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Author: Mr. Patrick O'Keeffe
University of Kiel, Germany, p.okeeffe@gmx.de

CYBER SECURITY IN SPACE – NEW THREATS FOR SPACE OPERATIONS

Abstract

Threats in cyber space are constantly rising with severe consequences that frequently go unnoticed. Current cyber security strategies are not able to counter and deter intrusions in various domains whose security was previously taken for granted.

The rapid development of information and communication technologies poses a new challenge to national and international actors, especially to the security of the space sector. In an unprecedented manner, gaps in global security and risk management policies are emerging. Reliance on the benefits of space technology, as well as protection against its vulnerabilities, presents new threats across several domains, agencies, and national-level processes.

The space sector heavily relies on modern communication and data exchange technology. During their life cycle, satellites and launch systems are exposed to numerous cyber vulnerabilities. Traditional means of security management are being challenged. Therefore, a comprehensive cyber security strategy must include a multidimensional and multidisciplinary approach to protect critical systems.

In his analysis, Patrick O'Keeffe will provide an overview of emerging and intensifying cyber threats to the space sector. His message: "It takes more than an excellent IT solution to ensure sustainable protection of systems in space."