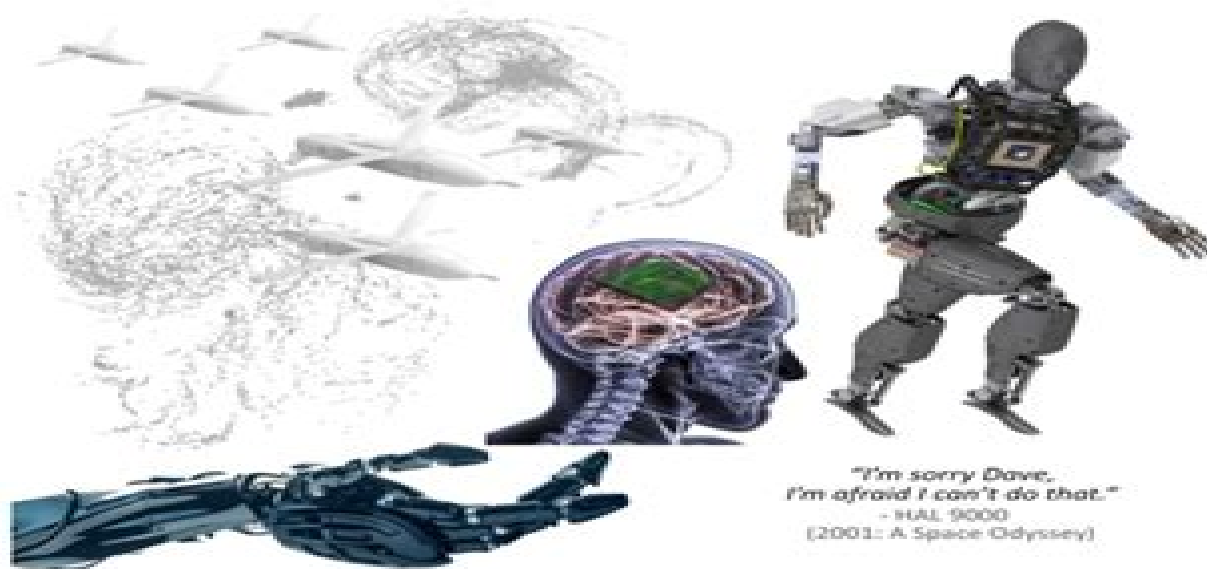


AI, Robots, and Swarms

Issues, Questions, and Recommended Studies

Andrew Ilachinski

January 2017



*"I'm sorry Dave,
I'm afraid I can't do that."*
- HAL 9000
(2001: A Space Odyssey)

Ai Robots And Swarms Issues Questions And Cna

Andrew Ilachinski



Ai Robots And Swarms Issues Questions And Cna:

Research Handbook on Warfare and Artificial Intelligence Robin Geiß, Henning Lahmann, 2024-07-05 The Research Handbook on Warfare and Artificial Intelligence provides a multi disciplinary exploration of the urgent issues emerging from the increasing use of AI supported technologies in military operations Bringing together scholarship from leading experts in the fields of technology and security from across the globe it sheds light on the wide spectrum of existing and prospective cases of AI in armed conflict

AI and the Bomb James Johnson, 2023 This book provides a coherent innovative and multidisciplinary examination of the potential effects of AI technology on nuclear strategy and escalation risk Its findings have significant theoretical and policy ramifications as well as contributing to the literature on the impact of military force and technological change

Changing Dynamics of National Security Dr. Hemant Kumar Pandey, Akhilesh Dwivedi, Aman Bora, 2021-12-31 The contemporary geopolitical affairs anywhere around the globe directly influence the national security of a state Growing conventional as well as non conventional threats are influencing the policies of the nation both at the national and international levels The book throws light on how the different dimensions of national security are constantly changing in this globalized and modernized world This book focuses on how the 21st century is witnessing the new unconventional menaces like Cyber terrorism Proxy wars Elite capture etc the book also discusses how new threats for Indian interests have emerged in and across physical borders and how these threats are going to be countered

Proliferation of Weapons- and Dual-Use Technologies Margaret E. Kosal, 2021-07-26 This book explores and analyzes the rapid pace of technological evolution in diplomatic information military and economic sectors which has contributed to a dynamic international policy environment Global political stability is greatly influenced by innovations originating from numerous sources including university labs the technology sector and military research Collectively these innovations guide the movement of people ideas and technology that in turn affect the international balance of power The objective of this volume is to develop new insights into how the proliferation of innovative ideas low cost weapons and dual use technologies impact the changing global security landscape Innovative and dual use technologies can be used for beneficial purposes or defensive purposes Alternatively they may be appropriated or employed for nefarious purposes by hostile military powers and non state actors alike Such actions can threaten global security and stability As the complexity of technological innovations continues to increase existing control mechanisms such as international regulations and security arrangements may be insufficient to stem the tide of proliferation over time As such this works seeks to assess and present policy solutions to curtail the threat to global stability posed by the proliferation of weapons and dual use technology

