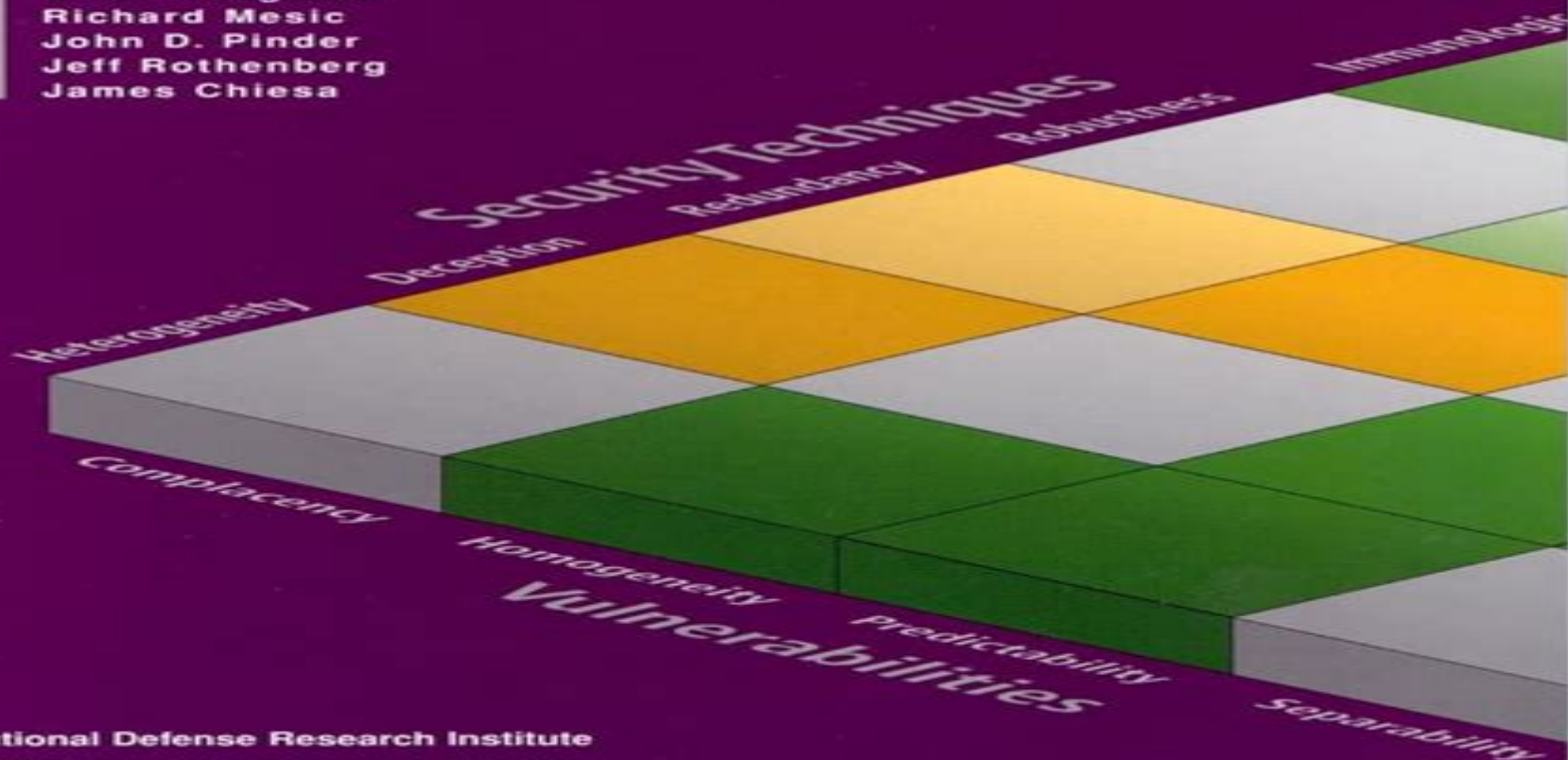


Securing the U.S. Defense Information Infrastructure: A Proposed Approach

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Securing U S Defense Information Infrastructure A Proposed Approach

