ROUTLEDGE STUDIES IN CONFLICT. SECURITY AND TECHNOLOGY

## Cyber Warfare

A multidisciplinary analysis

Edited by James A. Green



Zhe Xu

Cyber Warfare James A. Green, 2015-05-22 This book is a multi disciplinary analysis of cyber warfare featuring contributions by leading experts from a mixture of academic and professional backgrounds Cyber warfare meaning interstate cyber aggression is an increasingly important emerging phenomenon in international relations with state orchestrated or apparently state orchestrated computer network attacks occurring in Estonia 2007 Georgia 2008 and Iran 2010 This method of waging warfare given its potential to for example make planes fall from the sky or cause nuclear power plants to melt down has the capacity to be as devastating as any conventional means of conducting armed conflict Every state in the world now has a cyber defence programme and over 120 states also have a cyber attack programme While the amount of literature on cyber warfare is growing within disciplines our understanding of the subject has been limited by a lack of cross disciplinary engagement In response this book drawn from the fields of computer science military strategy international law political science and military ethics provides a critical overview of cyber warfare for those approaching the topic from whatever angle Chapters consider the emergence of the phenomena of cyber warfare in international affairs what cyber attacks are from a technological standpoint the extent to which cyber attacks can be attributed to state actors the strategic value and danger posed by cyber conflict the legal regulation of cyber attacks both as international uses of force and as part of an on going armed conflict and the ethical implications of cyber warfare This book will be of great interest to students of cyber warfare cyber security military ethics international law security studies and IR in general Conflict in Cyber Space Karsten Friis, Jens Ringsmose, 2016-03-31 Adopting a multidisciplinary perspective this book explores the key challenges associated with the proliferation of cyber capabilities Over the past two decades a new man made domain of conflict has materialized Alongside armed conflict in the domains of land sea air and space hostilities between different types of political actors are now taking place in cyberspace This volume addresses the challenges posed by cyberspace hostility from theoretical political strategic and legal perspectives In doing so and in contrast to current literature cyber security is analysed through a multidimensional lens as opposed to being treated solely as a military or criminal issues for example The individual chapters map out the different scholarly and political positions associated with various key aspects of cyber conflict and seek to answer the following questions do existing theories provide sufficient answers to the current challenges posed by conflict in cyberspace and if not could alternative approaches be developed how do states and non state actors make use of cyber weapons when pursuing strategic and political aims and how does the advent of conflict in cyberspace challenge our established legal framework By asking important strategic questions on the theoretical strategic ethical and legal implications and challenges of the proliferation of cyber warfare capabilities the book seeks to stimulate research into an area that has hitherto been neglected This book will be of much interest to students of cyber conflict and cyber warfare war and conflict studies international relations and security studies *International Conflict and Cyberspace Superiority* 

William D. Bryant,2015-07-30 This book examines cyberspace superiority in nation state conflict from both a theoretical and a practical perspective This volume analyses superiority concepts from the domains of land maritime and air to build a model that can be applied to cyberspace Eight different cyberspace conflicts between nation states are examined and the resulting analysis is combined with theoretical concepts to present the reader with a conclusion Case studies include the conflict between Russia and Estonia 2007 North Korea and the US and South Korea 2009 and Saudi Arabia and Iran in the Aramco attack 2012 The book uses these case studies to examine cyberspace superiority as an analytical framework to understand conflict in this domain between nation states Furthermore the book makes the important distinction between local and universal domain superiority and presents a unique model to relate this superiority in all domains as well as a more detailed model of local superiority in cyberspace Through examining the eight case studies the book develops a rigorous system to measure the amount of cyberspace superiority achieved by a combatant in a conflict and seeks to reveal if cyberspace superiority proves to be a significant advantage for military operations at the tactical operational and strategic levels This book will be of much interest to students of cyber conflict strategic studies national security foreign policy and IR in general

Cybersecurity Discourse in the United States Sean T. Lawson, 2019-12-05 This book examines the role of cyber doom rhetoric in the U S cybersecurity debate For more than two decades fear of cyber doom scenarios i e cyberattacks against critical infrastructure resulting in catastrophic physical social and economic impacts has been a persistent feature of the U S cybersecurity debate This is despite the fact that no cyberattack has come close to realizing such impacts This book argues that such scenarios are part of a broader rhetoric of cyber doom within the U S cybersecurity debate and takes a multidisciplinary approach that draws on research in history sociology communication psychology and political science It identifies a number of variations of cyber doom rhetoric then places them into a larger historical context assesses how realistic the fears expressed in such rhetoric are and finally draws out the policy implications of relying on these fears to structure our response to cybersecurity challenges The United States faces very real cybersecurity challenges that are nonetheless much less dramatic than what is implied in the rhetoric This book argues that relying on cyber doom rhetoric to frame our thinking about such threats is counterproductive and encourages us to develop ways of thinking and speaking about cybersecurity beyond cyber doom This book will be of much interest to students of cybersecurity foreign policy public administration national security and international relations in general The Politics of Humanitarian Technology Katja Lindskov Jacobsen, 2015-06-05 This book offers a detailed exploration of three examples of humanitarian uses of new technology employing key theoretical insights from Foucault We are currently seeing a humanitarian turn to new digital technologies such as biometrics remote sensing and surveillance drones However such humanitarian uses of new technology have not always produced beneficial results for those at the receiving end and have sometimes exposed the subjects of assistance to additional risks and insecurities Engaging with key insights from the work of Foucault combined with selected

