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Arming Cyberspace: The Militarization of a Virtual Domain

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Dotmil The Militarization Of Cyberspace

**U. S. Military, Department of Defense
(DoD), U. S. Army, Michael McFerron, U.
S. Government**

Dotmil The Militarization Of Cyberspace:

Cyber Warfare Paul J. Springer, 2020-07-08 Providing an invaluable introductory resource for students studying cyber warfare this book highlights the evolution of cyber conflict in modern times through dozens of key primary source documents related to its development and implementation This meticulously curated primary source collection is designed to offer a broad examination of key documents related to cyber warfare covering the subject from multiple perspectives The earliest documents date from the late 20th century when the concept and possibility of cyber attacks became a reality while the most recent documents are from 2019 Each document is accompanied by an introduction and analysis written by an expert in the field that provides the necessary context for readers to learn about the complexities of cyber warfare The title s nearly 100 documents are drawn primarily but not exclusively from government sources and allow readers to understand how policy strategy doctrine and tactics of cyber warfare are created and devised particularly in the United States Although the U S is the global leader in cyber capabilities and is largely driving the determination of norms within the cyber domain the title additionally contains a small number of international documents This invaluable work will serve as an excellent starting point for anyone seeking to understand the nature and character of international cyber warfare

What Should the

Department of Defense's Role in Cyber Be? United States. Congress. House. Committee on Armed Services. Subcommittee on Emerging Threats and Capabilities, 2011

Technogeopolitics of Militarization and Security in Cyberspace Panayotis Yannakogeorgos, 2009 Based on democratic principles that encourage creation and transmission of information and knowledge using information and communication technologies the Information Society has become the organizing paradigm for a digital age Humans residing in digital rich regions of the world rely on cyberspace the Information Society s enabling environment for their business commerce education socialization Governments and industry are migrating their critical processes into this domain These trends will intensify as more people realize cyberspace s utility However the promises of the Information Society may never transpire since there is a lack of trust and security in cyberspace These two concepts are the foundation on which the utility of inter networked ICTs such as the Internet are built The increasing rate in the occurrence and sophistication of cybercrimes erodes users trust in subscribing to networked services Further the militarization of cyberspace by states as a new domain through which they conduct their operations also presents challenges to the Information Society Both crime and conflict in cyberspace erode trust in digital networks The development of a comprehensive international law for cyberspace is essential to govern state and non state actor behavior in this global commonage The formation of the World Summit on the Information Society WSIS in the early twenty first century marks the first time that state and non state actors convened to develop plans of action to guide the development of in the digital world This project examines the negotiating positions of the United States Russia and China in the area of cybersecurity through the lens of technogeopolitics It is shown how the political and military interests of each affect their negotiating positions in

the WSIS The methods of content analyses on material from diplomatic archives participant observation at international conferences and interview surveys of participants at these conferences are used to investigate the reasons why decision are made or not made in the field of international cybersecurity cooperation Redefining Information Warfare Boundaries for an Army in a Wireless World Isaac Porche, Christopher Paul, Michael York, Chad C. Serena, Jerry M. Sollinger, 2013 In the U S Army as elsewhere transmission of digitized packets on Internet protocol and space based networks is rapidly supplanting the use of old technology e g dedicated analog channels when it comes to information sharing and media broadcasting As the Army moves forward with these changes it will be important to identify the implications and potential boundaries of cyberspace operations An examination of network operations information operations and the more focused areas of electronic warfare signals intelligence electromagnetic spectrum operations public affairs and psychological operations in the U S military found significant overlap that could inform the development of future Army doctrine in these areas In clarifying the prevailing boundaries between these areas of interest it is possible to predict the progression of these boundaries in the near future The investigation also entailed developing new definitions that better capture this overlap for such concepts as information warfare This is important because the Army is now studying ways to apply its cyber power and is reconsidering doctrinally defined areas that are integral to operations in cyberspace It will also be critical for the Army to approach information operations with a plan to organize and if possible consolidate its operations in two realms the psychological which is focused on message content and people and the technological which is focused on content delivery and machines Page 4 of cover Militarization of Cyberspace: Cyber-Related Provisions in the National Defense Authorization Act Michael Garcia, 2022 **Military Cyberspace** U.s. Army War College, 2014-06-25 The evolution of communications networks into the cyber warfighting domain presents challenges across the doctrine organization training materiel personnel and facilities DOTMLPF spectrum The Department of Defense DOD created new joint and service headquarters to address these challenges and to address the cyberspace risks to national security While these headquarters have been able to make some progress in addressing cyber challenges the current DOD approach to cyber depends on antiquated doctrinal concepts mission command constructs and indefensible network architectures No single organization in the DOD has the responsibility to build operate and defend cyber networks The lack of a clear cyber chain of command greatly hinders cyberspace operations Also the current DOD network architecture is so complex that military cyberspace is indefensible Compounding these problems the current service centric cyber approach is extremely inefficient Can a DOD enterprise approach to cyberspace correct these deficiencies effectively support the GCCs and enable USCYBERCOM to accomplish its mission **The Decision to Attack** Aaron Franklin Brantly, 2016-04-15 The debate over cyber technology has resulted in new considerations for national security operations States find themselves in an increasingly interconnected world with a diverse threat spectrum and little understanding of how decisions are made within this amorphous domain With

