

*Terrestrial, Atmospheric and Oceanic Sciences (TAO)*  
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2016 Special Issue Call for Papers

**"Innovative Applications of Radar and LiDAR Remote Sensing"**

Manuscript submissions before **28 Feb. 2015**

**Scope of the special issue:**

Radar (radio detection and ranging) and LiDAR (light detection and ranging) are both active remote sensing techniques, and can be operated day or night. They both send out a signal and receive backscattered or reflected signals from ground surface features to form image data. Radar uses relative long wavelengths which allows these systems to "see" through clouds, smoke, and some vegetation. LiDAR is a laser scanning system that allows the measurement of 3D object surfaces in high accuracy. Innovative applications of radar and LiDAR remote sensing have been continuously developed and carried forward in many fields. For example, radar imagery is widely applied for crop monitoring, flood mapping, soil moisture mapping, forestry biomass estimation, terrain analysis, oil spill detection, and snow/ice mapping. On the other hand, LiDAR data are increasingly used for the generation of digital terrain models (DTMs), 3D city modeling, investigation of forest structure, geological analysis, coast zone and bathymetric mapping etc. This special issue will cover a variety of new applications of radar and LiDAR remote sensing.

**Submission information:**

This TAO special issue is dedicated to International Symposium on Remote Sensing (ISRS 2015) to be held in Tainan, Taiwan on 22-24 April 2015. The special issue has been arranged for authors who wish to have their researches published in peer-reviewed journals. Please inform the editors of the special issue by email along with your full paper by **28 February 2015**. To circumvent the possible dilemma of duplicate publication, we would recommend that the authors might submit extended abstract to the conference and full paper to the journal, respectively.

**Special issue editors:**

- Prof. Tian-Yuan Shih, National Chiao Tung University, Taiwan ([tyshih@mail.nctu.edu.tw](mailto:tyshih@mail.nctu.edu.tw))
- Prof. Yi-Hsing Tseng, National Cheng Kung University, Taiwan ([tseng@mail.ncku.edu.tw](mailto:tseng@mail.ncku.edu.tw))
- Prof. Fuan Tsai, National Central University, Taiwan ([ftsai@csrsr.ncu.edu.tw](mailto:ftsai@csrsr.ncu.edu.tw))
- Prof. Chung-Pai Chang, National Central University, Taiwan ([cpchang@csrsr.ncu.edu.tw](mailto:cpchang@csrsr.ncu.edu.tw))