

Return to the Moon (02)
Poster Session (P)Author: Mr. THANGAVEL SANJEEVIRAJA
India, stvaero@gmail.com

ANALYSIS OF TECHNICAL CHALLENGES OF SPACE EXPLORATION IN LUNAR MISSION

Abstract

Space professional has an influential desire to make the moon as destination for the further movement in the space since the Apollo Astronaut reached in 1972. The remarkable successes of the Apollo Moon mission and international space station results in many space connoisseur began reconsidering the role of humans and robotic in space exploration. It's a healthy debate on exploration strategies, goals of the future would be best alternative for the space exploration by human and robots. Robots could survive long space voyage and accomplish the task as humans. The Lunar Exploration (LE) will undertake lunar exploration activities that enable sustained human and robotic exploration and other bodies across the solar system. These activities will play an important role in future space mission to develop and test new approaches, technologies, and systems, including use of lunar and other space resources. New technologies based on existing to solve problem involved in long journey of space flight for human and robotic. It is envisaged for space exploration, human will return to the moon before 2020. In this paper focus early utilization of the new system on the first human mission into deep space beyond the moon and further examine co-ordinate Human-Robotic operation in a field environment, analysis and assign functions to both humans and robots based on their respective capabilities and characteristics, accomplishment of this exploration robots should be used where there is no clear advantage to using humans and for performing repetitive, tedious tasks. Humans will always be limited by safety considerations, the necessity for spacesuits, limited mission durations, and time required for routine maintenance, and the cost and mass of human life support systems. It promises to be an exciting and invigorating new role for the lunar mission.