

USE OF FORCE IN CYBERSPACE

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Summary: The ban on the use of force in current international law is of mandatory character. The only exceptions are actions under the auspices of the UN Security Council and self-defence. The article addresses the issue of the use of force, with particular emphasis on cyberspace. As the nature of the conflicts has changed in recent years as well as the space where the individual operations have been moving, a number of fundamental questions arise in this context, which the authors will try to answer.

Keywords: use of force, cyberspace, international law, self-defence

1 Introduction

Not only the ban on the use of force, but also the threat of force is already firmly enshrined in current international law, while this ban is mandatory. The provisions of Art. 2 (4) of the UN Charter states that “*all Members shall refrain in their international relations from the threat or use of force against the territorial integrity or political independence of any state, or in any other manner inconsistent with the Purposes of the United Nations.*”³ This provision expresses one of the fun-

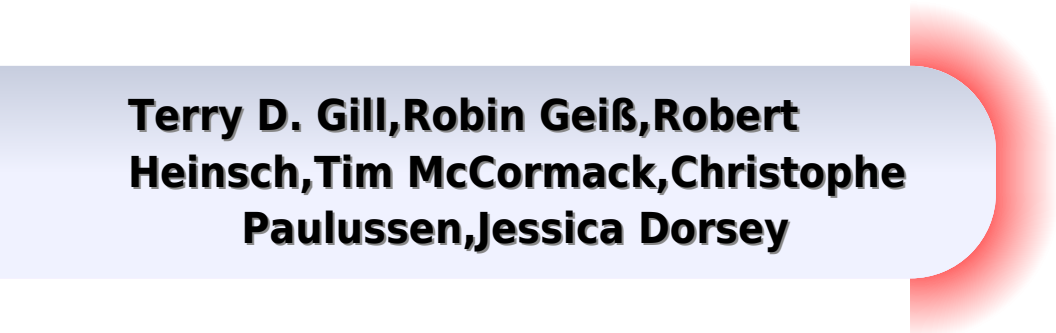
1 doc. JUDr. Jozef Valuch, Ph.D., Faculty of Law, Comenius University in Bratislava, Slovak Republic. He participated in the work on this paper on behalf of the project VEGA no. 1/0579/20 “Armed Conflicts and Cyber Threats – Challenges for International Law in the 21st Century.”

2 JUDr. Ondrej Hamulák, Ph.D., Senior Lecturer at the Faculty of Law, Palacký University Olomouc (Czech Republic) and Adjunct Professor in EU Strategic Legal Affairs, TelTech Law School (Estonia). He participated in the work on this paper on behalf of Jean Monnet Network Project 611293-EPP-1-2019-1-CZ-EPPJMO-NETWORK “European Union and the Challenges of Modern Society”.

3 UN General Assembly Resolution no. 2526/XXV; Although this is a form of declaration which does not normally involve the legally binding effect, in this case, it is a codification

Cyberspace And The Use Of Force

**Terry D. Gill, Robin Geiß, Robert
Heinsch, Tim McCormack, Christophe
Paulussen, Jessica Dorsey**



Cyberspace And The Use Of Force:

Cyberspace and the Use of Force Walter Gary Sharp, 1999 **Cyber Operations and the Use of Force in**

International Law Marco Roscini, Leverhulme Trust, 2014-03 Recent years have seen a significant increase in the scale and sophistication of cyber attacks employed by or against states and non state actors This book investigates the international legal regime that applies to such attacks and investigates how far the traditional rules of international humanitarian law can be used in these situations **Cyberspace in Peace and War** Martin Libicki, 2016-10-15 This book is written to be a

