



Revista Científica General José María Córdova

(Colombian Journal of Military and Strategic Studies)

Bogotá D.C., Colombia

ISSN 1900-6586 (print), 2500-7645 (online)

Journal homepage: <https://www.revistacientificaesmic.com>

Editorial: Protection of national security in information and cyberspace

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How to cite in APA: Svintsytskyi, A., & Fernandez-Osorio, A. E. (2022). Editorial: Protection of national security in information and cyberspace. *Revista Científica General José María Córdova*, 20(38), 243-244.

<https://dx.doi.org/10.21830/19006586.954>

Published online: April 1, 2022

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Volume 20, Number 38, April-June 2022, pp. 243-244

<https://dx.doi.org/10.21830/19006586.954>

Editorial: Protection of national security in information and cyberspace

Editorial: La protección de la seguridad nacional en la información y el ciberespacio

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Dear colleagues and interested readers,

We are honored to present a dossier of the *Revista Científica General Jose Maria Cordova* (Colombian Journal of Military and Strategic Studies) on the *protection of national security in information and cyberspace*, led by Dr. Andrii Svintsytskyi from the Ukrainian Scientific and Research Institute of Special Equipment and Forensic Expertise of the Security Service of Ukraine as a guest editor.

Over the last few decades, information technologies have increasingly developed and deeply integrated into almost all spheres of life, including entertainment, everyday life, production, finance, security, and defense. Naturally, this progress in digital technologies has not been overlooked by criminals who have found various methods to interfere in the work of automated information systems (cyber-attacks), including malicious software.

The evolution of cyber-attacks has proceeded gradually, and the danger of these attacks has increased. As a result, the current scale of criminal acts in cyberspace has acquired the characteristics of real wars; this provides the basis to consider these actions by criminal hacker groups as cyber wars.

The state develops its own cyber security system to counter cyber threats. In Ukraine, a system of specialized agencies has been created to ensure cyber security. These agencies include The State Service of Special Communication and Information Protection of Ukraine, the Computer Emergency Response Team of Ukraine (CERT-UA), the subdivisions of the cyber police, the Department of Counterintelligence Protection of State Interests in the Sphere of Information Security of the Security Service of Ukraine, and the National Coordination Center for Cyber Security of the National Security and Defense Council of Ukraine.

However, investigators, prosecutors, advocates, judges, and other judiciary parties usually do not possess the deep knowledge in the sphere of cyber technology as experts. Therefore, forensic experts are intrinsic in countering cyber threats, particularly in investigating cybercrimes. Although the smallest in employee numbers, The Ukrainian Scientific and Research Institute of Special Equipment and Forensic Expertise of the Security Service of Ukraine is responsible for the greater part of the assignments set before the Security Service. It plays a significant role in forensic and forensic support of cybercrime investigation and countering cyber threats in Ukraine. The institute is accredited according to the international standard ISO / IEC 17025 in computer and technical examinations. It actively participates in implementing international standards for cyber incident investigations into the Ukrainian regulatory framework and develops scientific and methodological materials for examinations in the investigation of cybercrime.

We encourage you to consider this information in a more detailed manner through the scientific papers prepared by several fellow scientists from different Ukrainian academic institutions. We hope the reading process is interesting and insightful.