



CALL FOR PAPERS
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue on
“Foundation and Large Vision Models for Remote Sensing”

In recent years, foundation models have emerged as a powerful framework that can be adapted for a variety of downstream vision tasks. In the arena of remote sensing, prior work has been focused on task-specific models that are optimized for specific tasks at hand (e.g. precision agriculture, target recognition, object detection etc. from specific sensors). There is significant and emergent interest in developing and deploying task-agnostic generalized models that can be tailored for various downstream tasks. Likewise, there is a strong interest in deploying vision language models for remote sensing. This special issue will provide an avenue for researchers working at the intersection of foundation models, large vision models and earth observation applications to contribute their latest research. Topics include (but are not limited to):

- Foundation Models, Large Vision Language Models and Large Multi-Modal Models in Remote Sensing
- Discriminative and Generative Models
- Training of Large Vision Models (e.g. masked image modeling, new datasets, and benchmarks)
- Deploying Large Vision Models for downstream tasks (e.g. segmentation, classification, regression, object detection, counting, change detection etc.)
- Adaptation strategies, prompt tuning and visual instruction tuning
- Few-shot and Continual learning
- Open-set recognition and classification
- Applications to Remote Sensing and Earth Observations
- Applications to multi-sensor and multi-temporal datasets

Schedule

07-01-2024 Submission system opening

01-31-2025 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 “Foundation and Large Vision Models for Remote Sensing” 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 since Jan. 1, 2024, IEEE J-STARS, as a fully open-access journal, is charging a flat publication fee of \$1,496 per paper.

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