concepts from the Science and Technology Studies literature this book produces an analytical framework that opens up the analysis to details of power and control at the level of materiality that are often ignored in liberal histories of war and modernity Whereas Foucault details the design of prisons factories schools etc this book is original in its use of his work in that it uses these key insights about the details of power embedded in material design but shifts the attention to the technologies and attending forms of power that have been experimented with in the three humanitarian endeavours presented in the book In doing so the book provides new information about aspects of liberal humanitarianism that contemporary critical analyses have largely neglected This book will be of interest to students of humanitarian studies peace and conflict studies critical security studies and IR in general Computer Security Javier Lopez, Jianving Zhou, Miguel Soriano, 2018-08-06 The two volume set LNCS 11098 and LNCS 11099 constitutes the refereed proceedings of the 23nd European Symposium on Research in Computer Security ESORICS 2018 held in Barcelona Spain in September 2018 The 56 revised full papers presented were carefully reviewed and selected from 283 submissions. The papers address issues such as software security blockchain and machine learning hardware security attacks malware and vulnerabilities protocol security privacy CPS and IoT security mobile security database and web security cloud security applied crypto multi party computation SDN security US National Cybersecurity Damien Van Puyvelde, Aaron Brantly, 2017-07-20 This volume explores the contemporary challenges to US national cybersecurity Taking stock of the field it features contributions by leading experts working at the intersection between academia and government and offers a unique overview of some of the latest debates about national cybersecurity These contributions showcase the diversity of approaches and issues shaping contemporary understandings of cybersecurity in the West such as deterrence and governance cyber intelligence and big data international cooperation and public private collaboration. The volume s main contribution lies in its effort to settle the field around three main themes exploring the international politics concepts and organization of contemporary cybersecurity from a US perspective Related to these themes this volume pinpoints three pressing challenges US decision makers and their allies currently face as they attempt to govern cyberspace maintaining international order solving conceptual puzzles to harness the modern information environment and coordinating the efforts of diverse partners. The volume will be of much interest to students of cybersecurity defense studies strategic studies security studies and IR in general Myths and Realities of Cyber Warfare Nicholas Michael Sambaluk, 2020-03-01 This illuminating book examines and refines the commonplace wisdom about cyber conflict its effects character and implications for national and individual security in the 21st century Cyber warfare evokes different images to different people This book deals with the technological aspects denoted by cyber and also with the information operations connected to social media s role in digital struggle The author discusses numerous mythologies about cyber warfare including its presumptively instantaneous speed that it makes distance and location irrelevant and that victims of cyber attacks deserve blame for not defending adequately against attacks The

author outlines why several widespread beliefs about cyber weapons need modification and suggests more nuanced and contextualized conclusions about how cyber domain hostility impacts conflict in the modern world After distinguishing between the nature of warfare and the character of wars chapters will probe the widespread assumptions about cyber weapons themselves The second half of the book explores the role of social media and the consequences of the digital realm being a battlespace in 21st century conflicts The book also considers how trends in computing and cyber conflict impact security affairs as well as the practicality of people's relationships with institutions and trends ranging from democracy to the Internet of Things ICCWS 2015 10th International Conference on Cyber Warfare and Security Jannie Zaaiman, Louise Leenan, 2015-02-24 These Proceedings are the work of researchers contributing to the 10th International Conference on Cyber Warfare and Security ICCWS 2015 co hosted this year by the University of Venda and The Council for Scientific and Industrial Research The conference is being held at the Kruger National Park South Africa on the 24 25 March 2015 The Conference Chair is Dr Jannie Zaaiman from the University of Venda South Africa and the Programme Chair is Dr Louise Leenen from the Council for Scientific and Industrial Research South Africa ECCWS 2021 20th European Conference on Cyber Warfare and Security Dr Thaddeus Eze, 2021-06-24 Conferences Proceedings of 20th European Conference on Cyber Warfare and Security

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