

Wired For War The Robotics Revolution And Conflict In The 21st Century

The Coming Robot Revolution
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Handbook of Unmanned Aerial Vehicles
Wired for War
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Likewar

The Coming Robot Revolution

'if AI is outside your field, or you know something of the subject and would like to know more then Artificial Intelligence: The Basics is a brilliant primer.' - Nick Smith, Engineering and Technology Magazine November 2011
Artificial Intelligence: The Basics is a concise and cutting-

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edge introduction to the fast moving world of AI. The author Kevin Warwick, a pioneer in the field, examines issues of what it means to be man or machine and looks at advances in robotics which have blurred the boundaries. Topics covered include: how intelligence can be defined whether machines can 'think' sensory input in machine systems the nature of consciousness the controversial culturing of human neurons. Exploring issues at the heart of the subject, this book is suitable for anyone interested in AI, and provides an illuminating and accessible introduction to this fascinating subject.

Robot Ethics

In the wake of two extended wars, Western militaries find themselves looking to the future while confronting amorphous nonstate threats and shrinking defense budgets. The 2015 Kingston Conference on International Security (KCIS) examined how robotics and autonomous systems that enhance soldier effectiveness may offer attractive investment opportunities for developing a more efficient force capable of operating effectively in the future environment. This monograph offers 3 chapters derived from the KCIS and explores the drivers influencing strategic choices associated with these technologies and offers preliminary policy recommendations geared to advance a comprehensive technology investment strategy. In addition, the publication offers insight into the ethical challenges and potential positive moral implications of using robots on the modern battlefield.

Handbook of Unmanned Aerial Vehicles

First and only undergraduate textbook that addresses the

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social and ethical issues associated with a wide array of emerging technologies, including genetic modification, human enhancement, geoengineering, robotics, virtual reality, artificial meat, neurotechnologies, information technologies, nanotechnology, sex selection, and more.

Wired for War

Robots on the Battlefield

Expounding on the results of the author's work with the US Army Research Office, DARPA, the Office of Naval Research, and various defense industry contractors, *Governing Lethal Behavior in Autonomous Robots* explores how to produce an "artificial conscience" in a new class of robots, humane-oids, which are robots that can potentially perform more ethically than humans in the battlefield. The author examines the philosophical basis, motivation, theory, and design recommendations for the implementation of an ethical control and reasoning system in autonomous robot systems, taking into account the Laws of War and Rules of Engagement. The book presents robot architectural design recommendations for Post facto suppression of unethical behavior, Behavioral design that incorporates ethical constraints from the onset, The use of affective functions as an adaptive component in the event of unethical action, and A mechanism that identifies and advises operators regarding their ultimate responsibility for the deployment of autonomous systems. It also examines why soldiers fail in battle regarding ethical decisions; discusses the opinions of the public, researchers, policymakers, and military personnel on the use of lethality by autonomous systems; provides examples that illustrate

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autonomous systems' ethical use of force; and includes relevant Laws of War. Helping ensure that warfare is conducted justly with the advent of autonomous robots, this book shows that the first steps toward creating robots that not only conform to international law but outperform human soldiers in their ethical capacity are within reach in the future. It supplies the motivation, philosophy, formalisms, representational requirements, architectural design criteria, recommendations, and test scenarios to design and construct an autonomous robotic system capable of ethically using lethal force. Ron Arkin was quoted in a November 2010 New York Times article about robots in the military.

The McMahon Line: A Century of Discord

Prominent experts from science and the humanities explore issues in robot ethics that range from sex to war. Robots today serve in many roles, from entertainer to educator to executioner. As robotics technology advances, ethical concerns become more pressing: Should robots be programmed to follow a code of ethics, if this is even possible? Are there risks in forming emotional bonds with robots? How might society--and ethics--change with robotics? This volume is the first book to bring together prominent scholars and experts from both science and the humanities to explore these and other questions in this emerging field. Starting with an overview of the issues and relevant ethical theories, the topics flow naturally from the possibility of programming robot ethics to the ethical use of military robots in war to legal and policy questions, including liability and privacy concerns. The contributors then turn to human-robot emotional relationships, examining the ethical implications of robots as sexual partners, caregivers, and servants. Finally,

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they explore the possibility that robots, whether biological-computational hybrids or pure machines, should be given rights or moral consideration. Ethics is often slow to catch up with technological developments. This authoritative and accessible volume fills a gap in both scholarly literature and policy discussion, offering an impressive collection of expert analyses of the most crucial topics in this increasingly important field.

