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Policy, Legal, Institutional and Economic Aspects of Space Debris Detection, Mitigation and Removal
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RESEARCH ON THE DEVELOPMENT TREND ON LEGAL MECHANISM OF SPACE DEBRIS ACTIVE CLEARANCE

Abstract

In recent years, with the development of the world space industry, more and more new spacecrafts have been transported to low-Earth orbit. The number of space debris in space has increased year by year, and an increasing amount of space debris is filled in outer space. It has become a dazzling environmental problem by creating enormous harm and potential threats to human activities. However, the traditional mechanism can't change the status quo of the continuous growth of total space debris, which will have a serious impact on the further development and operation of the space. Although many countries in the world are actively exploring and researching effective and feasible solutions, they have not yet developed an international legal document specifically on the issue of "active removal of space debris" to clearly define the responsibilities and obligations for the active removal of space debris. It has seriously hindered the further implementation of the debris removal plan. It is necessary for the international community to clarify the international legal responsibility for the active removal of space debris. Therefore, this paper will start with the relevant legal provisions of space debris. It will analyze the current situation of space debris and the issue and status quo of the active removal of space debris, further clarify the responsibility and obligation of space debris active removal in each country, and actively remove space debris. And the paper will proposes rationalization for the development of domestic legislation for the active removal of space debris in China.