

# Network Security

**A Decision and  
Game-Theoretic Approach**



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CAMBRIDGE

# Network Security A Decision And Game Theoretic Approach

**Qilian Liang, Wei Wang, Xin Liu, Zhenyu  
Na, Min Jia, Baoju Zhang**



## **Network Security A Decision And Game Theoretic Approach:**

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**Decision and Game Theory for Security** John S. Baras,Jonathan Katz,Eitan Altman,2011-11-11 This book constitutes the refereed proceedings of the Second International Conference on Decision and Game Theory for Security GameSec 2011 held in College Park Maryland USA in November 2011 The 16 revised full papers and 2 plenary keynotes presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on attacks adversaries and game theory wireless adhoc and sensor networks network games security insurance security and trust in social networks and security investments

Decision and Game Theory for Security Tansu Alpcan,Yevgeniy Vorobeychik,John S. Baras,György Dán,2019-10-23 This book constitutes the refereed proceedings of the 10th International Conference on Decision and Game Theory for Security GameSec 2019 held in Stockholm Sweden in October 2019 The 21 full papers presented together with 11 short papers were carefully reviewed and selected from 47 submissions The papers focus on protection of heterogeneous large scale and dynamic cyber physical systems as well as managing security risks faced by critical infrastructures through rigorous and practically relevant analytical methods

**Decision and Game Theory for Security** Arman (MHR) Khouzani,Emmanouil Panaousis,George Theodorakopoulos,2015-11-11 This book constitutes the refereed proceedings of the 6th International Conference on Decision and Game Theory for Security GameSec 2015 held in London UK in November 2015 The 16 revised full papers presented together with 5 short papers were carefully reviewed and selected from 37 submissions Game and decision theory has emerged as a valuable systematic framework with powerful analytical tools in dealing with the intricacies involved in making sound and sensible security decisions For instance game theory provides methodical approaches to account for interdependencies of security decisions the role of hidden and asymmetric information the perception of risks and costs in human behaviour the incentives limitations of the attackers and much more Combined with our classical approach to computer and network security and drawing from various fields such as economic social and behavioural sciences game and decision theory is playing a fundamental role in the development of the pillars of the science of security

**Decision and Game Theory for Security** Radha Poovendran,Walid Saad,2014-10-03 This book constitutes the refereed proceedings of the 5th International Conference on Decision and Game Theory for Security GameSec 2014 held in Los Angeles CA USA in November 2014 The 16 revised full papers presented together with 7 short papers were carefully

reviewed and selected from numerous submissions The covered topics cover multiple facets of cyber security that include rationality of adversary game theoretic cryptographic techniques vulnerability discovery and assessment multi goal security analysis secure computation economic oriented security and surveillance for security Those aspects are covered in a multitude of domains that include networked systems wireless communications border patrol security and control systems

Decision and Game Theory for Security Jie Fu,Tomas Kroupa,Yezekael Hayel,2023-12-28 This book constitutes the refereed proceedings of the 14th International Conference on Decision and Game Theory for Security GameSec 2023 held in Avignon France during October 18 20 2023 The 19 full papers and 4 short papers included in this book were carefully reviewed and selected from 33 submissions They were organized in topical sections as follows Mechanism design and imperfect information Security Games Learning in security games Cyber deception Economics of security Information and privacy and Short articles

Network Security Tansu Alpcan,Tamer Başar,2010-10-21 Covering attack detection malware response algorithm and mechanism design privacy and risk management this comprehensive work applies unique quantitative models derived from decision control and game theories to understanding diverse network security problems It provides the reader with a system level theoretical understanding of network security and is essential reading for researchers interested in a quantitative approach to key incentive and resource allocation issues in the field It also provides practitioners with an analytical foundation that is useful for formalising decision making processes in network security

A Game- and Decision-Theoretic Approach to Resilient Interdependent Network Analysis and Design Juntao Chen,Quanyan Zhu,2019-07-17 This brief introduces game and decision theoretical techniques for the analysis and design of resilient interdependent networks It unites game and decision theory with network science to lay a system theoretical foundation for understanding the resiliency of interdependent and heterogeneous network systems The authors pay particular attention to critical infrastructure systems such as electric power water transportation and communications They discuss how infrastructure networks are becoming increasingly interconnected as the integration of Internet of Things devices and how a single point failure in one network can propagate to other infrastructures creating an enormous social and economic impact The specific topics in the book include static and dynamic meta network resilience game analysis and design optimal control of interdependent epidemics spreading over complex networks and applications to secure and resilient design of critical infrastructures These topics are supported by up to date summaries of the authors recent research findings The authors then discuss the future challenges and directions in the analysis and design of interdependent networks and explain the role of multi disciplinary research has in computer science engineering public policy and social sciences fields of study The brief introduces new application areas in mathematics economics and system and control theory and will be of interest to researchers and practitioners looking for new approaches to assess and mitigate risks in their systems and enhance their network resilience A Game and Decision Theoretic Approach to Resilient Interdependent Network Analysis and Design also