Drones and Support for the Use of Force

A technology expert describes the ever-increasing role of artificial intelligence in weapons development, the ethical dilemmas these weapons pose, and the potential threat to humanity. Artificial intelligence is playing an ever-increasing role in military weapon systems. Going beyond the bomb-carrying drones used in the Afghan war, the Pentagon is now in a race with China and Russia to develop "lethal autonomous weapon systems" (LAWS). In this eye-opening overview, a physicist, technology expert, and former Honeywell executive examines the advantages and the potential threats to humanity resulting from the deployment of completely autonomous weapon systems. Stressing the likelihood that these weapons will be available in the coming decades, the author raises key questions about how the world will be impacted. Though using robotic systems might lessen military casualties in a conflict, one major concern is: Should we allow machines to make life-and-death decisions in battle? Other areas of concern include the following: Who would be accountable for the actions of completely autonomous weapons--the programmer, the machine itself, or the country that deploys LAWS? When warfare becomes just a matter of technology, will war become more probable,

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edging humanity closer to annihilation? What if AI technology reaches a "singularity level" so that our weapons are controlled by an intelligence exceeding human intelligence? Using vivid scenarios that immerse the reader in the ethical dilemmas and existential threats posed by lethal autonomous weapon systems, the book reveals that the dystopian visions of such movies as *The Terminator* and *I, Robot* may become a frightening reality in the near future. The author concludes with concrete recommendations, founded in historical precedent, to control this new arms race.

Battlefield of the Future - 21st Century Warfare Issues

Artificial intelligence and related technologies are changing both the law and the legal profession. In particular, technological advances in fields ranging from machine learning to more advanced robots, including sensors, virtual realities, algorithms, bots, drones, self-driving cars, and more sophisticated "human-like" robots are creating new and previously unimagined challenges for regulators. These advances also give rise to new opportunities for legal professionals to make efficiency gains in the delivery of legal services. With the exponential growth of such technologies, radical disruption seems likely to accelerate in the near future. This collection brings together a series of contributions by leading scholars in the newly emerging field of artificial intelligence, robotics, and the law. The aim of the book is to enrich legal debates on the social meaning and impact of this type of technology. The distinctive feature of the contributions presented in this edition is that they address the impact of these technological developments in a number of different fields of law and from the perspective of diverse jurisdictions.

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Moreover, the authors utilize insights from multiple related disciplines, in particular social theory and philosophy, in order to better understand and address the legal challenges created by AI. Therefore, the book will contribute to interdisciplinary debates on disruptive new AI technologies and the law.

Armed Robotic Systems Emergence

The author of *Corporate Warriors* and *Children at War* traces the advent of robotic warfare, revealing its use in the war in Iraq, the latest technological achievements, and the secret Pentagon consultations with top science-fiction authors. 35,000 first printing.

Army of None

Dependence on computers has had a transformative effect on human society. Cybernetics is now woven into the core functions of virtually every basic institution, including our oldest ones. War is one such institution, and the digital revolution's impact on it has been profound. The American military, which has no peer, is almost completely reliant on high-tech computer systems. Given the Internet's potential for full-spectrum surveillance and information disruption, the marshaling of computer networks represents the next stage of cyberwar. Indeed, it is upon us already. The recent Stuxnet episode, in which Israel fed a malignant computer virus into Iran's nuclear facilities, is one such example. Penetration into US government computer systems by Chinese hackers—presumably sponsored by the Chinese government—is another. Together, they point to a new era in the evolution of human conflict. In *Cybersecurity and Cyberwar: What*

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Everyone Needs to Know, noted experts Peter W. Singer and Allan Friedman lay out how the revolution in military cybernetics occurred and explain where it is headed. They begin with an explanation of what cyberspace is before moving on to discussions of how it can be exploited and why it is so hard to defend. Throughout, they discuss the latest developments in military and security technology. Singer and Friedman close with a discussion of how people and governments can protect themselves. In sum, *Cybersecurity and Cyberwar* is the definitive account on the subject for the educated general reader who wants to know more about the nature of war, conflict, and security in the twenty-first century.

