

## Special Issue

# Emerging Space Missions and Technologies

### Message from the Guest Editors

In recent years, space science has developed rapidly. Novel space missions appear one after another. These innovative missions play an important role for humans in the exploration and understanding of the universe. New technology also emerges. Typical new technologies include the solar sail spacecraft, tethered systems, space robots, and space intelligent bionic systems. In the construction and development of lunar bases, space robots have a particularly important role. Solar sail spacecrafts that do not consume fuel will play an important role in the field of deep space exploration. A space tether system is proposed to design the space elevators. The aim of this Special Issue is to provide a collection of papers pertaining to the dynamics and control of innovative space missions. Potential topics include, but are not limited to, the following:

- Space solar power station;
- In-space assembly and construction;
- Space robot;
- Space innovative structure/mechanism, such as tensegrity structure, intelligent bionic system;
- Space gravitational wave detection;
- Solar sail spacecraft;
- Space tethered system;
- Distributed space system;
- Novel concepts for space system.

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### Deadline for manuscript submissions

closed (31 January 2023)



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### Editor-in-Chief

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