Cyber War Law And Ethics For Virl Conflicts

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Sandworm A New Era of Cyberwar and the Hunt for the Kremlin's Most Dangerous Hackers Cyber War Law And Ethics
Unlike past forms of warfare circumscribed by centuries of just war tradition and Law of Armed Conflict prohibitions, cyber warfare occupies a particularly ambiguous status in the conventions of the laws of war. Furthermore, cyber attacks put immense pressure on conventional notions of sovereignty, and the moral and legal doctrines that were developed to regulate them.

Cyber War: Law and Ethics for Virtual Conflicts (Ethics ...
Cyberwarfare occupies an ambiguous status in the conventions of the laws of war. This book addresses Ethical and legal issues surrounding cyberwarfare by considering whether the Laws of Armed Conflict apply to cyberspace and the ethical position of cyberwarfare against the background of our generally recognized moral traditions in armed conflict.

Cyber War: Law and Ethics for Virtual Conflicts - Oxford ...
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Cyber War: Law and Ethics for Virtual Conflicts (Ethics ...
The Laws of War and Laws of International Conflict were not written with cyberspace in mind. Such things did not even exist yet. Patrick Lin states that there is a gap in policy, but also that there is a larger gap between developing the ethics behind the policies (Patrick Lin, Rowe, & Allhoff, 2012). Do laws exist for cyber-attacks? Well, not really.

Ethical and Moral Issues within Cyber Warfare (Guest Post ...
Ethics, National Security, and the Rule of Law Explores the controversial legal and ethical problems raised by cyber war, critically assessing the received wisdom... Examines the complex questions of which legal regimes apply to cyber attacks, whether principles of humanitarian law... Provides an ...

Cyber War - Paperback - Jens David Ohlin; Kevin Govern ...
Outlines a new code of ethics for today's "cyber warriors". Presents the controversial new thesis that "state sponsored hacktivism" is a form of warfare. Explores the ethical and legal dimensions of cyber warfare, grounding the discussion in a broad revisionist approach to military ethics and just war theory. Offers a thorough and authoritative critique of international law and the Tallinn Manual.

Ethics and Cyber Warfare - George Lucas - Oxford ...
Ethics and Cyber Warfare manages to be both. Accessible, lucid, and brimming with insight, members of the academic, military, and intelligence communities would do well to read it carefully.

Ethics and Cyber Warfare: The Quest for Responsible ...
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The Journal of Law & Cyber Warfare provides a public peer-reviewed professional forum for the open discussion and education of technology, business, legal, and military professionals concerning the legal issues businesses and governments arising out of cyber attacks or acts of cyber war. The Journal of Law & Cyber Warfare is published twice per year by top legal professionals and scholars from the law, technology, security, and business industries.

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Cyber War: Law and Ethics for Virtual Conflicts: Ohlin ...

34 Durante, 'Violence, just cyber war and information', p. 371. 35 Floridi, The Ethics of Information, p. 131. 36 Another way of thinking about this deficiency with the IE account is via the condition of proportionality rather than just cause, as we are doing here.

Just cyber war?: Casus belli, information ethics, and the ...

1 D.B. Hollis, 'Re-Thinking the Boundaries of Law in Cyberspace: A Duty to Hack?' in J.D. Ohlin, K. Govern and C. Finkelstein (eds), Cyber War: Law and Ethics for Virtual Conflicts (Oxford University Press, 2015) 129, at 156.

Jens David Ohlin, Kevin Govern and Claire Finkelstein (eds ...

The much ballyhooed issue of what constitutes the proverbial "act of war" in the cyber domain offers a good example. Although the phrase "act of war" is a political term, not a legal axiom, such phrases as "use of force" and "armed attack" do have legal meaning and could relate to a casus belli in terms of a force- ful response.11

Some Reflections on the Intersection of Law and Ethics in ...

This is a chapter in Cyber War and Cyber Terrorism, ed. A. Colarik and L. Janczewski, Hershey, PA: The Idea Group, 2007. Criteria for ethical attacks Ethics starts with laws. International laws of war ("jus in bello") try to regulate how wars can be legally fought (Gutman & Rieff, 1999).

Ethics of cyberwar attacks

Cyber War: Law and Ethics for Virtual Conflicts by. Jens David Ohlin (Editor), Kevin Govern (Editor), Claire Finkelstein (Editor) really liked it 4.00 · Rating details · 2 ratings · 1 review Cyber weapons and cyber warfare have become one of the most dangerous innovations of recent years, and a significant threat to national security. Cyber ...

Cyber War: Law and Ethics for Virtual Conflicts by Jens ...

The Cyber Law of War: What you need to know Sanctioned and structured military operations conducted in accordance with international law have a rigorous approval structure and command authority. It's certainly true some nations have a wider interpretation of the lawful use of force than others.

