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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue on
“Intelligent and Real-time Processing of Remote Sensing Images for Earth Observation”

Remote sensing technology has played an important role in earth observation applications, such as disaster monitoring, environmental protection, marine applications, urban planning, etc. With the development of remote sensing technology, the amount of acquired data has increased geometrically. To extract valuable information from massive remote sensing images automatically and rapidly, intelligent and real-time processing technology has become a hot topic in recent years. For instance, the data preprocessing and target recognition have been realized in spaceborne or airborne real-time processing system. For huge algorithm models, there is more and more research on improving processing efficiency by lightweight and parallel processing technology. This special issue aims to collect and highlight outstanding contributions of recent state-of-the-art techniques in this field.

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

- Real-time and intelligent processing architecture/system for remote sensing images
- Intelligent and rapid algorithms for data preprocessing
- Intelligent and rapid algorithms for target detection/recognition
- Intelligent and rapid algorithms for segmentation/change detection in high-resolution remote sensing images
- Intelligent and rapid algorithms for data fusion of multi-sensor
- Pruning, quantization and compression methods for deep learning algorithms
- Parallel mapping strategy of embedded system for real-time and intelligent processing

Schedule

Dec. 1, 2022 Submission system opening
Jun. 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 “**Intelligent and Real-time Processing of Remote Sensing Images for Earth Observation**” 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).

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