

IAF SYMPOSIUM ON SECURITY, STABILITY AND SUSTAINABILITY OF SPACE ACTIVITIES
(E9)

Cyber-based security threats to space missions: establishing the legal, institutional and collaborative framework to counteract them (2)

Author: Mr. Paul Szymanski
United States, Strategos@spacewarfare.info

Mr. Srikanth Kodeboyina
Blue Eye Soft Corp, United States, sri@blueyesoft.com

SPACE WARFARE MILITARY ASSESSMENTS

Abstract

TITLE: Space Warfare Military Assessments **AUTHOR:** Paul Szymanski **LINKEDIN PROFILE:** www.linkedin.com/in/PaulSzymanski **PROFESSIONAL WEBSITES:** <http://www.space.forces.space/> or <http://www.space.forces.today/> **AUTHOR'S EXPERIENCE:** 49 years of continuous experience studying missile and outer space warfare theory, principles, policy, doctrine, strategies and tactics, including space weapons systems development. **CLASSIFICATION OF ABSTRACT:** Unclassified **CLASSIFICATION OF BRIEFING:** Unclassified **CATEGORIES:** Outer Space Military Warfare Theory, Policy, Doctrine, Strategies, Tactics, Space Weapons Systems, Battle Management, Space Domain Awareness (SDA), Space Situational Awareness (SSA), Space Resilience, target ranking algorithms

ABSTRACT: The importance of space to modern battlefields is unquestioned. However, due to the newness of space warfare, and the tremendous distances involved, it is very difficult to assess adversary goals and intents expressed by their military actions in space. To help solve these critical issues, the author, based on his 49 years' experience in space warfare, has analyzed actual space wars that have already occurred. He will brief basic principles of outer space warfare and its history (there have been at least 10 space wars or incidents since the 1970's), and provide a detailed example of the space war that occurred in 2014 and what has occurred in space this year over the current Ukrainian conflict. He will also demonstrate an orbital simulation that mathematically proves the attack on Russian Glonass satellites in 2014.