

Παρουσίαση διπλωματικής εργασίας με τίτλο:

"Evolution of EU Secure

Satellite Communications: From GovSatCom to IRIS2 and the Relevance of EuroQCI to EU's Cybersecurity Strategy".

Abstract

"Satellites have evolved into critical enablers for a diverse range of essential services, and therefore many aspects of our daily lives rely on the continuous and effective operation of satellite-based services, while the intersection of space and technology has proven instrumental in addressing numerous societal challenges. In this context, the current Thesis aims to perform a comparative analysis of three pivotal satellites-based initiatives, the Governmental Satellite Communications (GovSatCom) initiative, the Infrastructure for Resilience, Interconnectivity and Security by Satellite (IRIS2) initiative, as well as the European Quantum Communication Infrastructure (EuroQCI) initiative, that is included to the European Cybersecurity Strategy, defining their strategic objectives, operational and technical capabilities, as well as limitations and challenges, highlighting, also, both their synergies and main differences. Comprehensive bibliographic research was conducted to collect the required information regarding such initiatives. Furthermore, considering that the malicious actors consider space infrastructure as an attractive target, as well as that the cybersecurity threat landscape continuously evolves, this Thesis aims to define the main cybersecurity requirements and controls that should be implemented, considering the applicable legal and regulatory requirements, industry standards, and best practices, to ensure that the space-based and terrestrial infrastructure is protected against cybersecurity attacks, as well as that the initiatives' provided satellite communication services are cyber-secure and resilient. To achieve such objectives, cybersecurity should be integrated to all aspects of space activities, including the design phase, command and control, satellite operation, uplink/downlink, and ground segment, to promote, establish, and ensure security and resiliency of satellite communication services."

Ο σύνδεσμος εξέτασης της Διπλωματικής, η οποία θα λάβει χώρα την Τρίτη 16/07/2024 στις 20.00 - 21.00, είναι ο ακόλουθος:

Topic: ΔΠΜΣ STAR | MSc Thesis Presentation - Giannaki Konstantina

Time: Jul 16, 2024 08:00 PM Athens

Join Zoom Meeting

<https://us04web.zoom.us/j/75824179491?pwd=Rr95frXZxPyQGfvbi8pwDs67zGNfNM.1>

Meeting ID: 758 2417 9491

Passcode: h7L38T