Sensors and Materials

Special Issue on City Geospatial Governance Based on Remote Sensing, Geographic Information Science and Global Navigation Satellite System

Call for papers

The development of cities has a profound impact on the national and global economy. With the rapid development of cities, the serious deficiency of living space, resource reserves, and uneven development have gradually become hot issues in recent years. Combined with intelligent sensors, remote sensing (RS), Global Navigation Satellite System (GNSS), artificial intelligence, 5G, spatiotemporal big data and other technologies, geographic information science (GIS) has greatly improved the analysis and research ability of the current situation and development trends of city geospatial governance and for use in related applications. It can efficiently obtain multi-type and multi-attribute data using different intelligent sensors, such as meteorology, ecology, resources, economy, and transportation, and further provide accurate basic data for urban governance and monitoring.

This special issue aims to explain the contribution and application of multi-sensor data, RS technology, and GIS in the spatial governance of megacities. It focuses on the theoretical and experimental research of urban quantitative analysis in the fields of urban architectural space, urban transportation, urban natural resources, urban ecology, urban climate change, and urban development, which can provide effective analytical data, technical and theoretical support for dynamic monitoring, and trend prediction of urban development.

Scope:

- Urban assessment based on geographic spatiotemporal data and intelligent sensors
- Urban geospatial monitoring/analysis/governance based on geographic spatiotemporal data and intelligent sensors
- Urban ecological environment assessment/prediction/planning
- Monitoring and analysis of urban land use types based on RS
- Monitoring and analysis of urban natural resources
- Analysis/prediction of urban ecology and climate change
- Extraction/fusion methods for urban multi-sensor monitoring data based on artificial intelligence technology
- Integration and application of artificial intelligence technology and geographic spatiotemporal data technology
- Research on smart surveying and mapping technology and their applications

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