Ping Zhang, Dennis F. Galletta



Securing U S Defense Information Infrastructure A Proposed Approach:

Securing the U.S. Defense Information Infrastructure: A Proposed Approach, 1999 This report addresses the survivability and assured availability of essential U S information infrastructures especially when they are under various forms of information warfare attack To the best of our knowledge the term minimum essential information infrastructure MEII was coined by one of the authors Mesic as part of the planning for a series of Day After in Cyberspace information warfare exercises conducted from 1995 to the present under the direction of our RAND colleague Roger Molander The idea is that some information infrastructures are so essential that they should be given special attention perhaps in the form of special hardening redundancy rapid recovery or other protection or recovery mechanisms Players in the Day After exercises were intrigued by the MEII concept but asked Is this concept feasible Is it practical For what portions of the Department of Defense and U S infrastructure is the concept relevant What would such infrastructures look like How effective or useful would they be This report documents the findings of the first year of a study of the MEII concept attempting to formulate some initial answers to these questions or if these are not the right questions to ask and answer better ones This report should be of interest to persons responsible for assuring the reliability and availability of essential information systems throughout the U S defense establishment the U S critical infrastructure and other organizations Its findings and recommendations are relevant at all organizational levels from small units to major commands

Information Security and Ethics: Concepts, Methodologies, Tools, and Applications Nemati, Hamid, 2007-09-30 Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the opportunities future challenges and emerging trends related to this subject

Current Security Management & Ethical Issues of Information Technology Rasool Azari, 2003-01-01 This scholarly examination of the ethical issues in information technology management covers basic details such as improving user education and developing security requirements as well as more complicated and far reaching problems such as protecting infrastructure against information warfare Social responsibility is analyzed with global examples and applications including knowledge based society in Latin America socioeconomics factors of technology in the United States and system ethics in the Arab world

Cyber Warfare Sushil Jajodia, Paulo Shakarian, V.S. Subrahmanian, Vipin Swarup, Cliff Wang, 2015-04-09 This book features a wide spectrum of the latest computer science research relating to cyber warfare including military and policy dimensions It is the first book to explore the scientific foundation of cyber warfare and features research from the areas of artificial intelligence game theory programming languages graph theory and more The high level approach and emphasis on scientific rigor provides insights on ways to improve cyber warfare defense worldwide Cyber Warfare Building the Scientific Foundation targets researchers and practitioners working in cyber security especially government employees or contractors

Advanced level students in computer science and electrical engineering with an interest in security will also find this content valuable as a secondary textbook or reference

Human-computer Interaction and Management Information

Systems: Foundations Ping Zhang, Dennis F. Galletta, 2015-03-26 Human Computer Interaction and Management Information Systems Foundations offers state of the art research by a distinguished set of authors who span the MIS and HCI fields The original chapters provide authoritative commentaries and in depth descriptions of research programs that will guide 21st century scholars graduate students and industry professionals Human Computer Interaction or Human Factors in MIS is concerned with the ways humans interact with information technologies and tasks especially in business managerial organizational and cultural contexts It is distinctive in many ways when compared with HCI studies in other disciplines The MIS perspective affords special importance to managerial and organizational contexts by focusing on analysis of tasks and outcomes at a level that considers organizational effectiveness With the recent advancement of technologies and development of many sophisticated applications human centeredness in MIS has become more critical than ever before This book focuses on the basics of HCI with emphasis on concepts issues theories and models that are related to understanding human tasks and the interactions among humans tasks information and technologies in organizational contexts in general

The Nature of War in the Information Age David J. Lonsdale, 2004-06-01 There has been a great deal of speculation recently concerning the likely impact of the Information Age on warfare In this vein much of the Revolution in Military Affairs RMA literature subscribes to the idea that the Information Age will witness a transformation in the very nature of war In this book David Lonsdale puts that notion to the test Using a range of contexts the book sets out to look at whether the classical Clausewitzian theory of the nature of war will retain its validity in this new age The analysis covers the character of the future battlespace the function of command and the much hyped concept of Strategic Information Warfare Finally the book broadens its perspective to examine the nature of Information Power and its implications for geopolitics Through an assessment of both historical and contemporary case studies including the events following September 11 and the recent war in Iraq the author concludes that although the future will see many changes to the conduct of warfare the nature of war as given theoretical form by Clausewitz will remain essentially unchanged

