Special Issue

Planetary Robot Design, Development, and Control

Message from the Guest Editors

Robots for planetary exploration have had, and still play, a fundamental role in the in-situ exploration of extraterrestrial planets and celestial bodies. Recent examples include the exploration of Mars by NASA's Mars Exploration Rovers, Mars Science Laboratory and Mars 2020, as well as China's Mars rover Zhurong; and the exploration of the Moon by China's Yutu rovers. A growing interest in in-situ operations for the exploration of planetary bodies is demonstrated by the many robotic missions planned for the coming years, such as ESA ExoMars, ROSCOSMOS Luna-25, and DLR/JAXA Mars Moons eXploration. Within the framework of NASA's Artemis program, robots will be a fundamental asset for in-situ resource utilization (ISRU) and astronaut-assistance tasks. Join our efforts to share and extend the latest advancements in the design, development, and control of planetary robots, as regards their locomotion and manipulation abilities, sampling tools, sensors, control and navigation techniques, and strategies for mission operations.

Guest Editors

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