Introduces new directions for research development and engineering security privacy and trust of IoT and CPS Includes a wealth of examples and illustrations to effectively demonstrate the principles algorithms challenges and applications Covers most of the important security aspects and current trends not present in other reference books This book will also serve as an excellent reference in security privacy and trust of IoT and CPS for professionals in this fast evolving and critical field The chapters present high quality contributions from researchers academics and practitioners from various national and international organizations and universities

*C2 Re-envisioned* Marius S. Vassiliou, David S. Alberts, Jonathan Russell Agre, 2014-12-08 Command and Control C2 is the set of organizational and technical attributes and processes by

which an enterprise marshals and employs human physical and information resources to solve problems and accomplish missions C2 Re envisioned The Future of the Enterprise identifies four interrelated megatrends that are individually and collectively shaping the state of the art and practice of C2 as well as the mission challenges we face These megatrends the book examines are Big Problems manifested in part as increasing complexity of both endeavors and enterprises as military establishments form coalitions with each other and partnerships with various civilian agencies and non governmental organizations Robustly Networked Environments enabled by the extremely broad availability of advanced information and communications technologies ICT that place unprecedented powers of information creation processing and distribution in the hands of almost anyone who wants them friend and foe alike Ubiquitous Data the unprecedented volumes of raw and processed information with which human actors and C2 systems must contend Organizational alternatives as decentralized net enabled approaches to C2 have been made more feasible by technology The book analyzes historical examples and experimental evidence to determine the critical factors that make C2 go wrong and how to get it right Successful enterprises in the future will be those that can reconfigure their approaches in an agile manner Offering fresh perspectives on this subject of critical importance this book provides the understanding you will need to choose your organizational approaches to suit the mission and the conditions at hand

**International Joint Conference** Álvaro Herrero, Bruno Baruaque, Javier Sedano, Héctor Quintián, Emilio Corchado, 2015-05-31 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at the 8th International Conference on Computational Intelligence in Security for Information Systems CISIS 2015 and the 6th International Conference on European Transnational Education ICEUTE 2015 These conferences were held in the beautiful and historic city of Burgos Spain in June 2015 The aim of the 8th CISIS 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 thorough peer review process the CISIS 2015 International Program Committee selected 43 papers written by authors from 16 different countries In the case of 6th ICEUTE conference the International Program Committee selected 12 papers from 7 countries These papers are published in present conference proceedings achieving an acceptance rate of about 39% The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process This is a crucial process to the creation of a high standard conference and the CISIS and ICEUTE conferences would not exist without their help

**The Internet of Things: Breakthroughs in Research and Practice** Management Association, Information Resources, 2017-02-14 The ubiquity of modern technologies has allowed for increased connectivity between people and devices across the globe This connected infrastructure of networks creates numerous opportunities for applications and uses

The Internet of Things Breakthroughs in Research and Practice is an authoritative reference source for the latest academic material on the interconnectivity of networks and devices in the digital era and examines best practices for integrating this advanced connectivity across multiple fields. Featuring extensive coverage on innovative perspectives such as secure computing, regulatory standards and trust management, this book is ideally designed for engineers, researchers, professionals, graduate students and practitioners seeking scholarly insights on the Internet of Things.