Cyberdeterrence and Cyberwar

Martin C. Libicki, 2009 The protection of cyberspace the information medium has become a vital national interest because of its importance both to the economy and to military power An attacker may tamper with networks to steal information for the money or to disrupt operations Future wars are likely to be carried out in part or perhaps entirely in cyberspace It might therefore seem obvious that maneuvering in cyberspace is like maneuvering in other media but nothing would be more misleading Cyberspace has its own laws for instance it is easy to hide identities and difficult to predict or even understand battle damage and attacks deplete themselves quickly Cyberwar is nothing so much as the manipulation of ambiguity The author explores these in detail and uses the results to address such issues as the pros and cons of counterattack the value of

deterrence and vigilance and other actions the United States and the U S Air Force can take to protect itself in the face of deliberate cyberattack Publisher description **Disruptive Security Technologies with Mobile Code and Peer-to-Peer Networks** R.R. Brooks,2004-11-29 The traditional fortress mentality of system security has proven ineffective to attacks by disruptive technologies This is due largely to their reactive nature Disruptive security technologies on the other hand are proactive in their approach to attacks They allow systems to adapt to incoming threats removing many of the vulnerabilities explo

Finding and Fixing Vulnerabilities in Information Systems Philip S. Anton,Robert H. Anderson,Richard Mesic,Michael Scheiern,2004-02-09 Understanding an organization s reliance on information systems and how to mitigate the vulnerabilities of these systems can be an intimidating challenge especially when considering less well known weaknesses or even unknown vulnerabilities that have not yet been exploited The authors introduce the Vulnerability Assessment and Mitigation methodology a six step process that uses a top down approach to protect against future threats and system failures while mitigating current and past threats and weaknesses

Technology and the Law on the Use of Force Jackson Maogoto,2014-11-13 As governmental and non governmental operations become progressively supported by vast automated systems and electronic data flows attacks of government information infrastructure operations and processes pose a serious threat to economic and military interests In 2007 Estonia suffered a month long cyber assault to its digital infrastructure described in cyberspace as Web War I In 2010 a worm Stuxnet was identified as supervisory control and data acquisition systems at Iran s uranium enrichment plant presumably in an attempt to set back Iran s nuclear programme The dependence upon telecommunications and information infrastructures puts at risk Critical National Infrastructure and is now at the core of national security interests This book takes a detailed look at these new theatres of war and considers their relation to international law on the use of force Except in cases of self defence or with the authorisation of a Security Council Resolution the use of force is prohibited under the UN charter and customary international law However the law of jus ad bellum was developed in a pre digital era where current technological capabilities could not be conceived Jackson Maogoto asks whether the law on the use of force is able to deal with legal disputes likely to arise from modern warfare Key queries include how one defines an armed attack in an age of anti satellite weaponry whether the destruction of a State s vital digital eco system or the blinding of military communication satellites constitutes a threat and how one delimits the threshold that would enliven the right of self defence or retaliatory action The book argues that while technology has leapt ahead the legal framework has failed to adapt rendering States unable to legally defend themselves effectively The book will be of great interest and use to researchers and students of international law the law of armed conflict Information Technology and the law and counter terrorism

Handbook of Scholarly Publications from the Air Force Institute of Technology (AFIT), Volume 1, 2000-2020 Adedeji B. Badiru, Frank W. Ciarallo, Eric G. Mbonimpa,2022-12-20 This handbook represents a collection of previously published technical journal articles of the highest caliber originating from the Air Force Institute of