The Decision to Attack Aaron Franklin Brantly investigates how states decide to employ cyber in military and intelligence operations against other states and how rational those decisions are In his examination Brantly contextualizes broader cyber decision making processes into a systematic expected utility rational choice approach to provide a mathematical understanding of the use of cyber weapons at the state level Discussed The Key Concepts of Cyber The Motivation and Utility for Covert Action Digital Power Anonymity and Attribution in Cyberspace Cyber and Conventional Operations The Dynamics of Conflict Defining the Role of Intelligence in Cyberspace How Actors Decide to Use Cyber a Rational Choice Approach Cognitive Processes and Decision Making in Cyberspace Finding Meaning in the Expected Utility of International Cyber Conflict **Cyberwarfare: Information Operations in a Connected World** Mike Chapple, David Seidl, 2021-10-11

Cyberwarfare Information Operations in a Connected World puts students on the real world battlefield of cyberspace It reviews the role that cyberwarfare plays in modern military operations operations in which it has become almost impossible to separate cyberwarfare from traditional warfare *No Shortcuts* Max Smeets, 2022-08-01 Over the past decade numerous states have declared cyberspace as a new domain of warfare sought to develop a military cyber strategy and establish a cyber command These developments have led to much policy talk and concern about the future of warfare as well as the digital vulnerability of society No Shortcuts provides a level headed view of where we are in the militarization of cyberspace In this book Max Smeets bridges the divide between technology and policy to assess the necessary building blocks for states to develop a military cyber capacity Smeets argues that for many states the barriers to entry into conflict in cyberspace are currently too high Accompanied by a wide range of empirical examples Smeets shows why governments abilities to develop military cyber capabilities might change over time and explains the limits of capability transfer by states and private actors

Wired Fast and Thinking Slow: Cyber Technology and the U.S. Army - Increase in Speed and Quantity of Social Transactions, Inadequate Coverage of Imp U. S. Military, Department Of Defense (Dod), U. S. Army, 2018-10-05 Understanding the impacts of cyber technologies on war and warfare is increasingly critical for a planner s ability to design and execute operational art The purpose of this monograph is to examine how the U S Army describes cyberspace and the effects that cyber technologies have on military strategy and operational planning writ large The work specifically examines how cyberspace increases the speed and quantity of social transactions over space with effects on military and social forces Secondly it addresses how the Army recognizes the impact of cyber technology on identity formation and virtual identity of both friendly and enemy actors The author concludes that society s and the Army s increasing dependence and activity in cyberspace marks a change in warfare that the Army has been slow to accept Inadequate coverage of the implications of cyberspace throughout doctrine combined with insufficient emphasis in professional military education and training may limit the Army s potential in all levels of war Throughout recorded history individuals and societies have had a fascination and a complex relationship with technology Carl Sandberg s poem Under a Telephone Pole is one such example from the