comprehensive guide to cybersecurity and cyberwar policy and strategy developed for a one or two semester class for students of public policy including political science law business etc Although written from a U S perspective most of its contents are globally relevant It is written essentially in four sections The first chapters 1 5 describes how compromises of computers and networks permit unauthorized parties to extract information from such systems cyber espionage and or to force these systems to misbehave in ways that disrupt their operations or corrupt their workings The section examines notable hacks of systems fundamental challenges to cybersecurity e g the lack of forced entry the measure countermeasure relationship including the role of malware and various broad approaches to cybersecurity The second chapters 6 9 describes what government policies can and as importantly cannot be expected to do to improve a nation s cybersecurity thereby leaving leave countries less susceptible to cyberattack by others Among its focus areas are approaches to countering nation scale attacks the cost to victims of broad scale cyberespionage and how to balance intelligence and cybersecurity needs The third chapters 10 15 looks at cyberwar in the context of military operations Describing cyberspace as the 5th domain of warfare feeds the notion that lessons learned from other domains e g land sea apply to cyberspace In reality cyberwar a campaign of disrupting corrupting computers networks is quite different it rarely breaks things can only be useful against a sophisticated adversary competes against cyber espionage and has many first strike characteristics The fourth chapters 16 35 examines strategic cyberwar within the context of state on state relations It examines what strategic cyberwar and threats thereof can do against whom and how countries can respond It then considers the possibility and limitations of a deterrence strategy to modulate such threats covering credibility attribution thresholds and punishment as well as whether denial can deter It continues by examining sub rosa attacks where neither the effects nor the attacker are obvious to the public the role of proxy cyberwar the scope for brandishing cyberattack capabilities including in a nuclear context the role of narrative and signals in a conflict in cyberspace questions of strategic stability and norms for conduct in cyberspace particularly in the context of Sino U S relations and the role played by international law The last chapter considers the future of cyberwar

Research Handbook on International Law and Cyberspace Tsagourias, Nicholas, Buchan, Russell, 2021-12-14 This revised and expanded edition of the Research Handbook on International Law and Cyberspace brings together leading scholars and practitioners to examine how international legal rules concepts and principles apply to cyberspace and the activities

occurring within it. In doing so, contributors highlight the difficulties in applying international law to cyberspace, assess the regulatory efficacy of these rules, and where necessary, suggest adjustments and revisions. *The Air Force Law Review*, 2009. Yearbook of International Humanitarian Law Volume 15, 2012. Terry D. Gill, Robin Geiß, Robert Heinsch, Tim McCormack, Christophe Paulussen, Jessica Dorsey, 2013-11-19. Child Soldiers and the Lubanga Case and The Tallinn Manual on the International Law Applicable to Cyber Warfare are the two central themes of this volume. Each of these timely topics is addressed from three different angles, providing a truly comprehensive analysis of the subject. The book also features an article on the duty to investigate civilian casualties during armed conflict and its implementation in practice, and an elaborate year-in-review discussing developments that occurred in 2012. The Yearbook of International Humanitarian Law is the world's only annual publication devoted to the study of the laws governing armed conflict. It provides a truly international forum for high-quality, peer-reviewed academic articles focusing on this crucial branch of international law. Distinguished by contemporary relevance, the Yearbook of International Humanitarian Law bridges the gap between theory and practice and serves as a useful reference tool for scholars, practitioners, military personnel, civil servants, diplomats, human rights workers, and students. Cybersecurity Law. Jeff Kosseff, 2025-11-12. Comprehensive textbook covering the latest developments in the field of cybersecurity law. Cybersecurity Law offers an authoritative guide to the key statutes, regulations, and court rulings that pertain to cybersecurity, reflecting the latest legal developments for this constantly evolving subject. Since the previous edition was released in 2022, this comprehensive text deals with all aspects of cybersecurity law, including data security and enforcement actions, anti-hacking laws, surveillance and privacy laws, and national and international cybersecurity law. In this new edition, readers will find insights on revisions to regulations and guidance concerning cybersecurity from federal agencies such as the 2023 SEC cybersecurity regulations for all publicly traded companies and the Cyber Incident Reporting for Critical Infrastructure Act and its impact on the obligations of companies across the United States. Other recent developments discussed in this book include litigation from customers against companies after data breaches and the resulting legal articulation of companies' duties to secure personal information, the increased focus from lawmakers and regulators on the Internet of Things (IoT) and the FDA's guidelines for medical device cyber security. Readers of Cybersecurity Law will also find new information on litigation cases where courts ruled on whether plaintiffs stated viable causes of action in data breach cases, including the Eleventh Circuit's opinion in *Ramirez v. Paradies Shops*, Fourth Amendment opinions involving geofence warrants and keyword search warrants, Courts' applications of the Supreme Court's first Computer Fraud and Abuse Act opinion in *Van Buren v. United States*, NIST's 2024 revisions to its popular Cybersecurity Framework, Version 2 of the Cybersecurity Maturity Model Certification. Cybersecurity Law is an ideal textbook for undergraduate and graduate-level courses in cybersecurity, cyber operations, management-oriented information technology (IT), and computer science. It is also a useful reference for IT professionals, government personnel, business managers, auditors, cybersecurity insurance agents, and