Robot Ethics

Military robots and other, potentially autonomous robotic systems such as unmanned combat air vehicles (UCAVs) and unmanned ground vehicles (UGVs) could soon be introduced to the battlefield. Look further into the future and we may see autonomous micro- and nanorobots armed and deployed in swarms of thousands or even millions. This growing automation of warfare may come to represent a major discontinuity in the history of warfare: humans will first be removed from the battlefield and may one day even be largely excluded from the decision cycle in future high-tech and high-speed robotic warfare. Although the current technological issues will no doubt be overcome, the greatest obstacles to automated weapons on the battlefield are likely to be legal and ethical concerns. Armin Krishnan explores the technological, legal and ethical issues connected to combat robotics, examining both the opportunities and limitations of autonomous weapons. He also proposes solutions to the future regulation of military robotics through international law.

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Cybersecurity

Sir Henry McMahon, a British colonial administrator, drew a line along the Himalayas at the Simla Convention of 1913-14, demarcating what would in later years become the effective boundary between China and India. The boundary, disputed by India's northern neighbour, has had a profound effect on the relations between the two Asian giants, resulting most prominently in the war of 1962 but also in several skirmishes and stand-offs both before and after that. It continues to be a thorn in the side - reaching a flashpoint at the tri-junction between Tibet, Sikkim and Bhutan in Doklam in 2017 - and may derail all the progress in bilateral ties if left unattended. General J.J. Singh examines the evolution of the boundary and the nuances of British India's Tibet policy from the eighteenth century through to India's Independence, analyses the repercussions for contemporary times and puts forth recommendations for the way ahead.

Ethics and Emerging Technologies

Exploring issues from big-data to robotics, this volume is the first to comprehensively examine the regulatory implications of AI technology.

Algorithms and Law

Since the end of the Second World War--and particularly over the last decade--Japanese science fiction has strongly influenced global popular culture. Unlike American and British science fiction, its most popular examples have been visual--from Gojira (Godzilla) and Astro Boy in the 1950s and 1960s to the anime masterpieces Akira and Ghost in the

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Shell of the 1980s and 1990s--while little attention has been paid to a vibrant tradition of prose science fiction in Japan. Robot Ghosts and Wired Dreams remedies this neglect with a rich exploration of the genre that connects prose science fiction to contemporary anime. Bringing together Western scholars and leading Japanese critics, this groundbreaking work traces the beginnings, evolution, and future direction of science fiction in Japan, its major schools and authors, cultural origins and relationship to its Western counterparts, the role of the genre in the formation of Japan's national and political identity, and its unique fan culture. Covering a remarkable range of texts--from the 1930s fantastic detective fiction of Yumeno Kyûsaku to the cross-culturally produced and marketed film and video game franchise Final Fantasy--this book firmly establishes Japanese science fiction as a vital and exciting genre. Contributors: Hiroki Azuma; Hiroko Chiba, DePauw U; Naoki Chiba; William O. Gardner, Swarthmore College; Mari Kotani; Livia Monnet, U of Montreal; Miri Nakamura, Stanford U; Susan Napier, Tufts U; Sharalyn Orbaugh, U of British Columbia; Tamaki Saitô; Thomas Schnellbächer, Berlin Free U. Christopher Bolton is assistant professor of Japanese at Williams College. Istvan Csicsery-Ronay Jr. is professor of English at DePauw University. Takayuki Tatsumi is professor of English at Keio University.

Robotics, AI and the Future of Law

This is a book about strategy and war fighting. It contains 11 essays which examine topics such as military operations against a well-armed rogue state, the potential of parallel warfare strategy for different kinds of states, the revolutionary potential of information warfare, the lethal possibilities of

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biological warfare and the elements of an ongoing revolution in military affairs. The purpose of the book is to focus attention on the operational problems, enemy strategies and threat that will confront U.S. national security decision makers in the twenty-first century.