Technology AFIT The collection will help promote and affirm the leading edge technical publications that have emanated from AFIT for the first time presented as a cohesive collection In its over 100 years of existence AFIT has produced the best technical minds for national defense and has contributed to the advancement of science and technology through technology transfer throughout the nation This handbook fills the need to share the outputs of AFIT that can guide further advancement of technical areas that include cutting edge technologies such as blockchain machine learning additive manufacturing 5G technology navigational tools advanced materials energy efficiency predictive maintenance the internet of things data analytics systems of systems modeling simulation aerospace product development virtual reality resource optimization and operations management There is a limitless vector to how AFIT s technical contributions can impact the society Handbook of Scholarly Publications from the Air Force Institute of Technology AFIT Volume 1 2000 2020 is a great reference for students teachers researchers consultants and practitioners in broad spheres of engineering business industry academia the military and government

Unifying Themes in Complex Systems IV Ali A. Minai,Yaneer Bar-Yam,2008-11-05 In June of 2002 over 500 professors students and researchers met in Boston Massachusetts for the Fourth International Conference on Complex Systems The attendees represented a remarkably diverse collection of fields biology ecology physics engineering computer science economics psychology and sociology The goal of the conference was to encourage cross fertilization between the many disciplines represented and to deepen understanding of the properties common to all complex systems This volume contains 43 papers selected from the more than 200 presented at the conference Topics include cellular automata neurology evolution computer science network dynamics and urban planning About NECSI For over 10 years The New England Complex Systems Institute NECSI has been instrumental in the development of complex systems science and its applications NECSI conducts research education knowledge dissemination and community development around the world for the promotion of the study of complex systems and its application for the betterment of society NECSI hosts the International Conference on Complex Systems and publishes the NECSI Book Series in conjunction with Springer Publishers ALI MINAI is an Affiliate of the New England Complex Systems Institute and an Associate Professor in the Department of Electrical and Computer Engineering and Computer Science at the University of Cincinnati YANEER BAR YAM is President and founder of the New England Complex Systems Institute He is the author of Dynamics of Complex Systems and Making Things Work Solving Complex Problems in a Complex World

Electronic Enterprise: Strategy and Architecture Targowski, Andrew,2003-01-31 Electronic enterprise is the road map to well planned evolution of enterprise complexity with business and system strategies integration through standardized architectures of IT components This work provides a vision for IT leaders with practical solutions for IT implementation

Globalisation and the New Terror David Martin Jones,2004-01-28 Examines trends in new terror understood here to be the capacity of sub state actors to secure religious or politically motivated objectives by violent means Argues that while the use of violence to achieve political ends is scarcely

original what distinguishes new terror is its potential for lethality Australian author *Technology Enabled Transformation of the Public Sector: Advances in E-Government* Weerakkody, Vishanth, 2012-06-30 Electronic Government is continually advancing in topics such as hardware and software technology e government adoption and diffusion e government policy e government planning management e government applications and e government impacts *Technology Enabled Transformation of the Public Sector Advances in E Government* is filled with original research about electronic government and supplies academicians practitioners and professionals with quality applied research results in the field of electronic digital government its applications and impacts on governmental organizations around the world This title effectively and positively provides organizational and managerial directions with greater use and management of electronic digital government technologies in organizations It also epitomizes the research available within e government while exponentially emphasizing the expansiveness of this field *Networks and Netwars* John Arquilla, David Ronfeldt, 2001-11-05 Netwar like cyberwar describes a new spectrum of conflict that is emerging in the wake of the information revolution Netwar includes conflicts waged on the one hand by terrorists criminals gangs and ethnic extremists and by civil society activists such as cyber activists or WTO protestors on the other What distinguishes netwar is the networked organizational structure of its practitioners with many groups actually being leaderless and their quickness in coming together in swarming attacks To confront this new type of conflict it is crucial for governments military and law enforcement to begin networking themselves

Issues & Trends of Information Technology Management in Contemporary Organizations Information Resources Management Association. International Conference, 2002-01-01 As the field of information technology continues to grow and expand it impacts more and more organizations worldwide The leaders within these organizations are challenged on a continuous basis to develop and implement programs that successfully apply information technology applications This is a collection of unique perspectives on the issues surrounding IT in organizations and the ways in which these issues are addressed This valuable book is a compilation of the latest research in the area of IT utilization and management

