

Call for Papers

ACM Transactions on Intelligent Systems and Technology ([ACM TIST](#)) Special Issue on Intelligent Systems for Activity Recognition (TIST-SI-ISAR-10)

Activity recognition aims to capture and predict the behaviors and objectives of one or more agents from a series of observations on the agents' locations, actions and other environmental conditions. Together with the development of sensor technologies, activity recognition has found many applications ranging from home-based e-health solutions to mobile commerce. Activity recognition can provide guidance for many different levels of human activities, ranging from the detection of locations and transportation modes to the prediction of high-level goals and objectives. Many systems have been developed using a variety of Artificial Intelligence technologies such as probability theories and statistical learning models. This special issue is aimed at providing a forum to highlight some of the leading works in the area of intelligent activity recognition systems and technologies. Topics include but are not limited to

- Abnormal behavior recognition and Outlier Analysis
- Activity mining in sensor networks
- Activity recognition in healthcare, environment and marketplaces
- Location estimation and transportation mode detection
- Machine learning for plan recognition and user modeling
- Monitoring agent conversations
- Multi-agent plan and behavior recognition
- User intent, and behavior recognition in Web and mobile applications
- User plan recognition and modeling in social networks

Submissions

On-Line Submission (available in January, 2010):

<http://mc.manuscriptcentral.com/tist> (please select “Special Issue: Intelligent Systems for Activity Recognition” as the manuscript type)

Details of the journal and manuscript preparation are available on the website:

<http://tist.acm.org/>

Each paper will be peer-reviewed by at least three reviewers.

Important Dates

Full Paper Submission Deadline: **March 29, 2010**

Review Notification: **April 30, 2010**

Final Manuscript: **May 23, 2010**

Publication Date: **July/August 2010**

Guest Editors

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