

Nataliia Semchenko

National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute

NEW WAR TECHNOLOGIES AND THEIR IMPACT ON ECONOMIC AND GEOPOLITICAL TRANSFORMATIONS

The article explores the evolution of modern armed conflicts and the complex impact of advanced technologies on global economic and geopolitical transformations. It is emphasised that modern warfare has transitioned from traditional direct confrontations to multidimensional, hybrid phenomena, in which asymmetric methods, information, and digital tools play a pivotal role. The methodological basis of the work is grounded in the synthesis of conflictology, cybersecurity studies, and information analytics, utilizing the research of leading American, European, and Ukrainian scholars. The study analyzes four interconnected types of modern conflicts: information, hybrid, proxy, and cyber warfare. It demonstrates that information campaigns serve as the psychological foundation for manipulating public consciousness ; cyber wars deliver global strikes against critical infrastructure without physical presence ; proxy wars allow major powers to project force while avoiding direct escalation ; and hybrid wars integrate all these elements to achieve maximum synergetic effects. Special attention is given to the technological drivers of these conflicts: commercial satellites, artificial intelligence, autonomous drones, big data, and blockchain. It is noted that these tools not only increase the precision and scale of operations but also democratize access to warfare means for non-state actors, thereby elevating escalation risks. Using the Russian-Ukrainian war as a case study, this paper demonstrates the practical integration of hybrid strategies. The article highlights the global economic consequences of modern conflicts, including multi-billion-dollar cyberattack damages, GDP contraction in war zones (up to 15%), and global food and energy security crises. It is stated that modern technologies enable the achievement of strategic goals through unconventional and cognitive effects, requiring nations to develop new adaptive strategies and strengthen cyber defense.

Keywords: war economy, information warfare, digital technologies, cyberwarfare, automation, blockchain, hybrid strategies.