Insurgency and Counterinsurgency in Modern War

The New York Times-bestselling guide to how automation is changing the economy, undermining work, and reshaping our lives Winner of Best Business Book of the Year awards from the Financial Times and from Forbes "Lucid, comprehensive, and unafraid;an indispensable contribution to a long-running argument."--Los Angeles Times What are the jobs of the future? How many will there be? And who will have them? As technology continues to accelerate and machines begin taking care of themselves, fewer people will be necessary. Artificial intelligence is already well on its way to making "good jobs" obsolete: many paralegals, journalists, office workers, and even computer programmers are poised to be replaced by robots and smart software. As progress continues, blue and white collar jobs alike will evaporate, squeezing working- and middle-class families ever further. At the same time, households are under assault from exploding costs, especially from the two major industries-education and health care-that, so far, have not been transformed by information technology. The result could well be massive unemployment and inequality as well as the implosion of the consumer economy itself. The past solutions to technological disruption, especially more training and education, aren't going to work. We must decide, now, whether the future will see broad-based prosperity or catastrophic levels of

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inequality and economic insecurity. Rise of the Robots is essential reading to understand what accelerating technology means for our economic prospects-not to mention those of our children-as well as for society as a whole.

Outsourcing War to Machines: The Military Robotics Revolution

Prominent experts from science and the humanities explore issues in robot ethics that range from sex to war. Robots today serve in many roles, from entertainer to educator to executioner. As robotics technology advances, ethical concerns become more pressing: Should robots be programmed to follow a code of ethics, if this is even possible? Are there risks in forming emotional bonds with robots? How might society--and ethics--change with robotics? This volume is the first book to bring together prominent scholars and experts from both science and the humanities to explore these and other questions in this emerging field. Starting with an overview of the issues and relevant ethical theories, the topics flow naturally from the possibility of programming robot ethics to the ethical use of military robots in war to legal and policy questions, including liability and privacy concerns. The contributors then turn to human-robot emotional relationships, examining the ethical implications of robots as sexual partners, caregivers, and servants. Finally, they explore the possibility that robots, whether biological-computational hybrids or pure machines, should be given rights or moral consideration. Ethics is often slow to catch up with technological developments. This authoritative and accessible volume fills a gap in both scholarly literature and policy discussion, offering an impressive collection of expert analyses of the most crucial topics in this increasingly

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important field.

Killer Robots

The first comprehensive technical history of air, land, sea, and underwater unmanned systems, by a distinguished U.S. Navy roboticist. Military drones have recently been hailed as a revolutionary new technology that will forever change the conduct of war. And yet the United States and other countries have been deploying such unmanned military systems for more than a century. Written by a renowned authority in the field, this book documents the forgotten legacy of these pioneering efforts, offering the first comprehensive historical and technical accounting of unmanned air, land, sea, and underwater systems. Focusing on examples introduced during the two world wars, H. R. Everett meticulously traces their development from the mid-nineteenth century to the early Cold War. A pioneering Navy roboticist, Everett not only describes these systems in detail but also reverse-engineers the designs in order to explain how they operated in real-world conditions of the time. More than 500 illustrations—photographs, drawings, and plans, many of them never before published—accompany the text. Everett covers the evolution of early wire-guided submersibles, tracing the development of power, propulsion, communication, and control; radio-controlled surface craft, deployed by both Germany and Great Britain in World War I; radio-controlled submersibles; radio-controlled aircraft, including the TDR-1 assault drone project in World War II—which laid the groundwork for subsequent highly classified drone programs; and remote-controlled ground vehicles, including the Wehrmacht's Goliath and Borgward demolition carriers.

Robotics and Military Operations

A military expert reveals how science fiction is fast becoming reality on the battlefield, changing not just how wars are fought, but also the politics, economics, laws, and ethics that surround war itself.

20YY

Combat drones are transforming attitudes about the use of military force. Military casualties and the costs of conflict sap public support for war and for political and military leaders. Combat drones offer an unprecedented ability to reduce these costs by increasing accuracy, reducing the risks to civilians, and protecting military personnel from harm. These advantages should make drone strikes more popular than operations involving ground troops. Yet many critics believe drone warfare will make political leaders too willing to authorize wars, weakening constraints on the use of force. Because combat drones are relatively new, these arguments have been based on anecdotes, a handful of public opinion polls, or theoretical speculation. *Drones and Support for the Use of Force* uses experimental research to analyze the effects of combat drones on Americans' support for the use of force. The authors' findings—that drones have had important but nuanced effects on support for the use of force—have implications for democratic control of military action and civil-military relations and provide insight into how the proliferation of military technologies influences foreign policy.