Artificial Intelligence and Global Security Yvonne R. Masakowski, 2020-07-15 Artificial Intelligence and Global Security Future Trends Threats and Considerations brings a much needed perspective on the impact of the integration of Artificial Intelligence AI technologies in military affairs Experts forecast that AI will shape future military operations in ways that will

revolutionize warfare Reconsidering American Civil-military Relations Lionel Beehner, Risa Brooks, Daniel Maurer (Major), 2021 This book explores contemporary civil military relations in the United States Much of the canonical literature on civil military relations was either written during or references the Cold War while other major research focuses on the post Cold War era or the first decade of the twenty first century A great deal has changed since then This book considers the implications for civil military relations of many of these changes Specifically it focuses on factors such as breakdowns in democratic and civil military norms and conventions intensifying partisanship and deepening political divisions in American society as well as new technology and the evolving character of armed conflict Chapters are organized around the principal actors in civil military relations and the book includes sections on the military civilian leadership and the public It explores the roles and obligations of each The book also examines how changes in contemporary armed conflict influence civil military relations Chapters in this section examine the cyber domain grey zone operations asymmetric warfare and emerging technology The book thus brings the study of civil military relations into the contemporary era in which new geopolitical realities and the changing character of armed conflict combine with domestic political tensions to test if not potentially redefine those relations *De Gruyter Handbook of Drone Warfare* James Patton Rogers, 2024-09-02 In 2010 60 states had a military drone program Today at least 113 countries and 65 non state actors now have access to weaponized drone technologies Alongside this established drone powers the U S China Turkey and Iran have expanded their own use of military drones increasing the sale and deployment of drones around the world In the *De Gruyter Handbook of Drone Warfare* drone expert policy adviser and historian Dr James Patton Rogers brings together 37 of the world s leading voices on the growing issues of commercial and military drone technologies From the origins of military drones in the early 1900s and the resurgence of drone use during the War on Terror through to the global proliferation of drones across Europe Africa and the Middle East this handbook explores the moral ethical technological legal military geopolitical social and strategic issues at the heart of drone warfare The first handbook of its kind the volume also addresses Russia s offensive war against Ukraine the rise of Iranian and Houthi drones and provides a focused analysis of the future of drone warfare and the opportunities and perils of AI autonomy and swarming technologies in the coming Third Drone Age The Scientific Way of Warfare Antoine J. Bousquet, 2022-06-15 Bousquet s landmark book examines the impact of key technologies and scientific ideas on the theory and practice of warfare and the handling of the perennial tension between order and chaos on the battlefield Spanning the entire modern era from the Scientific Revolution to the present it offers a systematic account of modern warfare as the constitution of increasingly complex assemblages of bodies and machines whose integration rests upon a military assimilation of scientific thought Reflecting the pervasive influence of scientific conceptual frameworks upon warfare modern armies have been successively organised by reference to the paradigmatic technologies of the clock engine computer and network Conversely major scientific developments and technological breakthroughs have become intertwined with the

experience of war especially since the Second World War's unprecedented mobilisation of scientific rationality and technical expertise. This increasingly tight symbiosis between science, technology and war is at the heart of both the tremendous powers and enduring pathologies displayed by the contemporary military machine. In this new and revised edition Bousquet extends the analysis to encompass the latest developments in the scientific way of warfare in the midst of renewed great power competition and a wave of technological innovation in artificial intelligence and robotics.

The Origins of Victory

Andrew F. Krepinevich, 2023-03-21. How the character of war is changing and how militaries can successfully adapt to meet the challenge. This book by military strategist Andrew F. Krepinevich Jr is the definitive take on the race for military dominance in the twenty-first century. It shows how militaries that successfully pursue disruptive innovation can gain a major advantage over their rivals while those that fail to do so risk exposing their countries to great danger. The Precision Warfare Revolution introduced by the U.S. military in the First Gulf War found the United States enjoying a near monopoly in this form of warfare for several decades. But now other powers have these capabilities. The U.S. military also confronts an emerging military revolution driven by advances across a wide range of technologies from artificial intelligence and synthetic biology to quantum computing and additive manufacturing. To stay competitive the U.S. military must pursue disruptive innovation in a race with other militaries to exploit war's changing character. Clues exist as to the winner's identity. They are revealed by militaries that went beyond the bounds of mere innovation to overturn the existing forms of warfare, changing the course of history and the fate of nations. Through exploring their experiences Krepinevich shows how the U.S. military can win the race to identify and exploit the next big thing in warfare.

