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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing Special Issue on “Remote Sensing Data Management Technologies in GeoScience”

While we are experiencing a rapid increase in Volume, Velocity and Variety of Remote Sensing data, most Remote Sensing platforms and systems are still relying on the traditional data management strategies. These strategies use file management systems or relational data management systems to manage data objects, their catalogs, and the associated metadata. However, with the explosion of data in Remote Sensing, this approach is reaching its limits in both data and metadata management, significantly reducing the performance of application layers on top of those Remote Sensing platforms and systems. Therefore, it is critical to study new techniques for promoting the effective uses of appropriate data management technologies and increasing the value of Remote Sensing data. In this inaugural special issue, we focus on bringing together a research community to review the state of art in data management tools and understand the application requirements. Submissions may describe consolidated requirements, novel research topics, use cases of emerging technologies, and application trends.

The broad topics include (but are not limited to):

- Spatio-temporal database solutions for Big Remote Sensing Data
- Graph databases, knowledge graph, graph visualization, web semantics tools/technologies for managing and discovering data and metadata in Remote Sensing
- Novel database solutions for Analysis-Ready Data (ARD)
- Using Big Data management and analysis tools for Remote Sensing data management and analysis
- (Near-)Real-time intelligence from Remote Sensing platforms
- Use cases involving adaptations and enhancements of data management technologies for real-world remote-sensing applications.

Schedule

October 1, 2022	Submission system opening
September 30, 2023	Submission system closing

Format

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “**Remote Sensing Data Management Technologies in GeoScience**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARS has become a fully open-access journal charging a flat publication fee \$1,250 per paper.

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