Governing Lethal Behavior in Autonomous Robots

Wired for War

A Pentagon defense expert and former U.S. Army Ranger explores what it would mean to give machines authority over the ultimate decision of life or death.

Imperial Grunts

Profiles a group of elite scientists who inherited from the Manhattan Project a mission to counsel the government on potential military applications of scientific breakthroughs, in an account that cites their contributions to such projects the "Star Wars" missile defense program and the national system for predicting global climate. Reprint. 35,000 first printing.

Robot Ghosts and Wired Dreams

Making a robot that looks and behaves like a human being has been the subject of many popular science fiction movies and books. Although the development of such a robot faces many challenges, the making of a virtual human has long been potentially possible. With recent advances in various key technologies related to hardware and software, the making of humanlike robots is increasingly becoming an engineering reality. Development of the required hardware that can perform humanlike functions in a lifelike manner has benefitted greatly from development in such technologies as biologically inspired materials, artificial intelligence, artificial vision, and many others. Producing a humanlike robot that makes body and facial expressions, communicates verbally using extensive vocabulary, and interprets speech with high accuracy is extremely complicated to engineer. Advances in

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voice recognition and speech synthesis are increasingly improving communication capabilities. In our daily life we encounter such innovations when we call the telephone operators of most companies today. As robotics technology continues to improve we are approaching the point where, on seeing such a robot, we will respond with “Wow, this robot looks unbelievably real!” just like the reaction to an artificial flower. The accelerating pace of advances in related fields suggests that the emergence of humanlike robots that become part of our daily life seems to be imminent. These robots are expected to raise ethical concerns and may also raise many complex questions related to their interaction with humans.

Children at War

A collection of original works covering all aspects of insurgency and counterinsurgency through a multinational lens, *Insurgency and Counterinsurgency in Modern War* addresses the need to look beyond the United States and other prominent counterinsurgency actors in the contemporary world. It also reassesses some of the latent and burgeoning insurgent organizations and networks around the globe and suggests alternative approaches to understanding insurgency, counterinsurgency, and conventional and asymmetric warfare as they relate to insurgency and counterinsurgency. This book makes significant contributions to international and interdisciplinary discussions regarding the seminal features of insurgency and counterinsurgency in modern warfare. It also relates topics with terrorism in the post-9/11 era, including the historical roots of insurgency, radicalism in Europe, and regional radical groups like al-Qaeda and Lashkar-e-Taiba. It emphasizes

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how issues around insurgency, counterinsurgency, and terrorism permeate or evolve into particular forms of warfare, military operations, and related governmental activities. Using a diversified lens of analysis, the chapters illustrate key elements that spawn insurgency such as insurgents' beliefs, motivations, aims, leadership characteristics, recruitment methods, operations planning, and responses to state and non-state efforts to contain insurgency. The book also examines how certain terrorist and insurgent operations can remain in the shadows and become secret wars beneath the growing surface threats they pose to the societies in which they breed activity. *Insurgency and Counterinsurgency in Modern War* takes a unique look at a subject that has become widely studied and written about in reaction to modern terrorism and insurgency. It analyzes conditions under which insurgency and counterinsurgency occur from nuanced perspectives that have not previously received full consideration.

Ghost Fleet

The Handbook of Unmanned Aerial Vehicles is a reference text for the academic and research communities, industry, manufacturers, users, practitioners, Federal Government, Federal and State Agencies, the private sector, as well as all organizations that are and will be using unmanned aircraft in a wide spectrum of applications. The Handbook covers all aspects of UAVs, from design to logistics and ethical issues. It is also targeting the young investigator, the future inventor and entrepreneur by providing an overview and detailed information of the state-of-the-art as well as useful new concepts that may lead to innovative research. The contents of the Handbook include material that addresses the needs

