

Special Issue: Selected Methods and Techniques for Intelligent Systems for Space

Information technology has progressively grown in importance to space exploration efforts and today it often dominates the cost and schedule of space mission projects. This Special Issue aims to emphasize current and emerging IT practice and challenges for future space missions.

In 2017, the latest edition of the IEEE International Conference on Space Mission Challenges for Information Technology (SMC-IT) took place at the University of Alcalá (Spain). SMC-IT'17 was a forum to gather system and software engineers, scientists, and other practitioners with the objective of advancing information technology for space missions. The photo below shows the conference attendees just after the conference opening. Mr. Larry D. James—Deputy Director of the NASA-JPL, opened the conference.



A subset of the papers presented, addressing recent advances, were invited to submit their work to this special issue of the AESS magazine. After a thorough review process, the following titles were deemed the best for this special issue:

- ▶ An Anisotropic Fast Marching Method Applied to Path Planning for Mars Rovers.
- ▶ Design of a TTC Antenna Using Simulation and Multiobjective Evolutionary Algorithms.

- ▶ Enabling Strong Isolation for Distributed Real-time Applications in Edge Computing Scenarios.
- ▶ Machine Learning for Predicting Thermal Power Consumption of the Mars Express Spacecraft.

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