

Special Issue on  
**Advanced Sensor Technologies in Geospatial Sciences  
 and Engineering**

# CALL FOR PAPERS

Sensor technologies have been developing rapidly in the field of geospatial sciences and engineering. For example, as satellites and unmanned aerial vehicles (UAV) have been widely used for commercial uses, geospatial sensor technologies are getting more accurate and qualified, and as high-qualified geospatial data have been acquired from advanced sensors, application fields using the geospatial data are getting much wider as well. Therefore, advanced sensor technologies have become more essential to contribute to the geographic mapping and understand the geological, ecological, hydrological, and environmental characteristics of Earth surfaces. This special issue particularly aims to provide insight into the development and application of state-of-the-art sensor technologies in geospatial sciences and engineering as well as offer theoretical perspectives and practical solutions of advanced and emerging geospatial sensor technologies. Geospatial sciences and engineering include topics such as geospatial information sciences (GIS), remote sensing (RS), digital photogrammetry (DP), global positioning system (GPS), and Internet mapping technologies. Original research articles and literature review papers addressing the development and applications of advanced geospatial sensor technologies are welcome. The objective of this special issue is to create a multidisciplinary forum of discussion on advanced sensor technologies in geospatial sciences and engineering as well as new ways of applying geospatial sensor technologies to geology, ecology, hydrology, environmentology, and other similar areas.

Potential topics include but are not limited to the following:

- ▶ Sensors in geographical mapping
- ▶ Advanced sensor design and platforms in geospatial sciences and engineering
- ▶ Geospatial multisensor system design and integration
- ▶ Advanced onboard processing in geospatial sciences and engineering
- ▶ Advances in sensors for remote sensing
- ▶ Multiplatform remote sensing in geospatial applications
- ▶ Geospatial data models with advanced sensors
- ▶ Spatial big data analysis in advanced sensor technologies
- ▶ Position and localization systems, algorithm, and techniques
- ▶ Application and innovative use of geospatial sensor techniques
- ▶ Real-time emergency spatial decision support sensor systems
- ▶ Sensor technique in UAV (unmanned aerial vehicles) applications
- ▶ Hyperspectral sensors in geospatial applications
- ▶ Laser scanning sensors in geospatial applications
- ▶ Image processing algorithms and systems in geographical mapping
- ▶ Geospatial information extraction and data mining
- ▶ Spatiotemporal analysis in geospatial data

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/js/astgse/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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