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and 'know how' of all of the above sectors targeting a very diverse audience. The Handbook offers a unique and comprehensive treatise of everything one needs to know about unmanned aircrafts, from conception to operation, from technologies to business activities, users, OEMs, reference sources, conferences, publications, professional societies, etc. It should serve as a Thesaurus, an indispensable part of the library for everyone involved in this area. For the first time, contributions by the world's top experts from academia, industry, government and the private sector, are brought together to provide unique perspectives on the current state-of-the-art in UAV, as well as future directions. The Handbook is intended for the expert/practitioner who seeks specific technical/business information, for the technically-oriented scientists and engineers, but also for the novice who wants to learn more about the status of UAV and UAV-related technologies. The Handbook is arranged in a user-friendly format, divided into main parts referring to: UAV Design Principles; UAV Fundamentals; UAV Sensors and Sensing Strategies; UAV Propulsion; UAV Control; UAV Communication Issues; UAV Architectures; UAV Health Management Issues; UAV Modeling, Simulation, Estimation and Identification; MAVs and Bio-Inspired UAVs; UAV Mission and Path Planning; UAV Autonomy; UAV Sense, Detect and Avoid Systems; Networked UAVs and UAV Swarms; UAV Integration into the National Airspace; UAV-Human Interfaces and Decision Support Systems; Human Factors and Training; UAV Logistics Support; UAV Applications; Social and Ethical Implications; The Future of UAVs. Each part is written by internationally renowned authors who are authorities in their respective fields. The contents of the Handbook supports its unique character as a thorough and comprehensive reference book directed to a diverse audience of technologists, businesses, users and

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potential users, managers and decision makers, novices and experts, who seek a holistic volume of information that is not only a technical treatise but also a source for answers to several questions on UAV manufacturers, users, major players in UAV research, costs, training required and logistics issues.

The Jasons

A fascinating, unprecedented first-hand look at the soldiers on the front lines on the Global War on Terror. Plunging deep into midst of some of the hottest conflicts on the globe, Robert D. Kaplan takes us through mud and jungle, desert and dirt to the men and women on the ground who are leading the charge against threats to American security. These soldiers, fighting in thick Colombian jungles or on dusty Afghani plains, are the forefront of the new American foreign policy, a policy being implemented one soldier at a time. As Kaplan brings us inside their thoughts, feelings, and operations, these modern grunts provide insight and understanding into the War on Terror, bringing the war, which sometimes seems so distant, vividly to life. From the Trade Paperback edition.

Wired for War

Joint Force Quarterly

In warzones, ordinary commercially-available drones are used for extraordinary reconnaissance and information gathering. They can also be used for bombings - a drone carrying an explosive charge is potentially a powerful

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weapon. At the same time asymmetric warfare has become the norm - with large states increasingly fighting marginal terrorist groups in the Middle East and elsewhere. Here, Nicholas Grossman shows how we are entering the age of the drone terrorist - groups such as Hezbollah are already using them in the Middle East. Grossman will analyse the ways in which the United States, Israel and other advanced militaries use aerial drones and ground-based robots to fight non-state actors (e.g. ISIS, al Qaeda, the Iraqi and Afghan insurgencies, Hezbollah, Hamas, etc.) and how these groups, as well as individual terrorists, are utilizing less advanced commercially-available drones to fight powerful state opponents. Robotics has huge implications for the future of security, terrorism and international relations and this will be essential reading on the subject of terrorism and drone warfare.

Artificial Intelligence: The Basics

Social media has been weaponized, as state hackers and rogue terrorists have seized upon Twitter and Facebook to create chaos and destruction. This urgent report is required reading, from defense experts P.W. Singer and Emerson T. Brooking.

Rise of the Robots

This book explores how the design, construction, and use of robotics technology may affect today's legal systems and, more particularly, matters of responsibility and agency in criminal law, contractual obligations, and torts. By distinguishing between the behaviour of robots as tools of human interaction, and robots as proper agents in the legal

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arena, jurists will have to address a new generation of “hard cases.” General disagreement may concern immunity in criminal law (e.g., the employment of robot soldiers in battle), personal accountability for certain robots in contracts (e.g., robo-traders), much as clauses of strict liability and negligence-based responsibility in extra-contractual obligations (e.g., service robots in tort law). Since robots are here to stay, the aim of the law should be to wisely govern our mutual relationships.

