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BUILDING BLOCKS APPROACH ON SPACE DEBRIS MITIGATION

Abstract

Space debris increasingly dominates the space environment as the number of launches and orbiting satellites increases against the backdrop of the expansion of both state and non-state space actors. The domination of space debris is a serious threat to all space actors in ensuring the safety, security and sustainability of their space activities. Moreover, for future generations will have the opportunity to experience and benefit from the preservation of the space environment for their lives. Although efforts to mitigate and eliminate the threat of space debris have been encouraged internationally in various forms, especially multilaterally promoted by UNCOPUOS, significant steps are needed for international cooperation to address issues that arise, especially bridging the technology capability gap of space-faring countries and non-space-faring countries. So, it is necessary to know, how is the international cooperation approach that can significantly encourage solutions to the issue of space debris? Using the Building Blocks Approach from Falkner et al, 2010 which seeks to frame cooperation by forming a regime or architecture for the protection of the space environment in the long run. The method used in this paper is qualitative phenomenology. With analytical techniques, namely process analytics that inform by focusing problems on significant international cooperation efforts for space debris issues. Using both primary and secondary data, primary data through interviews with space science researchers from the National Institute of Aeronautics and Space, as well as astronomer from the Bandung Institute of Technology. Meanwhile, secondary data is obtained from documents and information related to efforts to build significant international cooperation in overcoming space debris issues. Based on the results of the analysis, efforts to build significant international cooperation in overcoming the space debris issue can use a strategy that develops various elements of space debris governance step by step, then incorporates them into a broader political framework.