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MOON-A GATEWAY TO FUTURE SOLAR EXPLORATION

Abstract

This paper examines the potential of the Moon as a key station in pushing forward with human and robotic explorations to the corners of the solar system. Exploring Moon as a waypoint for future space projects, we cover the advantages and implications that can be encountered once people start to live on its surface in the long term. For instance, this component involves the Moon as an observation platform, testing facility, resource pile, and training ground for cosmonauts. The note stresses on the need of international collaboration and technology development as a necessary step to the maximum possible utilization of the Moon as a starting point to deep space voyages, ironically setting up humans to Mars and even beyond. By conducting a thorough assessment of contemporary programs like Artemis Program of NASA, this paper is to be the strategic highlight of Moon as a primary gateway to space exploration and humanization through the solar system.