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.

The Military Revolution and Revolutions in Military Affairs

Mark Fissel, 2022-12-05. The Military Revolution and Revolutions in Military Affairs updates two central debates in military history: the one surrounding the concept of military

revolution and the one on military affairs whilst advancing original research in both fields Only a handful of publications consider the military revolution and the RMA in tandem This book breaks new ground conceptually and appeals to an exceptionally large and diverse readership Comparative revisionist studies of the military revolution and RMA better enable us to comprehend the historical continuum and reveal the new RMA for what it is And for what it is shortly to become This book presents original contributions within the epicentre of the military revolution debate the 1500s with an emphasis on gunpowder revolution offensively and defensively The connections with the Revolution in Military Affairs are then made explicit by scholars a practitioner and an analyst with an emphasis on airborne lethal autonomous weapons systems This is a chronologically broad and unique methodological approach to a historical debate that begs for clarification as we enter an era where killer robots will almost certainly take from humans their monopoly on violence Artificial intelligence and the future of warfare James Johnson, 2021-09-14 This volume offers an innovative and counter intuitive study of how and why artificial intelligence infused weapon systems will affect the strategic stability between nuclear armed states Johnson demystifies the hype surrounding artificial intelligence AI in the context of nuclear weapons and more broadly future warfare The book highlights the potential multifaceted intersections of this and other disruptive technology robotics and autonomy cyber drone swarming big data analytics and quantum communications with nuclear stability Anticipating and preparing for the consequences of the AI empowered weapon systems are fast becoming a critical task for national security and statecraft Johnson considers the impact of these trends on deterrence military escalation and strategic stability between nuclear armed states especially China and the United States The book draws on a wealth of political and cognitive science strategic studies and technical analysis to shed light on the coalescence of developments in AI and other disruptive emerging technologies Artificial intelligence and the future of warfare sketches a clear picture of the potential impact of AI on the digitized battlefield and broadens our understanding of critical questions for international affairs AI will profoundly change how wars are fought and how decision makers think about nuclear deterrence escalation management and strategic stability but not for the reasons you might think **Parameters** , 2017 **The Inheritance** Mara E. Karlin, 2021-12-14 Exploring how the U S military can move beyond Iraq and Afghanistan Since the September 11 2001 attacks the U S military has been fighting incessantly in conflicts around the globe often with inconclusive results The legacies of these conflicts have serious implications for how the United States will wage war in the future Yet there is a stunning lack of introspection about these conflicts Never in modern U S history has the military been at war for so long And never in U S history have such long wars demanded so much of so few The legacy of wars without end include a military that feels the painful effects of war but often feels alone The public is less connected to the military now than at any point in modern U S history The national security apparatus seeks to pivot away from these engagements and to move on to the next threats notably those emanating from China and Russia Many young Americans question whether it even makes sense to invest in the military At best there are ad

hoc unstructured debates about Iraq or Afghanistan Simply put there has been no serious organized stock taking by the public politicians opinion leaders or the military itself of this inheritance Despite being at war for the longest continuous period in its history the military is woefully unprepared for future wars But the United States cannot simply hit the reset button This book explores this inheritance by examining how nearly two decades of war have influenced civil military relations how the military goes to war how the military wages war who leads the military and who serves in it how the military thinks about war and above all the enduring impact of these wars on those who waged them If the U S military seeks to win in the future it must acknowledge and reconcile with the inheritance of its long and inconclusive wars This book seeks to help them do so

Drones in Smart-Cities Fadi Al-Turjman, 2020-06-04 *Drones in Smart Cities Security and Performance* is the first book dedicated to drones in smart cities helping address the many research challenges in bringing UAVs into practice The book incorporates insights from the latest research in Internet of Things big data and cloud computing 5G and other communication technologies It examines the design and implementation of UAV focusing on data delivery performability and security Intended for researchers engineers and practitioners *Drones in Smart Cities Security and Performance* combines the technical aspects with academic theory to help implement the smart city vision around the globe Addresses UAV and IoT for smart cities applications Examines topics as UAV safety challenges localization methods QoS simulation tools and more Collect the relevant knowledge in one resource saving research time and effort

