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

Special Issue on
"Advancements in Agro-Geoinformatics for Smart and Sustainable Agriculture"

Agriculture is the foundation of human society and plays a vital role in providing food security and nutrition to the global population. However, the challenges facing the agricultural sector are increasing day by day due to changing climatic conditions, population growth, and environmental degradation. To address these challenges, agro-geoinformatics has emerged as a powerful tool for monitoring and managing agricultural activities, enabling informed decision-making, and promoting sustainable practices. Agro-geoinformatics is the application of geospatial technologies, such as RS, GIS, and GPS, to agriculture. It provides valuable information on agricultural activities, such as crop acreages, crop condition, yield estimation and prediction, and agricultural-related natural disasters. Recent advancements in digital technologies, such as cloud computing, machine learning, and artificial intelligence, have provided the agro-geoinformatics industry with new tools and methods for facilitating and promoting new innovative approaches in agriculture. The goal of this special issue is to provide a platform for researchers and practitioners to share their latest research findings, innovations, and best practices in agro-geoinformatics, and to stimulate further discussions on how this technology can contribute to smart and sustainable agriculture.

The broad topics include (but are not limited to):
- Remote sensing and GIS applications in agriculture
- Crop modeling and yield prediction
- Sustainable agriculture and climate change mitigation
- Agricultural data fusion and integration
- Deep learning and artificial intelligence in agro-geoinformatics
- Cyber-infrastructure for agro-geoinformatics
- Social media and citizen science in agriculture
- Decision support systems for agricultural management
- Agricultural disaster monitoring
- Spatio-temporal Prediction in agriculture

Schedule
Sep. 1, 2023   Submission system opening
Apr. 30, 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 "**Advancements in Agro-Geoinformatics for Smart and Sustainable Agriculture**" 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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