academics in these fields *Philip C. Jessup International Law Moot Court Competition* Association of Student International Law Societies, 1981 A Compilation of the Problems Judges Briefs Rules and leading written Memorials which comprise the Philip C Jessup International Law Moot Court Competition To be issued annually **Cyber Operations and the Use of Force in International Law** Marco Roscini, 2014-03-14 The internet has changed the rules of many industries and war is no exception But can a computer virus be classed as an act of war Does a Denial of Service attack count as an armed attack And does a state have a right to self defence when cyber attacked With the range and sophistication of cyber attacks against states showing a dramatic increase in recent times this book investigates the traditional concepts of use of force armed attack and armed conflict and asks whether existing laws created for analogue technologies can be applied to new digital developments The book provides a comprehensive analysis of primary documents and surrounding literature to investigate whether and how existing rules on the use of force in international law apply to a relatively new phenomenon such as cyberspace operations It assesses the rules of *jus ad bellum* and *jus in bello* whether based on treaty or custom and analyses why each rule applies or does not apply to cyber operations Those rules which can be seen to apply are then discussed in the context of each specific type of cyber operation The book addresses the key questions of whether a cyber operation amounts to the use of force and if so whether the victim state can exercise its right of self defence whether cyber operations trigger the application of international humanitarian law when they are not accompanied by traditional hostilities what rules must be followed in the conduct of cyber hostilities how neutrality is affected by cyber operations whether those conducting cyber operations are combatants civilians or civilians taking direct part in hostilities The book is essential reading for everyone wanting a better understanding of how international law regulates cyber combat *Maryland journal of international law and trade* ,1998 *Computer Network Attack and International Law* Naval War College (U.S.), 2002 *Rutgers Computer & Technology Law Journal* ,2014 *The Handbook of Information and Computer Ethics* Kenneth E. Himma, Herman T. Tavani, 2008-05-27 Discover how developments in information technology are raising new ethical debates Information and computer ethics has emerged as an important area of philosophical and social theorizing combining conceptual meta ethical normative and applied elements As a result academic interest in this area has increased dramatically particularly in computer science philosophy and communications departments business schools information and library schools and law schools The Handbook of Information and Computer Ethics responds to this growing interest with twenty seven chapters that address both traditional and current issues in information and computer ethics research It is organized into six parts Foundational Issues and Methodological Frameworks Theoretical Issues Affecting Property Privacy Anonymity and Security Professional Issues and the Information Related Professions Responsibility Issues and Risk Assessment Regulatory Issues and Challenges Access and Equity Issues Each chapter written by one or more of the most influential ethicists in their fields of expertise explains and evaluates the central positions and arguments on the respective issues Chapters end with a

bibliography that identifies the most important supplementary books and papers available on the topic This handbook provides an accessible yet sophisticated overview of the most important issues we face in information and computer ethics today It is an ideal supplemental text for advanced undergraduate and graduate level courses in information and computer ethics and is also of interest to readers who are involved in library science computer science or philosophy

