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LEGAL DIMENSIONS OF AUTONOMOUS ARTIFICIAL INTELLIGENCE SATELLITES; A NEW
LOOK AT LIABILITY ISSUE

Abstract

These days, artificial intelligence and machine learning have revolutionized all the fields of technology, and space technology is no exception. Artificial Intelligence (herein after AI) in the satellite industry has significant advantages, from the acceleration of data processing to collision avoidance. However, because of the fact that the algorithms and data have become the central element in controlling autonomous intelligent satellites and enable them to make decision, numerous sophisticated legal issues, particularly in the liability and responsibility domains, will be raised. The overall aim of this article is to examine the applicability of the current regulation of liability in space law to autonomous intelligent satellites. For this purpose, after analyzing the legal dimensions of autonomous intelligent satellites, the paper seeks to address these questions; Do the current rules of space law cover all the risks of this new era of autonomy? Is the existing regime of the Liability Convention appropriate for space activities based on artificial intelligence satellites? The article, by scrutinizing the rules of space law, attempts to find a way by which the potential risks of these satellites could be regulated. Key Words: Autonomous Intelligence Satellites, Space Law, Liability, Responsibility