twentieth century The work personifies a telephone wire as being aware of its disparate uses **Defending Cyberspace and Other Metaphors**, 1997 Information warfare as any casual observer of the Pentagon can attest remains a hot button topic in the military community Broader claims for it have been toned down and few now argue that all aspects of warfare are now revealed as information warfare but an ideology of information warfare has nevertheless wended its way into the heart of defense planning The Air Force's Cornerstones of Information Warfare for example has approached the status of doctrine The spring 1996 establishment of the 609th Squadron at Shaw Air Force Base dedicated to information warfare offers further evidence of the seriousness with which that ideology is maintained In 1996 the National Defense University NDU ended its two year experiment of offering a forty four week program on Information Warfare and Strategy after forty eight students were graduated but what has replaced it is a broader thrust in teaching the all four hundred students the rudiments of information warfare and offering related electives In 1995 96 large portions of the Defense budget were designated information operations although only a small portion represents information warfare @WAR Shane Harris, 2014 An investigation into how the Pentagon NSA and other government agencies are uniting with corporations to fight in cyberspace the next great theater of war **Military Cyberspace** Kurt Schosek, Army War College (U.S.), 2012 The evolution of communications networks into the cyber warfighting domain presents challenges across the doctrine organization training materiel personnel and facilities DOTMLPF spectrum The Department of Defense DOD created new joint and service headquarters to address these challenges and to address the cyberspace risks to national security While these headquarters have been able to make some progress in addressing cyber challenges the current DOD approach to cyber depends on antiquated doctrinal concepts mission command constructs and indefensible network architectures No single organization in the DOD has the responsibility to build operate and defend cyber networks The lack of a clear cyber chain of command greatly hinders cyberspace operations Also the current DOD network architecture is so complex that military cyberspace is indefensible Compounding these problems the current service centric cyber approach is extremely inefficient Can a DOD enterprise approach to cyberspace correct these deficiencies effectively support the GCCs and enable USCYBERCOM to accomplish its mission *Encyclopedia of Cyber Warfare* Paul J. Springer, 2025-01-09 This volume offers a concise overview of cyber warfare providing historical context and an examination of its rapid development into a potent technological weapon of the 21st century Ready reference entries profile key individuals organizations technologies and cyberattack events Readers will also discover a curated selection of relevant primary source documents with insightful analyses A chronology cross references at the end of each entry and a guide to related topics help readers discover and navigate content and form a more robust conceptual framework of the subject Entry specific further readings and an end of volume bibliography point readers toward additional resources and serve as a gateway to further learning This second edition features more than 30 new entries including coverage of recent high profile events such as cyberattacks during the

COVID 19 pandemic and the Russo Ukrainian War Other new entries examine the development and potential cybersecurity impacts of artificial intelligence cryptocurrency ransomware and other emerging technologies The documents section includes 7 new primary sources offering perspectives from the U S government European Union People s Republic of China and others Updates to entries the chronology further readings and the end of volume bibliography capture the significant developments of this ever evolving topic This new volume continues the expert scholarship of the first edition of Encyclopedia of Cyber Warfare which was named a Top Ten Reference by Booklist in 2018

Conflict in the 21st Century Nicholas Michael Sambaluk, 2019-08-08 This reference work examines how sophisticated cyber attacks and innovative use of social media have changed conflict in the digital realm while new military technologies such as drones and robotic weaponry continue to have an impact on modern warfare Cyber warfare social media and the latest military weapons are transforming the character of modern conflicts This book explains how through overview essays written by an award winning author of military history and technology topics in addition to more than 200 entries dealing with specific examples of digital and physical technologies categorized by their relationship to cyber warfare social media and physical technology areas Individually these technologies are having a profound impact on modern conflicts cumulatively they are dynamically transforming the character of conflicts in the modern world The book begins with a comprehensive overview essay on cyber warfare and a large section of A Z reference entries related to this topic The same detailed coverage is given to both social media and technology as they relate to conflict in the 21st century Each of the three sections also includes an expansive bibliography that serves as a gateway for further research on these topics The book ends with a detailed chronology that helps readers place all the key events in these areas

Flying and Fighting in Cyberspace Sebastian M. Convertino II, Sebastian MConvertino II Lieutenant , USAF, Lou Anne DeMattei Defense Intelligence Agency, Tammy M. Knierim, Tammy M Knierim Lieutenant , USAF, 2011-11-01 On 5 December 2005 the Air Force expanded its mission to include a new domain of war fighting to fly and fight in Air Space and Cyberspace When the Air Force claimed cyberspace as part of its mission it not only acknowledged the changing terrain of conflict and a shift in tactics of would be adversaries but also surprised many in uniform who wondered what the move implied By changing its mission statement the Air Force sparked considerable debate on the extent to which cyberspace would dominate roles missions and the budget To organize for this task the Air Force established a new operational command for cyberspace on 6 September 2006 designating Eighth Air Force as the new Cyber Command The Air Force has determined that cyberspace is fundamental to every aspect of war fighting at all levels of operations and it is seriously engaged in developing cyber capabilities However the study s authors argue that the Air Force needs to clearly articulate what Airmen do in cyberspace and how they do it as war fighters Furthermore the long lead time to formalize and standardize cyberspace operating concepts and definitions recognizes the complexity and a of cyberspace as a military operational domain It also has resulted in a lack of conceptual and doctrinal clarity and consensus on the ends

