

IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM (A1)
Medicine in Space and Extreme Environments (4)

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THE MEDINAUT SYSTEM: A TELEROBOTIC, TELE-PRESENCE FLYING TELESURGICAL
PHYSICIAN DRON-ROVER OFFERING REALTIME, REMOTE RELIEF AND MEDICAL CARE
FOR AUSTERE ISOLATED ENVIRONMENTS ON EARTH AND ASTRONAUTS ON A PLANETARY
SURFACE

Abstract

The MEDINAUT offering real-time telesurgical and medical care in remote, austere environments on Moon, Mars and Earth. An integrated system on a drone with multi-functional capabilities supported by the convergence of multiple exponential technologies, such as, spacial computing (mixed reality, MR) AI, robotics, haptics and digital twin. telepresence avatars. This system will be able to provide real-time medical triaging and surgical interventions during life-threatening injuries and potential save lives for victims in Space, on planetary surface or battlefields and disaster scenarios on Earth.