The Cyber Law of War - The State of Security

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Unlike past forms of warfare circumscribed by centuries of just war tradition and Law of Armed Conflict prohibitions, cyber warfare occupies a particularly ambiguous status in the conventions of the laws of war. Furthermore, cyber attacks put immense pressure on conventional notions of sovereignty, and the moral and legal doctrines that were ...

Cyber warfare has become more pervasive and more complex in recent years. It is difficult to regulate, as it holds an ambiguous position within the laws of war. This book investigates the legal and ethical ramifications of cyber war, considering which sets of laws apply to it, and how it fits into traditional ideas of armed conflict.

Cyber weapons and cyber warfare have become one of the most dangerous innovations of recent years, and a significant threat to national security. Cyber weapons can imperil economic, political, and military systems by a single act, or by multifaceted orders of effect, with wide-ranging potential consequences. Unlike past forms of warfare circumscribed by centuries of just war tradition and Law of Armed Conflict prohibitions, cyber warfare occupies a particularly ambiguous status in the conventions of the laws of war. Furthermore, cyber attacks put immense pressure on conventional notions of sovereignty, and the moral and legal doctrines that were developed to regulate them. This book, written by an unrivalled set of experts, assists in proactively addressing the ethical and legal issues that surround cyber warfare by considering, first, whether the Laws of Armed Conflict apply to cyberspace just as they do to traditional warfare, and second, the ethical position of cyber warfare against the background of our generally recognized moral traditions in armed conflict. The book explores these moral and legal issues in three categories. First, it addresses foundational questions regarding cyber attacks. What are they and what does it mean to talk about a cyber war? The book presents alternative views concerning whether the laws of war should apply, or whether transnational criminal law or some other peacetime framework is more appropriate, or if there is a tipping point that enables the laws of war to be used. Secondly, it examines the key principles of jus in bello to determine how they might be applied to cyber-conflicts, in particular those of proportionality and necessity. It also investigates the distinction between civilian and combatant in this context, and studies the level of causation necessary to elicit a response, looking at the notion of a 'proximate cause'. Finally, it analyses the specific operational realities implicated by particular regulatory regimes. This book is unmissable reading for anyone interested in the impact of cyber warfare on international law and the laws of war.

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From North Korea's recent attacks on Sony to perpetual news reports of successful hackings and criminal theft, cyber conflict has emerged as a major topic of public concern. Yet even as attacks on military, civilian, and commercial targets have escalated, there is not yet a clear set of ethical guidelines that apply to cyber warfare. Indeed, like terrorism, cyber warfare is commonly believed to be a war without rules. Given the prevalence cyber warfare, developing a practical moral code for this new form of conflict is more important than ever. In Ethics and Cyber Warfare, internationally-respected ethicist George Lucas delves into the confounding realm of cyber conflict. Comparing "state-sponsored hacktivism" to the transformative impact of "irregular warfare" in conventional armed conflict, Lucas offers a critique of legal approaches to governance, and outlines a new approach to ethics and "just war" reasoning. Lucas draws upon the political philosophies of Alasdair MacIntyre, John Rawls, and Jurgen Habermas to provide a framework for understanding these newly-emerging standards for cyber conflict, and ultimately presents a professional code of ethics for a new generation of "cyber warriors." Lucas concludes with a discussion of whether preemptive self-defense efforts - such as the massive government surveillance programs revealed by Edward Snowden - can ever be justified, addressing controversial topics such as privacy, anonymity, and public trust. Well-reasoned and timely, Ethics and Cyber Warfare is a must-read for anyone with an interest in philosophy, ethics, or cybercrime. "

Philosophical and ethical discussions of warfare are often tied to emerging technologies and techniques. Today we are presented with what many believe is a radical shift in the nature of war-the realization of conflict in the cyber-realm, the so-called "fifth domain" of warfare. Does an aggressive act in the cyber-realm constitute an act of war? If so, what rules should govern such warfare? Are the standard theories of just war capable of analyzing and assessing this mode of conflict? These changing circumstances present us with a series of questions demanding serious attention. Is there such a thing as cyberwarfare? How do the existing rules of engagement and theories from the just war tradition apply to cyberwarfare? How should we assess a cyber-attack conducted by a state agency against private enterprise and vice versa? Furthermore, how should actors behave in the cyber-realm? Are there ethical norms that can be applied to the cyber-realm? Are the classic just war constraints of non-combatant immunity and proportionality possible in this realm? Especially given the idea that events that

are constrained within the cyber-realm do not directly physically harm anyone, what do traditional ethics of war conventions say about this new space? These questions strike at the very center of contemporary intellectual discussion over the ethics of war. In twelve original essays, plus a foreword from John Arquilla and an introduction, Binary Bullets: The Ethics of Cyberwarfare, engages these questions head on with contributions from the top scholars working in this field today.

