



# THE AUTOMATED BATTLEFIELD

New technology in modern warfare



## FRANK BARNABY

# The Automated Battlefield

**Rodrick Wallace**

## **The Automated Battlefield:**

*The Automated Battlefield* Frank Barnaby, 1986

## **Carl von Clausewitz, the Fog-of-War, and the AI Revolution**

Rodrick Wallace, 2018-01-21 The language of business is the language of dreams but the language of war is the language of nightmare made real Yet business dreams of driverless cars on intelligent roads and of other real time critical systems under the control of algorithmic entities have much of war about them Such systems including military institutions at the tactical operational and strategic scales act on rapidly shifting roadway topologies whose traffic rules can rapidly change War is never without both casualty and collateral damage and realtime critical systems of any nature will inevitably partake of fog of war and frictional challenges almost exactly similar to those that have made warfare intractable for modern states Into the world of Carl von Clausewitz John Boyd Mao Tse Tung Vo Nguyen Giap and Genghis Khan come the brash bright eyed techies of Alphabet Microsoft Amazon and Uber who forthrightly step in where a phalanx of angels has not feared to tread but treading badly indeed In this book we use cutting edge tools from information and control theories to examine canonical and idiosyncratic failure modes of real time cognitive systems facing fog of war and frictional constraints In sum nobody ever navigates or can navigate the landscapes of Carl von Clausewitz unscathed

## [AI, Automation, and War](#)

Anthony King, 2025-08-19 Why AI will not replace human strategic judgement in war Is AI about to automate war Will autonomous drone swarms and killer robots controlled by AI dominate the battlespace and determine the winner In AI Automation and War Anthony King debunks this science fiction tinged narrative of AI s military potential exploring instead the actual applications of AI by the armed forces over the last decade He finds that AI is not going to replace human commanders and combatants the machines are not about to take over Rather the military has used and will continue to use AI to process data at a scale and speed that exceeds the capacity of humans AI will be used primarily to improve military understanding and intelligence King explains that military commanders enabled by the data processing power of AI will be able to see the battlespace at a previously unattainable depth fidelity and speed AI will help the armed forces plan target and conduct cyber operations faster and more effectively In order to harness AI in this way however a radical organisational transformation is taking place The armed forces are integrating civilian technologists into operational headquarters to work alongside military staff This partnership between the armed forces and the technology sector signals the emergence of a military tech complex that promises to be as powerful in this century as the military industrial complex was in the last

## **Investigation Into Electronic Battlefield Program**

United States. Congress. Senate. Committee on Armed Services. Electronic Battlefield Subcommittee, 1971

**The Electronic Battlefield** Paul Dickson, 1976 Today s American Military is the most technologically advanced fighting force in the history of the world Drone aircraft spy on and attack and destroy designated targets acting on commands from half a world away Remote control warfare has come into the world forcing our society to face endless new questions from the morality of doing battle without risk to the emotional debate over whether drone

operators can distinguish a band of terrorists from a group assembling for a wedding And the drones are merely the most dramatic and visible example of astonishing unstoppable technological advance in the military Battlefield sensors and satellite imagery provide a flood of information to commanders Computers themselves have become targets and weapons How did it get that way How and when were the decisions made the weapons created the strategies and tactics chosen that brought us to this point In this classic account Paul Dickson takes us back to the waning days of the Vietnam conflict and the earliest days of push button war and the startling story of the birth of The Electronic Battlefield

### **China and America's**

**Tech War from AI to 5G** A. B. Abrams,2022-07-18 China and America's Tech War from AI to 5G examines how Sino U S geopolitical competition has increasingly centered on the performances of the two countries technology sectors and their ability to dominate development of critical next generation technologies It analyzes and compares the strengths of China and the U S ranging from the ability to produce and attract talent to the degree of government support and the scale and funding for technological research Abrams reviews and weighs important technology areas such as green energy artificial intelligence Quantum Computing and 5G will likely have the means both parties have exercised to gain advantages and the consequences of leadership for the country who attains it

### **Computers on the Battlefield** ,1986-06-01 *War Virtually*

Roberto J. González,2024-04-23 A critical look at how the US military is weaponizing technology and data for new kinds of warfare and why we must resist War Virtually is the story of how scientists programmers and engineers are racing to develop data driven technologies for fighting virtual wars both at home and abroad In this landmark book Roberto J González gives us a lucid and gripping account of what lies behind the autonomous weapons robotic systems predictive modeling software advanced surveillance programs and psyops techniques that are transforming the nature of military conflict González a cultural anthropologist takes a critical approach to the techno utopian view of these advancements and their dubious promise of a less deadly and more efficient warfare With clear accessible prose this book exposes the high tech underpinnings of contemporary military operations and the cultural assumptions they're built on Chapters cover automated battlefield robotics social scientists involvement in experimental defense research the blurred line between political consulting and propaganda in the internet era and the military's use of big data to craft new counterinsurgency methods based on predicting conflict González also lays bare the processes by which the Pentagon and US intelligence agencies have quietly joined forces with Big Tech raising an alarming prospect that someday Google Amazon and other Silicon Valley firms might merge with some of the world's biggest defense contractors War Virtually takes an unflinching look at an algorithmic future where new military technologies threaten democratic governance and human survival

*The Automated Battlefield* ,1970 War is Not Healthy for Children and Other Living Things

### **The Air Force Comptroller** ,1997 *Information Management for an*

**Automated Battlefield Command and Control System** Robert Warren Blum,1980 *Congressional Record* United States. Congress,1974 **War on the Land** Bill Weinberg,1991 **The CIA's Secret War in Tibet** Kenneth J.

Conboy,James Morrison,2002 In one of the most remote covert campaigns of the cold war the CIA harnessed nurtured and encouraged the Khampa tribesmen of Tibet in their defiance against Chinese subjugation This is the first time the story has been told    One Against the World; Or, Reuben's War. A Novel John Saunders (Novelist.),1876    *This War Against Japan* ... Ian Morrison,1944    Cassell's History of the War in the Soudan James Grant,1885    **Harper's Pictorial History of the War with Spain** ,1899    **The War for the Union; Or, The Duel Between North and South** Kinahan Cornwallis,1899    **God's War** Wilson Vance,1899

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