

Human Factors in Space Exploration: Opportunities for International and Interdisciplinary Collaboration

As humanity is pushing the boundaries of space exploration, human factors research becomes more important. Human factors encompass a broad spectrum of psychological, physiological and ergonomic factors that affect human performance, well-being and safety in the unique and challenging space environment. This panel explores the multifaceted field of human factors in space exploration and highlights the opportunities that lie in fostering international and interdisciplinary cooperation. This exploration delves into the current state of research on human factors in space missions, addressing the physiological and psychological challenges astronauts face during long space flights. It emphasizes the importance of interdisciplinary collaboration, combining knowledge from fields such as psychology, medicine, engineering and design to address the complex interaction of factors affecting human performance and adaptation to the space environment.