Rethinking the Prohibition on the Use of Force in the Light of Economic Cyber Warfare: Towards a Broader Scope of Article 2(4) of the Un Charter I. D. O. Kilovaty KILOVATY,2020-08-04 Cyber attacks that cause physical consequences are considered to be in violation of the use of force prohibition should the effects reach a certain severity threshold That premise does not extend to cyber attacks that cause economic harm due to a dated distinction between kinetic and other effects This article presents the argument that Article 2 4 of the UN Charter on the prohibition on the threat or use of force ought to apply to economic cyber attacks As a result the right of self defense could be triggered by the gravest of economic cyber attacks as well as the UN Security Council authority under Chapter VII in response to an economic cyber attack The underlying assumption is that the effects of economic cyber attacks can be just as severe and threatening as the effects of kinetic cyber attacks and therefore there is a need to reformulate the boundaries of the use of force paradigm to encompass the additional range of harmful cyber activities This article proposes a framework consisting of a set of factors to assess economic cyber attacks under the use of force paradigm

The Law of Information Conflict Thomas C. Wingfield,2000

Florida Law Review ,2017-05 *Nominations Before the Senate Armed Services Committee, Second Session, 111th Congress* United States. Congress. Senate. Committee on Armed Services,2011 *Arizona Journal of International and Comparative Law* ,2014

Radicalization, Terrorism and Conflict Tali K. Walters,Rachel Monaghan,Jesús Martín Ramírez,2013 Radicalization Terrorism and Conflict is a collection of scholarly works authored by international researchers and leading thinkers addressing contemporary history making issues in international security and terrorism from an interdisciplinary perspective Contributors to this edited volume represent global perspectives ideas analysis and research Radicalization Terrorism and Conflict transmits relevant findings theory and policy ideas for scholars of security and terrorism studies for policy makers and to the general public who are interested in keeping up with this global area of concern It provides a jumping off point for conversation and collaboration that can lead to new knowledge and broader understanding As an interdisciplinary collection of manuscripts this book integrates and synthesizes theory research and public policy analysis in an effort to solve the complex questions and problems presented by this topic Recognition of the need to approach the problems of radicalization terrorism and interpersonal conflict from an interdisciplinary perspective is gaining strength within academic settings policy institutes and global conferences Unlike most recent edited books on the subject that are on the market at this time Radicalization Terrorism and Conflict provides an interdisciplinary approach to understanding related current issues This approach encourages a broader perspective and thought process trans discipline

and global collaboration and cooperation and an integrated synthesis of knowledge Radicalization Terrorism and Conflict opens with an analysis of the ongoing phenomenon of the Arab Spring In Section 1 contributors look at how players in the theatres of local and international terror become radicalized Section 2 analyzes how terrorism becomes manifest in the global theatre and how governments and their actors attempt to prevent it Section 3 presents research to bring understanding to the actors behavior and provide settings for future collaboration in understanding these phenomena

Cyber Attacks and International Law on the Use of Force Samuli Haataja, 2018-12-07 Examining the thematic intersection of law technology and violence this book explores cyber attacks against states and current international law on the use of force The theory of information ethics is used to critique the law s conception of violence and to develop an informational approach as an alternative way to think about cyber attacks Cyber attacks against states constitute a new form of violence in the information age and international law on the use of force is limited in its capacity to regulate them This book draws on Luciano Floridi s theory of information ethics to critique the narrow conception of violence embodied in the law and to develop an alternative way to think about cyber attacks violence and the state The author uses three case studies the 2007 cyber attacks against Estonia the Stuxnet incident involving Iran that was discovered in 2010 and the cyber attacks used as part of the Russian interference in the 2016 US presidential election to demonstrate that an informational approach offers a means to reimagine the state as an entity and cyber attacks as a form of violence against it This interdisciplinary approach will appeal to an international audience of scholars in international law international relations security studies cyber security and anyone interested in the issues surrounding emerging technologies

Cyberspace And The Use Of Force Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Cyberspace And The Use Of Force**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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