ways and means of operating in cyberspace as well as an unfocused foundation upon which to plan strategy build and organize forces and find resources The study contends that before the Air Force can lead in cyberspace it must first understand cyber conditions threats and vulnerabilities and clearly define how and where it can contribute to national cyberspace strategy Furthermore the Air Force must work toward consensus within the defense community on standardizing cyberspace definitions doctrine and operating concepts Until these issues are fully addressed the authors contend that the ability of the Air Force to develop deliver and employ sovereign and advantageous cyber operations will remain encumbered In support of Eighth Air Force requirements and the new Cyber Command the study concludes with critical recommendations to enable the Air Force to effectively fly and fight in cyberspace 1 The Air Force needs a clearly articulated cyberspace operating concept hardware and software tools and a dedicated trained Cyber Warfare Corps 2 The Air Force should clearly define and distinguish the military operations and effects it expects to achieve with the signals data information knowledge and intelligence flowing through and resident in cyberspace 3 The Air Force should understand the current US cyber situation including cyber conditions threats and vulnerabilities 4 The Air Force should select and systematically apply a methodology sensitive to the technology and transformation forces flowing from the information revolution in order to successfully plan strategy build and organize forces and resource its actions in cyberspace 5 The Air Force should institutionalize cyber mindedness and organize innovatively to successfully build capability and capacity for operating in cyberspace This study argues that these actions taken together will go a long way toward enabling war fighters to plan and execute cyber tasks apply cyber capabilities and integrate operations in cyberspace with military capabilities executed in the traditional war fighting domains As with all other Maxwell Papers this study is provided in the spirit of academic freedom and is open to debate and serious discussion of issues We encourage your response *Cyber Warfare* Sanjeev Relia,2015-11-01 Each era brings with it new techniques and methods of waging a war While military scholars and experts have mastered land sea air and space warfare time has come that they studied the art of cyberwar too Our neighbours have acquired the capabilities to undertake this new form of asymmetric form of warfare India too therefore needs to acquire the capabilities to counter their threat Cyber space seems to have invaded every aspect of our life More and more systems whether public or private are getting automated and networked This high dependence of our critical infrastructure on Information and Communication Technology exposes it to the vulnerabilities of cyberspace Enemy now can target such infrastructure through the cyberspace and degrade destroy them This implies that the critical information infrastructure of the country and military networks today are both equally vulnerable to enemy s cyberattacks India therefore must protect its critical information infrastructure as she would protect the military infrastructure in the battlefield Public Private Partnership model is the only model which would succeed in doing so While the Government needs to lay down the policies and frame the right laws private sector needs to invest into cyber security Organisations at national level and at the

level of armed forces need to be raised which can protect our assets and are also capable of undertaking offensive cyber operations This book is an attempt to understand various nuances of cyber warfare and how it affects our national security Based on the cyber threat environment the books recommends a framework of cyber doctrine and cyber strategies as well as organisational structure of various organisations which a nation needs to invest in

Weaponizing Cyberspace Nicholas Michael Sambaluk,2022-02-04 The Russian regime s struggle for internal control drives multifaceted actions in cyberspace that do not stop at national borders Cybercrime technical hacking and disinformation are complementary tools to preserve national power internally while projecting effects onto myriad neighbors and rivals Russian activity in the cyber domain is infamous in the United States and other Western countries Weaponizing Cyberspace explores the Russian proclivity particularly in the 21st century for using cyberspace as an environment in which to launch technical attacks and disinformation campaigns that sow chaos and distraction in ways that provide short term advantage to autocrats in the Kremlin Arguing that Russia s goal is to divide people Sambaluk explains that Russia s modus operandi in disinformation campaigning is specifically to find and exploit existing sore spots in other countries In the U S this often means inflaming political tensions among people on the far left and far right Russia s actions have taken different forms including the sophisticated surveillance and sabotage of critical infrastructure the ransoming of data by criminal groups and a welter of often mutually contradictory disinformation messages that pollute online discourse within and beyond Russia Whether deployed to contribute to hybrid war or to psychological fracture and disillusionment in targeted societies the threat is real and must be understood and effectively addressed

