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Abstract

As the plan of mankind to establish a permanent habitat on the moon in the next decade are firming up internationally, new mission architectures and scenarios are proposed by many countries. Facing the new living environment of the lunar habitat, there will be many new ergonomics problems of human-machine-environment interaction. Combining the research situation of manned moon landing and residence on the moon in the United States and Russia, focusing on the analysis of manned moon landing and activities outside the lunar habitat, the work ability, crew composition, and other astronaut-centered problems and solutions, and put forward the next step is the development direction and focus of the lunar habitat.

A short bio

I am Ao (Oaks) Jiang, now a doctoral student at the University of Leeds, human factors expert at Euro Moon Mars Group. My research focuses on visually optimized design in space environments (space habitats) and human factors, helping astronauts (users) improve habitability through color and visual optimization. I have extensive experience in user research, human factors, usability assessment and testing, experimental design, UX/UI design, prototyping and evaluation, and industrial design engineering.