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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Special Issue on
"Recent Advances in China's Gaofen Satellite Applications: Challenges and Opportunities"

The first Gaofen satellite, GF-1 was launched on April 26, 2013. Since then, a series of Gaofen satellites, from GF-1 to GF-7 have been launched. The latest GF-7 was successfully launched on November 3, 2019, and is currently in operation. The spectral bands cover ultraviolet, visible, near-infrared, shortwave-infrared, thermal infrared, and microwave. The spatial resolution ranges from sub-meter, meter, ten-meter, and hundred-meter to kilometer levels. Currently, Gaofen series products include 1) standard products (level 0 to level 2), 2) common products (level 3 to level 5), and 3) specific products (levels 6 and 7). These products can provide a continuous supply of high-quality remote sensing data with a high spatial, temporal, and spectral resolution for various scientific research and industry applications (including national land surveying, resource exploration, environmental monitoring, agricultural yield estimation, etc.). This special issue aims to provide a synthesized overview of the latest advances and challenges related to Gaofen series data/products, which can serve as the directional support for applications of Gaofen series data in multiple fields.

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

- Receiving/generation/retrieval of Gaofen series data/products: raw data, GaoFen standard, common and specific products
- Image processing and analysis of Gaofen series products: fusion/integration, registration, classification, target detection, feature extraction, change detection, 3D reconstruction
- Calibration of Gaofen products: vicarious, cross-calibration, automatic radiometric calibration
- Validation of Gaofen products: field measurement, accuracy evaluation datasets, quantitative assessment
- Applications of Gaofen satellites: natural resource management (e.g. forest, water, wetland, soil), agricultural monitoring, sustainable urban development

Schedule

January 1, 2024	Submission system opening
December 31, 2024	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 "**Recent Advances in China's Gaofen Satellite Applications: Challenges and Opportunities**" 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 $1,496 per paper.

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