Exploration Telepresence: Value and Challenges

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DATE: Monday, October 19, 2015 - 1:00 PM

LOCATION: Conference Room 2.806
MCC Building, 2nd Floor
3925 W. Braker Lane, Ste 200
Austin, Texas 78759

ABSTRACT: The risks and challenges of landing humans in gravity wells, and spectacular advances in telerobotics argue that human presence at exploration sites can be, at least in the near term, achieved remotely. But high quality human telepresence is intolerant of communication latency, so low-latency telepresence will require putting humans close to the exploration site. This can be done with humans in orbit overhead. Such on-orbit telerobotics will offer surface situation awareness, mobility, and dexterity. Such low latency telerobotics are used routinely for many terrestrial applications. Exploration telepresence is a concept that has matured to the point that it is ready for implementation.

Coffee & cookies will be served
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