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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing Special Issue on “Integrating User Generated Contents for Remote Sensing Applications”

Remote sensing techniques provide up-to-date land surface measurements on a large spatial scale and are widely used for Earth observation. In the era of big data, the emergent user generated contents (UGC), by complementing the traditional remote sensing data (e.g., optical or SAR data), bring new opportunities to understand urban structure and human mobility behavior in geographical environments. UGC can provide important observations about the urban physical and social environments, and have been recently playing an important role in understanding human daily activities. This special issue will explore novel technologies for the integration of remote sensing data and UGC, as well as the applications for such integration in generating improved Earth observation results, or new insights into social and economic research topics. Specifically, this special issue aims at collecting contributions for establishing a new technological scheme in integrating remote sensing data and UGC with respect to various applications.

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

- Image captioning based on multi modal data sources, including remote sensing data and UGC
- Fusion techniques of heterogeneous remote sensing data and UGC
- Quality control of heterogeneous remote sensing data and UGC
- The joint use of remote sensing data and UGC for object detection, such as impervious area mapping, building extraction, and road detection
- Integration of remote sensing data and UGC for emergency response, such as the assessment of damage caused by natural hazards (e.g., earthquake, flood, tsunami)
- Applications of remote sensing data and UGC in social and economic studies

Schedule

Dec 1, 2020: Submission system opening

May 31, 2021: 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 “**Integrating User Generated Contents for Remote Sensing Applications**” 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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