The United States is increasingly dependent on information and information technology for both civilian and military purposes, as are many other nations. Although there is a substantial literature on the potential impact of a cyberattack on the societal infrastructure of the United States, little has been written about the use of cyberattack as an instrument of U.S. policy. Cyberattacks--actions intended to damage adversary computer systems or networks--can be used for a variety of military purposes. But they also have application to certain missions of the intelligence community, such as covert action. They may be useful for certain domestic law enforcement purposes, and some analysts believe that they might be useful for certain private sector entities who are themselves under cyberattack. This report considers all of these applications from an integrated perspective that ties together technology, policy, legal, and ethical issues. Focusing on the use of cyberattack as an instrument of U.S. national policy, Technology, Policy, Law and Ethics Regarding U.S. Acquisition and Use of Cyberattack Capabilities explores important characteristics of cyberattack. It describes the current international and domestic legal structure as it might apply to cyberattack, and considers analogies to other domains of conflict to develop relevant insights. Of special interest to the military, intelligence, law enforcement, and homeland security communities, this report is also an essential point of departure for nongovernmental researchers interested in this rarely discussed topic.

This book presents 12 essays that focus on the analysis of the problems prompted by cyber operations (COs). It clarifies and discusses the ethical and regulatory problems raised by the deployment of cyber capabilities by a state's army to inflict disruption or damage to an adversary's targets in or through cyberspace. Written by world-leading philosophers, ethicists, policy-makers, and law and military experts, the essays cover such topics as the conceptual novelty of COs and the ethical problems that this engenders; the applicability of existing conceptual and regulatory frameworks to COs deployed in case of conflicts; the definition of deterrence strategies involving COs; and the analysis of models to foster cooperation in managing cyber crises. Each essay is an invited contribution or a revised version of a paper originally presented at the workshop on Ethics and Policies for Cyber Warfare, organized by the NATO Cooperative Cyber Defence Centre of Excellence in collaboration with the University of Oxford. The volume endorses a multi-disciplinary approach, as such it offers a comprehensive overview of the ethical, legal, and policy problems posed by COs and of the different approaches and methods that can be used to solve them. It will appeal to a wide readership, including ethicists, philosophers, military experts, strategy planners, and law- and policy-makers.

This open access book provides the first comprehensive collection of papers that provide an integrative view on cybersecurity. It discusses theories, problems and solutions on the relevant ethical issues involved. This work is sorely needed in a

world where cybersecurity has become indispensable to protect trust and confidence in the digital infrastructure whilst respecting fundamental values like equality, fairness, freedom, or privacy. The book has a strong practical focus as it includes case studies outlining ethical issues in cybersecurity and presenting guidelines and other measures to tackle those issues. It is thus not only relevant for academics but also for practitioners in cybersecurity such as providers of security software, governmental CERTs or Chief Security Officers in companies.

This book offers an overview of the ethical problems posed by Information Warfare, and of the different approaches and methods used to solve them, in order to provide the reader with a better grasp of the ethical conundrums posed by this new form of warfare. The volume is divided into three parts, each comprising four chapters. The first part focuses on issues pertaining to the concept of Information Warfare and the clarifications that need to be made in order to address its ethical implications. The second part collects contributions focusing on Just War Theory and its application to the case of Information Warfare. The third part adopts alternative approaches to Just War Theory for analysing the ethical implications of this phenomenon. Finally, an afterword by Neelie Kroes - Vice President of the European Commission and European Digital Agenda Commissioner - concludes the volume. Her contribution describes the interests and commitments of the European Digital Agenda with respect to research for the development and deployment of robots in various circumstances, including warfare.

Cyber Warfare Techniques, Tactics and Tools for Security Practitioners provides a comprehensive look at how and why digital warfare is waged. This book explores the participants, battlefields, and the tools and techniques used during today's digital conflicts. The concepts discussed will give students of information security a better idea of how cyber conflicts are carried out now, how they will change in the future, and how to detect and defend against espionage, hacktivism, insider threats and non-state actors such as organized criminals and terrorists. Every one of our systems is under attack from multiple vectors - our defenses must be ready all the time and our alert systems must detect the threats every time. This book provides concrete examples and real-world guidance on how to identify and defend a network against malicious attacks. It considers relevant technical and factual information from an insider's point of view, as well as the ethics, laws and consequences of cyber war and how computer criminal law may change as a result. Starting with a definition of cyber warfare, the book's 15 chapters discuss the following topics: the cyberspace battlefield; cyber doctrine; cyber warriors; logical, physical, and psychological weapons; computer network exploitation; computer network attack and defense; non-state actors in computer network operations; legal system impacts; ethics in cyber warfare; cyberspace challenges; and the future of cyber war. This book is a valuable resource to those involved in cyber warfare activities, including policymakers, penetration testers, security professionals, network and systems administrators, and college instructors. The information provided on cyber tactics and attacks can also be used to assist in developing improved and more efficient procedures and technical defenses. Managers will find the text useful in improving the overall risk management strategies for their organizations. Provides concrete examples and real-world guidance on how to identify and defend your network against malicious attacks Dives deeply into relevant technical and factual information from an insider's point

of view Details the ethics, laws and consequences of cyber war and how computer criminal law may change as a result

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