has self contained chapters which allows for multiple levels of reading by anyone with an interest in game and decision theory and network science      *Analysis and Design of Networked Control Systems under Attacks* Yuan Yuan,Hongjiu Yang,Lei Guo,Fuchun Sun,2018-09-21 This book adopts a systematic view of the control systems in cyber physical systems including the security control of the optimal control system security control of the non cooperative game system quantify the impact of the Denial of Service attacks on the optimal control system and the adaptive security control of the networked control systems Because the cyber physical system is a hybrid system it adopts cross layer approach to handle the security control of the CPS It presents a number of attack models according to the attack scenario and defense facilities and a number of cross layer co design methodologies to secure the control of CPS      Network Security Empowered by Artificial Intelligence Yingying Chen,Jie Wu,Paul Yu,Xiaogang Wang,2024-06-25 This book introduces cutting edge methods on security in spectrum management mobile networks and next generation wireless networks in the era of artificial intelligence AI and machine learning ML This book includes four parts a Architecture Innovations and Security in 5G Networks b Security in Artificial Intelligence enabled Intrusion Detection Systems c Attack and Defense in Artificial Intelligence enabled Wireless Systems d Security in Network enabled Applications The first part discusses the architectural innovations and security challenges of 5G networks highlighting novel network structures and strategies to counter vulnerabilities The second part provides a comprehensive analysis of intrusion detection systems and the pivotal role of AI and machine learning in defense and vulnerability assessment The third part focuses on wireless systems where deep learning is explored to enhance wireless communication security The final part broadens the scope examining the applications of these emerging technologies in network enabled fields The advancement of AI ML has led to new opportunities for efficient tactical communication and network systems but also new vulnerabilities Along this direction innovative AI driven solutions such as game theoretic frameworks and zero trust architectures are developed to strengthen defenses against sophisticated cyber threats Adversarial training methods are adopted to augment this security further Simultaneously deep learning techniques are emerging as effective tools for securing wireless communications and improving intrusion detection systems Additionally distributed machine learning exemplified by federated learning is revolutionizing security model training Moreover the integration of AI into network security especially in cyber physical systems demands careful consideration to ensure it aligns with the dynamics of these systems This book is valuable for academics researchers and students in AI ML network security and related fields It serves as a resource for those in computer networks AI ML and data science and can be used as a reference or secondary textbook      **Communications, Signal Processing, and Systems** Qilian Liang,Wei Wang,Xin Liu,Zhenyu Na,Min Jia,Baoju Zhang,2020-04-04 This book brings together papers from the 2019 International Conference on Communications Signal Processing and Systems which was held in Urumqi China on July 20 22 2019 Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging

from communications to signal processing and systems It is chiefly intended for undergraduate and graduate students in electrical engineering computer science and mathematics researchers and engineers from academia and industry as well as government employees

*Game Theory in Wireless and Communication Networks* Zhu Han,2012 This unified 2001 treatment of game theory focuses on finding state of the art solutions to issues surrounding the next generation of wireless and communications networks The key results and tools of game theory are covered as are various real world technologies and a wide range of techniques for modeling design and analysis

Game Theory for Security and Risk Management Stefan Rass,Stefan Schauer,2018-07-06 The chapters in this volume explore how various methods from game theory can be utilized to optimize security and risk management strategies Emphasizing the importance of connecting theory and practice they detail the steps involved in selecting adapting and analyzing game theoretic models in security engineering and provide case studies of successful implementations in different application domains Practitioners who are not experts in game theory and are uncertain about incorporating it into their work will benefit from this resource as well as researchers in applied mathematics and computer science interested in current developments and future directions The first part of the book presents the theoretical basics covering various different game theoretic models related to and suitable for security engineering The second part then shows how these models are adopted implemented and analyzed Surveillance systems interconnected networks and power grids are among the different application areas discussed Finally in the third part case studies from business and industry of successful applications of game theoretic models are presented and the range of applications discussed is expanded to include such areas as cloud computing Internet of Things and water utility networks

