

Algorithms of Armageddon

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Autre(s) auteur(s) : Tangredi, Sam J. (19..-....)

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Résumé ou extrait : "This book will be the first-of-a-kind to provide a well-informed account, written in clear prose, that addresses these issues and helps the layperson not only understand the considerations that must be addressed as we insert AI into our weapons systems, but also the ways to influence both governmental and non-governmental entities to ensure that while our military robots are the most capable ones, they don't go rogue." (éd.)

"It is unclear if U.S. policy makers and military leaders fully realize that we have already been thrust into an artificial intelligence (AI) race with authoritarian powers. Today, the United States' peer adversaries- China and Russia-have made clear their intentions to make major investments in AI and insert this technology into their military systems, sensors and weapons. Their goal is to gain an asymmetric advantage over the U.S. military. The implications for our national security are many and complex. Algorithms of Armageddon examines this most pressing security issue in a clear, insightful delivery by two experts. Authors George Galdorisi and Sam J. Tangredi are national security professionals who deal with AI on a day-to-day basis in their work in both the technical and policy arenas. Opening chapters explain the fundamentals of what constitutes big data, machine learning, and artificial intelligence. They

investigate the convergence of AI with other technologies and how these systems will interact with humans. Critical to the issue is the manner by which AI is being developed and utilized by Russia and China. The central chapters of the work address the weaponizing of AI through interaction with other technologies, man-machine teaming, and autonomous weapons systems. The authors cover in depth debates surrounding the AI "genie out of the bottle" controversy, AI arms races, and the resulting impact on policy and the laws of war. Given that global powers are leading large-scale development of AI, it is likely that use of this technology will be global in extent. Will AI-enabled military weapons systems lead to full-scale global war? Can such a conflict be avoided? The later chapters of the work explore these questions, point to the possibility of humans failing to control military AI applications, and conclude that the dangers for the United States are real. Neither a protest against AI, nor a speculative work on how AI could replace humans, Algorithms of Armageddon provides a time-critical understanding of why AI is being implemented through state weaponization, the realities for the global power balance, and more importantly, U.S. national security. Galdorisi and Tangredi propose a national dialogue that focuses on the need for U.S. military to have access to the latest AI-enabled technology in order to provide security and prosperity to the American people." (éd.)

Sujet - Nom commun : Intelligence artificielle

Algorithmes

Intelligence artificielle -- Applications militaires -- États-Unis

Intelligence artificielle -- Applications militaires -- Chine

Intelligence artificielle -- Applications militaires -- Russie

Art et science militaires -- Automatisation