

Image and Signal Processing for Aerial and Satellite Remote Sensing

Stanley Rotman

New hardware sensor technologies for remote sensing are being assisted by new algorithms for image and signal processing. Synthetic Aperture Radar (SAR) and multi-spectral imaging techniques are being developed for anomaly and target detection. Background classification for situational awareness is crucial considering the amount of data flowing in from aerial and satellite sensors. Change detection algorithms can be used for disaster management and terrain usage. Our session will bring together academics and industry to determine the new needs for image and signal processing in the remote sensing area and the present challenges in the algorithmic community.

Papers in this session are solicited for (but not limited to):

- Synthetic Aperture Radar Image Processing Techniques
- Multi-Dimensional Image Processing
- New Image Processing Methods for Change Detection in Urban and Rural Areas
- Terrain Classification Algorithms