The AI Commander James Johnson, 2024 This book addresses the largely neglected question of how the fusion of machines into the war machine will affect the human condition of warfare It emphasizes the mind and the mechanisms of thought intelligence consciousness emotion memory experience etc to consider the effects of AI and autonomy on the human condition of war

Artificial Intelligence 'Arms Dynamics': The Case Of The U.S. And China Rivalry Gloria Shkurti Özdemir, Artificial Intelligence AI has undergone rapid evolution not only by penetrating every aspect of our life but also by transitioning from theoretical concepts to foundational components of modern military strategy This book focuses into the heart of this evolution focusing on the escalating AI arms rivalry between the U S and China Drawing upon Barry Buzan s theoretical frameworks this book aims to analyze if there is an AI arms race between the U S and China as a part of the ongoing great power competition Findings from the study indicate that both countries perceive AI as a pivotal element of future warfare and national security leading to significant investments in research and development The U S with its historically dominant military technological edge seeks to maintain its superiority through innovation and strategic partnerships Conversely China s ambitious AI strategy aims to establish its leadership in AI technology by 2030 challenging U S dominance and reshaping the global security landscape The analysis reveals that rather than an AI arms race where the possibility for warfare should be high the rivalry between U S China is more an AI arms competition with both states not willing to start a direct war with each other at least for the short term Furthermore the study finds out that the AI arms competition between both states is

driven by both external threats and internal motivations however the technological imperative which is considered as an independent variable is the main driving force behind this rivalry In conclusion the research suggests that the AI arms competition between the U S and China is a defining feature of contemporary international security dynamics with profound implications for global stability

AI, Robots, and Swarms Andrew Ilachinski, 2017 The military is on the cusp of a major technological revolution in which warfare is conducted by unmanned and increasingly autonomous weapon systems However unlike the last sea change during the Cold War when advanced technologies were developed primarily by the Department of Defense DoD the key technology enablers today are being developed mostly in the commercial world This study looks at the state of the art of AI machine learning and robot technologies and their potential future military implications for autonomous and semi autonomous weapon systems While no one can predict how AI will evolve or predict its impact on the development of military autonomous systems it is possible to anticipate many of the conceptual technical and operational challenges that DoD will face as it increasingly turns to AI based technologies This study examines key issues identifies analysis gaps and provides a roadmap of opportunities and challenges It concludes with a list of recommended future studies

Physicomimetics William M. Spears, Diana F. Spears, 2012-01-05 Standard approaches to understanding swarms rely on inspiration from biology and are generally covered by the term biomimetics This book focuses on a different complementary inspiration namely physics The editors have introduced the term physicomimetics to refer to physics based swarm approaches which offer two advantages First they capture the notion that nature is lazy meaning that physics based systems always perform the minimal amount of work necessary which is an especially important advantage in swarm robotics Second physics is the most predictive science and can reduce complex systems to simple concepts and equations that codify emergent behavior and help us to design and understand swarms The editors consolidated over a decade of work on swarm intelligence and swarm robotics organizing the book into 19 chapters as follows Part I introduces the concept of swarms and offers the reader a physics tutorial Part II deals with applications of physicomimetics in order of increased complexity Part III examines the hardware requirements of the presented algorithms and demonstrates real robot implementations Part IV demonstrates how the theory can be used to design swarms from first principles and provides a novel algorithm that handles changing environments finally Part V shows that physicomimetics can be used for function optimization moving the reader from issues of swarm robotics to swarm intelligence The text is supported with a downloadable package containing simulation code and videos of working robots This book is suitable for talented high school and undergraduate students as well as researchers and graduate students in the areas of artificial intelligence and robotics

Swarm Intelligence Christian Blum, Daniel Merkle, 2008-09-24 Swarm intelligence is a modern artificial intelligence discipline that is concerned with the design of multiagent systems with applications e g in timization and in robotics The design paradigm for these systems is fundamentally different from more traditional approaches Instead of a sophisticated controller that governs the global behavior of

the system the swarm intelligence principle is based on many unsophisticated entities that cooperate in order to exhibit a desired behavior Inspiration for the design of these systems is taken from the collective behavior of social insects such as ants termites bees and wasps as well as from the behavior of other animals societies such as flocks of birds or schools of fish Colonies of social insects have mesmerized researchers for many years However the principles that govern their behavior remained unknown for a long time Even though the single members of these societies are unsophisticated individuals they are able to achieve complex tasks in cooperation Coordinated behavior emerges from relatively simple actions or interactions between the individuals

Unveiling the Magic of Words: A Overview of "**Ai Robots And Swarms Issues Questions And Cna**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Ai Robots And Swarms Issues Questions And Cna**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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