Looking Back to the Future of Cyberspace Warfare - Case Studies of Military Operations, Russian Attack on Georgia, U. S. Surge in Iraq, Attack on Iran Nuclear Facility, Land, Maritime, Air Theories U. S. Military,Department of Defense (DoD),U. S. Army,Michael McFerron,U. S. Government,2018-10-20 To some the term cyberspace is a daunting term For U S military leaders cyberspace needs to be embraced and understood in order to effectively integrate the capabilities offered in and through cyberspace with all military operations Cyberspace should be viewed as another domain in which to operate in other words a different or additional battlespace Cyberspace should also be viewed as providing additional capabilities to military leaders to conduct warfare By embracing understanding and integrating cyberspace military leaders have additional actions to sequence in time space and purpose in order to reach desired strategic objectives Some define this sequencing of actions as operational art There is current U S military doctrine describing the integration of cyberspace into military operations but the doctrine is not routinely practiced or understood Instead cyberspace is normally treated as a niche subject that is hard to comprehend On the other end of the spectrum there are those that view cyberspace as the primary means of waging future conflicts with the term cyberwar being used By analyzing history and the evolution of military theory in other military domains one can see connections to the way in which cyberspace is evolving as well In order to integrate military actions in all domains toward a strategic goal it is imperative to

understand the idea of operational art Operational art is the connection between strategy and tactical actions More specifically operational art entails sequencing tactical actions in time space and purpose to meet strategic objectives In contemporary times this will include actions carried out in cyberspace Cyberspace capabilities as presented in Joint Publication JP 3 12 are limited in military operations because they are not routinely practiced or understood Most operational level planners feel the capabilities are too complex or incorrectly believe that they do not have the authority to employ cyber weapons in current operations 4 Therefore demonstration of operational art in and through cyberspace is limited or nonexistent The U S military trains personnel focused on conducting tactical actions in the cyberspace domain but education in this domain remains a niche subject at military service level schools essentially ignored in pursuit of more traditional subjects 5 More emphasis is required at the service level schools allowing the U S military to advance the integration of cyberspace as well as better educate military leaders on national capabilities available to support these operations Education at service level schools should provide the link between tactical actions and strategic objectives in order to advance the practice of operational art Training education and doctrine in other domains have gone through their own maturity process before full integration into combined arms operations The advancement of doctrine and complete integration of cyberspace will produce enhanced results in the conduct of all future military operations

The Land, Space, and Cyberspace Nexus: Evolution of the Oldest Military Operations in the Newest Military Domains Jeffrey L. Caton, 2018-03-27 Over the last century the domains of air space and cyberspace have joined the traditional warfighting domains of land and sea While the doctrine for land operations is relatively mature the doctrine for space and cyberspace continue to evolve often in an unstructured manner This monograph examines the relationships among these domains and how they apply to U S Army and joint warfighting It concentrates on the central question How are U S military operations in the newest domains of space and cyberspace being integrated with operations in the traditional domain of land This inquiry is divided into three major sections Existing Doctrine This section presents an overview of the current state of joint and U S Army doctrinal development for each of the domains of land space and cyberspace Operations in Multiple Domains This section examines the concept of cross domain synergy and its ability to enhance globally integrated operations Future Operations This section explores probable future operating environments as well as the resulting implications for U S Army and joint force development It includes recommendations for policymakers and senior leaders regarding the future development and integration of space and cyberspace doctrine Anticipated future trends favor the decreased emphasis on traditional large scale land operations and increased frequency and intensity of conflict in space and cyberspace perhaps even where these newer domains may become preeminent for a given operation The joint staff s pursuit of achieving cross domain synergy in planning and operations offers a credible method to face some of the challenges of the future joint force but this will likely remain an evolutionary vice revolutionary endeavor Related products Army Support of Military Cyberspace Operations Joint Contexts

and Global Escalation Implications can be found here <https://bookstore.gpo.gov/products/army-support-military-cyberspace-operations-joint-contexts-and-global-escalation> Prism A Journal of the Center for Complex Operations print subscription available here <https://bookstore.gpo.gov/products/prism-journal-center-complex-operations> Evolving Army Needs for Space Based Support available here <https://bookstore.gpo.gov/products/evolving-army-needs-space-based-support> Evaluation of the 2015 DOD Cyber Strategy Mild Progress in a Complex and Dynamic Military Domain available here <https://bookstore.gpo.gov/products/evaluation-2015-dod-cyber-strategy-mild-progress-complex-and-dynamic-military-domain> Related products

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