Information Security and Ethics Hamid R. Nemati, 2008 This compilation serves as the ultimate source on all theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices to meet these challenges Provided by publisher *Girlhood and the Plastic Image* Heather Warren-Crow, 2014-06-03 You are girlish our images tell us You are plastic *Girlhood and the Plastic Image* explains how revealing the increasing girlishness of contemporary media The figure of the girl has long been prized for its mutability for the assumed instability and flexibility of the not yet woman The plasticity of girlish identity has met its match in the plastic world of digital art and cinema A richly satisfying interdisciplinary study showing girlish transformation to be a widespread condition of mediation *Girlhood and the Plastic Image* explores how and why our images promise us the adaptability of youth This original and engaging study will appeal to a broad interdisciplinary audience including scholars of

media studies film studies art history and women s studies

Critical Infrastructure Protection XIII Jason Staggs, Sujeet

Shenoi, 2019-11-18 The information infrastructure comprising computers embedded devices networks and software systems is vital to operations in every sector chemicals commercial facilities communications critical manufacturing dams defense industrial base emergency services energy financial services food and agriculture government facilities healthcare and public health information technology nuclear reactors materials and waste transportation systems and water and wastewater systems Global business and industry governments indeed society itself cannot function if major components of the critical information infrastructure are degraded disabled or destroyed Critical Infrastructure Protection XIII describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection Also it highlights the importance of weaving science technology and policy in crafting sophisticated yet practical solutions that will help secure information computer and network assets in the various critical infrastructure sectors Areas of coverage include Themes and Issues Infrastructure Protection Vehicle Infrastructure Security Telecommunications Infrastructure Security Cyber Physical Systems Security and Industrial Control Systems Security This book is the thirteenth volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 10 on Critical Infrastructure Protection an international community of scientists engineers practitioners and policy makers dedicated to advancing research development and implementation efforts focused on infrastructure protection The book contains a selection of sixteen edited papers from the Thirteenth Annual IFIP WG 11 10 International Conference on Critical Infrastructure Protection held at SRI International Arlington Virginia USA in the spring of 2019 Critical Infrastructure Protection XIII is an important resource for researchers faculty members and graduate students as well as for policy makers practitioners and other individuals with interests in homeland security

This book delves into Securing U S Defense Information Infrastructure A Proposed Approach. Securing U S Defense Information Infrastructure A Proposed Approach is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Securing U S Defense Information Infrastructure A Proposed Approach, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Securing U S Defense Information Infrastructure A Proposed Approach
 - Chapter 2: Essential Elements of Securing U S Defense Information Infrastructure A Proposed Approach
 - Chapter 3: Securing U S Defense Information Infrastructure A Proposed Approach in Everyday Life
 - Chapter 4: Securing U S Defense Information Infrastructure A Proposed Approach in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Securing U S Defense Information Infrastructure A Proposed Approach. This chapter will explore what Securing U S Defense Information Infrastructure A Proposed Approach is, why Securing U S Defense Information Infrastructure A Proposed Approach is vital, and how to effectively learn about Securing U S Defense Information Infrastructure A Proposed Approach.
 3. In chapter 2, the author will delve into the foundational concepts of Securing U S Defense Information Infrastructure A Proposed Approach. The second chapter will elucidate the essential principles that must be understood to grasp Securing U S Defense Information Infrastructure A Proposed Approach in its entirety.
 4. In chapter 3, this book will examine the practical applications of Securing U S Defense Information Infrastructure A Proposed Approach in daily life. This chapter will showcase real-world examples of how Securing U S Defense Information Infrastructure A Proposed Approach can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Securing U S Defense Information Infrastructure A Proposed Approach in specific contexts. The fourth chapter will explore how Securing U S Defense Information Infrastructure A Proposed Approach is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Securing U S Defense Information Infrastructure A Proposed Approach. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Securing U S Defense Information Infrastructure A Proposed Approach.

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