Cloud Control Systems Magdi S. Mahmoud,Yuanqing Xia,2020-01-14 Cloud Control Systems Analysis Design and Estimation introduces readers to the basic definitions and various new developments in the growing field of cloud control systems CCS The book begins with an overview of cloud control systems CCS fundamentals which will help beginners to better understand the depth and scope of the field It then discusses current techniques and developments in CCS including event triggered cloud control predictive cloud control fault tolerant and diagnosis cloud control cloud estimation methods and secure control estimation under cyberattacks This book benefits all researchers including professors postgraduate students and engineers who are interested in modern control theory robust control multi agents control Offers insights into the innovative application of cloud computing principles to control and automation systems Provides an overview of cloud control systems CCS fundamentals and introduces current techniques and developments in CCS Investigates distributed denial of service attacks false data injection attacks resilient design under cyberattacks and safety assurance under stealthy cyberattacks

**Cyber Deception** Tiffany Bao,Milind Tambe,Cliff Wang,2023-03-08 This book introduces recent research results for cyber deception a promising field for proactive cyber defense The beauty and challenge of cyber deception is that it is an interdisciplinary research field requiring study from techniques and strategies to human aspects This book covers a

wide variety of cyber deception research including game theory artificial intelligence cognitive science and deception related technology Specifically this book addresses three core elements regarding cyber deception Understanding human s cognitive behaviors in decoyed network scenarios Developing effective deceptive strategies based on human s behaviors Designing deceptive techniques that supports the enforcement of deceptive strategies The research introduced in this book identifies the scientific challenges highlights the complexity and inspires the future research of cyber deception Researchers working in cybersecurity and advanced level computer science students focused on cybersecurity will find this book useful as a reference This book also targets professionals working in cybersecurity Chapter Using Amnesia to Detect Credential Database Breaches and Chapter Deceiving ML Based Friend or Foe Identification for Executables are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](http://springer.com) Small Cell Networks Tony Q. S. Quek,2013-05-02 Explores state of the art advances in the successful deployment and operation of small cell networks

**Theory and Models for Cyber Situation Awareness** Peng Liu,Sushil Jajodia,Cliff Wang,2017-07-05 Today when a security incident happens the top three questions a cyber operation center would ask are What has happened Why did it happen What should I do Answers to the first two questions form the core of Cyber Situation Awareness SA Whether the last question can be satisfactorily addressed is largely dependent upon the cyber situation awareness capability of an enterprise The goal of this book is to present a summary of recent research advances in the development of highly desirable Cyber Situation Awareness capabilities The 8 invited full papers presented in this volume are organized around the following topics computer aided human centric cyber situation awareness computer and information science aspects of the recent advances in cyber situation awareness learning and decision making aspects of the recent advances in cyber situation awareness cognitive science aspects of the recent advances in cyber situation awareness **Advances in Cyber Security and Intelligent Analytics** Abhishek Verma,Jitendra Kumar,Hari Mohan Gaur,Vrijendra Singh,Valentina Emilia Balas,2022-12-21 We live in a digital world where we use digital tools and smart devices to communicate over the Internet In turn an enormous amount of data gets generated The traditional computing architectures are inefficient in storing and managing this massive amount of data Unfortunately the data cannot be ignored as it helps businesses to make better decisions solve problems understand performance improve processes and understand customers Therefore we need modern systems capable of handling and managing data efficiently In the past few decades many distributed computing paradigms have emerged and we have noticed a substantial growth in the applications based on such emerging paradigms Some well known emerging computing paradigms include cloud computing fog computing and edge computing which have leveraged the increase in the volume of data being generated every second However the distributed computing paradigms face critical challenges including network management and cyber security We have witnessed the development of various networking models IoT SDN and ICN to support modern systems requirements However they are undergoing rapid changes and need special

attention The main issue faced by these paradigms is that traditional solutions cannot be directly applied to address the challenges Therefore there is a significant need to develop improved network management and cyber security solutions To this end this book highlights the challenges faced by emerging paradigms and presents the recent developments made to address the challenges More specifically it presents a detailed study on security issues in distributed computing environments and their possible solutions followed by applications of medical IoT deep learning IoV healthcare etc **ICIW 2013 Proceedings of the 8th International Conference on Information Warfare and Security** Doug Hart,2013-03-25

**Applied Cognitive Science and Technology** Sumitava Mukherjee,Varun Dutt,Narayanan Srinivasan,2023-08-23 This book fills the long pending gap in consolidating research on applied cognitive science and technology It explores the broader implications of interactions between human cognition and technology by touching upon artificial intelligence AI and artificial agents decision support and assistance support systems cybersecurity threats computational modeling of cognition through artificial neural networks and machine learning human factors engineering design and social media interfaces With an interdisciplinary scope that addresses psychological and technological issues this unique book shows how cognitive science is furthered by technology or platforms while simultaneously illustrating how the study of cognitive processes is helping shape technological products Accordingly it offers a valuable resource for researchers and practitioners in a broad array of fields such as psychology science engineering and management



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