

ACM Transactions on Intelligent Systems and Technology

(ACM TIST <http://tist.acm.org>)

Call for Papers: Special Issues on Intelligent Systems for Space Applications

Editor: [Steve Chien](#), Jet Propulsion Laboratory, Caltech

Deadlines: 1 May 2010 and later (see below)

Expected publication dates: 2010 and 2011.

Intelligent systems have shown remarkable impact in automating a range of functions for space missions. While many of these systems have been deployed in ground operations, several intelligent systems have been deployed onboard spacecraft and rovers.

This ACM Transactions on Intelligent Systems and Technology (ACM TIST) special issue seeks articles related to all aspects of intelligent systems for **space applications**. We solicit high-quality papers on development and deployment of intelligent systems for space applications, with a particular emphasis on: automated planning & scheduling for mission and ground systems operations and automated data analysis. We invite submissions on topics including, but not limited to:

- Automated and semi-automated planning & scheduling of
 - Spacecraft mission operations
 - Ground communications stations and networks
 - Manned space flight activities
 - Operations staffing
 - Automated retasking and sensorwebsIncluding both onboard systems and ground-based intelligent systems.
- Automated data analysis
 - Onboard classification, product generation, target recognition, science event detection
 - Ground based event detection,

- Processing of in-situ and remotely sensed data
- Event detection in sensorwebs

Submission Guidelines

Submission dates and projected publication dates:

Special Issues on Automated Planning & Scheduling	
Submission Date	Projected Publication Date
01 May 2010	November 2010
01 November 2010	May 2011
Special Issues on Automated Data Analysis	
Submission Date	Projected Publication Date
01 August 2010	February 2011
01 February 2011	August 2011

Submissions should be no more than 10,000 words or 20 ACM Journal pages (counting a standard figure or table as 200 words) and should follow the magazine's style and presentation guidelines (see <http://tist.acm.org/authors.html>). To submit a manuscript, access the ACM Manuscript Central System, at <http://mc.manuscriptcentral.com/tist> with 'Special Issue: Intelligent Systems for Space' as the manuscript type. All submissions will be peer reviewed and the results will be notified in June, 2010.

Questions?

Contact Guest Editors

Automated Planning & Scheduling

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TBC