Intelligent Security Systems  
Leon Reznik, 2021-10-19  
INTELLIGENT SECURITY SYSTEMS Dramatically improve your cybersecurity using AI and machine learning. In *Intelligent Security Systems*, distinguished professor and computer scientist Dr. Leon Reznik delivers an expert synthesis of artificial intelligence, machine learning and data science techniques applied to computer security to assist readers in hardening their computer systems against threats. Emphasizing practical and actionable strategies that can be immediately implemented by industry professionals and computer device owners, the author explains how to install and harden firewalls, intrusion detection systems, attack recognition tools and malware protection systems. He also explains how to recognize and counter common hacking activities. This book bridges the gap between cybersecurity education and new data science programs, discussing how cutting edge artificial intelligence and machine learning techniques can work for and against cybersecurity efforts. *Intelligent Security Systems* includes supplementary resources on an author hosted website such as classroom presentation slides, sample review test and exam questions and practice exercises to make the material contained practical and useful. The book also offers a thorough introduction to computer security, artificial intelligence and machine learning, including basic definitions and concepts like threats, vulnerabilities, risks, attacks, protection and tools. An exploration of firewall design and implementation, including firewall types and models, typical designs and configurations and their limitations and problems. Discussions of intrusion detection systems (IDS) including architecture, topologies, components and operational ranges, classification approaches and machine learning techniques in IDS design. A treatment of malware and vulnerabilities, detection and protection, including malware classes, history and development trends. Perfect for undergraduate and graduate students in computer security, computer science and engineering, *Intelligent Security Systems* will also earn a place in the libraries of students and educators in information technology and data science as well as professionals working in those fields.

Border Security, 2015  
United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs, 2016

**Cyber Defense and Situational Awareness**  
Alexander Kott, Cliff Wang, Robert F. Erbacher, 2015-01-05  
This book is the first publication to give a comprehensive, structured treatment to the important topic of situational awareness in cyber defense. It presents the subject in a logical, consistent, continuous discourse covering key topics such as formation of cyber situational awareness, visualization and human factors, automated learning and inference, use of ontologies and metrics, predicting and assessing impact of cyber attacks and achieving resilience of cyber and physical mission. Chapters include case studies, recent research results and practical insights described specifically for this book.

Situational awareness is exceptionally prominent in the field of cyber defense. It involves science, technology, and practice of perception, comprehension, and projection of events and entities in cyber space. Chapters discuss the difficulties of achieving cyber situational awareness along with approaches to overcoming the difficulties in the relatively young field of cyber defense where key phenomena are so unlike the more conventional physical world. Cyber Defense and Situational Awareness is designed as a reference for practitioners of cyber security and developers of technology solutions for cyber defenders. Advanced level students and researchers focused on security of computer networks will also find this book a valuable resource. Proceedings of the 16th International Conference on Hybrid Intelligent Systems (HIS 2016) Ajith

Abraham, Abdelkrim Haqiq, Adel M. Alimi, Ghita Mezzour, Nizar Rokbani, Azah Kamilah Muda, 2017-02-21. This book presents the latest research in hybrid intelligent systems. It includes 57 carefully selected papers from the 16th International Conference on Hybrid Intelligent Systems HIS 2016 and the 8th World Congress on Nature and Biologically Inspired Computing NaBIC 2016 held on November 21-23, 2016 in Marrakech, Morocco. HIS NaBIC 2016 was jointly organized by the Machine Intelligence Research Labs (MIR Labs), USA, Hassan 1st University, Settat, Morocco, and University of Sfax, Tunisia. Hybridization of intelligent systems is a promising research field in modern artificial computational intelligence and is concerned with the development of the next generation of intelligent systems. The conference's main aim is to inspire further exploration of the intriguing potential of hybrid intelligent systems and bio-inspired computing. As such, the book is a valuable resource for practicing engineers, scientists, and researchers working in the field of computational intelligence and artificial intelligence. *International Conference on Security and Privacy in Communication Networks* Jin Tian, Jiwu Jing, Mudhakar Srivatsa, 2015-12-01. This 2-volume set constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Security and Privacy in Communication Networks SecureComm 2014 held in Beijing, China, in September 2014. The 27 regular and 17 short papers presented were carefully reviewed. It also presents 22 papers accepted for four workshops: ATCS, SSS, SLSS, DAPRO, in conjunction with the conference; 6 doctoral symposium papers; and 8 poster papers. The papers are grouped in the following topics: security and privacy in wired/wireless/mobile/hybrid sensor/ad hoc networks; network intrusion detection and prevention; firewalls; packet filters; malware; and distributed denial of service; communication privacy and anonymity; network and internet forensics; techniques; public key infrastructures; key management; credential management; secure routing; naming; addressing; network management; security and privacy in pervasive and ubiquitous computing; security; security isolation in software-defined networking.

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