Burn-In

Armed robotic systems-drones and droids-now emerging on the battlefield portend new strategic realities not only for U.S. forces but also for our allies and future potential belligerents. Numerous questions of immediate warfighting importance come to mind with the fielding of these drones and droids that are viewed as still being in their experimental and entrepreneurial stage of development. By drawing upon historical weapons systems life cycles case studies, focusing on the early 9th through the mid-16th-century knight, the mid-19th through the later 20th-century battleship, and the early 20th through the early 21st-century tank, the monograph provides military historical context related to their emergence, and better allows both for questions related to warfighting to be addressed, and policy recommendations related to them to be initially provided.

War Bots: How U.S. Military Robots Are Transforming War in Iraq, Afghanistan, and the Future

P. W. Singer explores the greatest revolution in military affairs

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since the atom bomb: the dawn of robotic warfare We are on the cusp of a massive shift in military technology that threatens to make real the stuff of I, Robot and The Terminator. Blending historical evidence with interviews of an amazing cast of characters, Singer shows how technology is changing not just how wars are fought, but also the politics, economics, laws, and the ethics that surround war itself. Travelling from the battlefields of Iraq and Afghanistan to modern-day "skunk works" in the midst of suburbia, *Wired for War* will tantalise a wide readership, from military buffs to policy wonks to gearheads.

The Laws of Robots

The authors call upon the United States to prepare for war in new era in which unmanned and autonomous systems will play central war-fighting roles for the United States, its allies and partners, and its adversaries. They warn of a not-too-distant future where guided munitions and battle networking technologies have proliferated widely and are employed by both state and non-state actors, making all military operations more deadly and costly. At the same time, and notwithstanding changes in the strategic environment, the spiraling costs of personnel and crewed combat systems means the U.S. armed forces will likely be smaller in the future than in the immediate past. In response to both of these trends, the authors argue that U.S. planners will increasingly turn to unmanned and robotic systems for answers, and these systems will be increasingly capable and autonomous in action.

Robots in K-12 Education: A New Technology for Learning

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"An FBI agent teams up with the first police robot to hunt a shadowy terrorist in this gripping technothriller-and fact-based tour of tomorrow-from the authors of Ghost Fleet"--

Unmanned Systems of World Wars I and II

A look at the how the Military is using robots now, and how they may be used in the future, and what that means.

Naval Law Review

From U.S. soldiers having to fight children in Afghanistan and Iraq to juvenile terrorists in Sri Lanka to Palestine, the new, younger face of battle is a terrible reality of 21st century warfare. Indeed, the very first American soldier killed by hostile fire in the "War on Terrorism" was shot by a fourteen-year-old Afghan boy. *Children at War* is the first comprehensive examination of a disturbing and escalating phenomenon: the use of children as soldiers around the globe. Interweaving explanatory narrative with the voices of child soldiers themselves, P.W. Singer, an internationally recognized expert in modern warfare, introduces the brutal reality of conflict, where children are sent off to fight in war-torn hotspots from Colombia and the Sudan to Kashmir and Sierra Leone. He explores the evolution of this phenomenon, how and why children are recruited, indoctrinated, trained, and converted to soldiers and then lays out the consequences for global security, with a special case study on terrorism. With this established, he lays out the responses that can end this horrible practice. What emerges is not only a compelling and clarifying read on the darker reality of modern warfare, but also a clear and urgent call for action.

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Drones and Terrorism

Military robots are already being used in conflicts around the globe and are affecting both the decision to go to war and the means by which wars are conducted. This book covers the history of military robotics, analyzes their current employment, and examines the ramifications of their future utilization. •

Clearly identifies the links between the technological developments of the most recent innovations and the ethical and legal challenges of the future • Presents accurate, up-to-date information that is grounded in scholarly research regarding an ever-changing field • Clarifies the capabilities aspect of military robotics and offers detailed analysis on why limits need to be placed on their development • Includes tables, charts, and photographs to illustrate the main points of the text

Genius Weapons

"This book explores the theory and practice of educational robotics in the K-12 formal and informal educational settings, providing empirical research supporting the use of robotics for STEM learning"--Provided by publisher.

Likewar

Two authorities on future warfare join forces to create a taut, convincing novel—set in 2026—about a besieged America battling for its very existence.

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