



CALL FOR PAPERS
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue on
Enabling Earth Observation Systems for Natural Hazards and Disasters: Accelerating SDGs 2030 Implementation

Sustainable Development Goals (SDGs) address the global challenges we face, including those related to climate, environmental degradation, sustainable development, community resilience, food security, and socio-economics. Earth observations support response efforts, evaluation, and monitoring of natural hazards and disasters in SDGs. Therefore, we propose this special issue to bring awareness and interest in utilizing earth observations to support SDGs, in particular, remote sensing technologies for disaster risk reduction and response, poverty, zero hunger, good health, clean water, clean energy, peace and human rights, climate action, life below water, and life on land. The proposed publications' contribution increases skills and capabilities of practitioners, researchers, scientists, politicians, and decision makers. Besides, earth observations and remote sensing techniques at all levels (sea-land-air-space) along with integrated computing technologies, geographic information systems (GIS), machine learning, computer vision, and autonomous systems, are being applied to address problems at regional, national and global scales. Now, to continue enabling earth observation systems and to use the information more effectively for accelerating SDGs implementation, researchers can use satellite images, including optics and radar, and drone images for environmental changes and disasters loss reduction in various ways. Therefore, this proposed special issue aims to actively contribute emerging, integrated techniques and knowledge to environmental changes and disasters management incorporated with earth observation systems applications beyond. It will focus on research and technical experiences from different parts of the world for various aspects of earth observations systems.

Submissions should address the following **remote sensing** related topics:

- HD maps for smart cities and urban emergency search and rescue.
- Remote sensing technologies (e.g., SAR, DInSAR, LiDAR) for disaster risk reduction and response, poverty, zero hunger, good health, water and sanitation, affordable and clean energy, sustainable cities and communities, peace and human rights, climate action, life below water, and life on land.
- Novel location-based services for urban search and rescue.
- Autonomous systems and mapping techniques for disaster monitoring and damage assessment.
- Implementation of earth observation systems.
- Mobile mapping for transportation emergency response.
- Dense 3D scanning and imaging techniques for disaster response.
- The role and contribution of standards and standardization in earth observation systems for disasters.

Schedule

May 1, 2020	Submission system opening
October 31, 2020	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 “**Accelerating SDGs 2030 Implementation**” special issue manuscript type. Prospective authors should consult the site <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8855039> 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. Note that as of Jan. 1, 2020, J-STARS has been a fully open-access journal charging \$1,250 per paper.

Guest Editors

Saeid Pirasteh	Southwest Jiaotong University, China (sapirasteh@swjtu.edu.cn)
Michael J. Starek	Texas A&M University, USA (michael.starek@tamucc.edu)
Maria Antonia Brovelli	Politecnico Milano, Polo Territoriale di Como, DICA, Italy (maria.brovelli@polimi.it)
Serena Coetzee	University of Pretoria, South Africa (serena.coetzee@up.ac.za)
Jonathan Li	University of Waterloo, Canada (junli@uwaterloo.ca)
Abbas Rajabifard	University of Melbourne, Australia (abbas.r@unimelb.edu.au)