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SOLAR POWERED ASTEROID MINING ROBOTS WITH AI

Abstract

The motivation behind asteroid mining, emphasizes the scarcity of certain resources on Earth and the potential abundance of these resources on asteroids. Asteroid mining aims to extract valuable resources from asteroids beyond Earth. This abstract provides an overview of the concept of asteroid mining Robots with the help of AI to track the potential asteroid for future space exploration and resource utilization. Analysis suggests that Near-Earth Asteroids (NEA) contain enough volatile and high-value minerals to make the mining process economically feasible. This paper explores Robots that are capable of extracting water from asteroids and transporting it to an appropriate orbit. The Robots will likely be solar-powered, to reduce the need for fuel that would have to be hauled to the asteroid from spacecraft. After an asteroid's minerals and resources have been exhausted by the mining project, the Robot Tracks is the next nearest potential Asteroid for Transportation.