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

Special Issue on
"Remote Sensing of Wind: Theories, Technologies and Applications"

Wind, one of the most common natural phenomena, is closely related to various socioeconomic aspects. Due to the good capabilities in obtaining the wind field information over large 3D space, wind remote sensing technologies have greatly helped people in exploring the wind energy, mitigating hazards and etc. However, the current sensing technologies mainly focus on slowly temporal/spatial variational wind field, and lack of fusion processing of different sensors over various weather conditions, which do not meet the requirements of recent applications in aeronautical meteorology, fluid dynamics and many other fields. Therefore, it is urgent for the academic and industrial communities to share the latest research findings on the theories, technologies, and applications of wind remote sensing.

This Special Issue encourages scholars to publish research papers and review articles on the remote sensing mechanisms, sensor instrumentation, detection technologies, information retrieval methods of wind, as well as their applications. Discussions on the challenges and limitations of wind remote sensing and how they can be addressed are also welcomed.

The broad topics include (but are not limited to):
- Remote sensing mechanism of complex wind by various sensors
- Innovations on wind remote sensors (radar, lidar, microwave radiometer, etc) and their instrumentation
- Accurate retrieval and/or forecasting of wind field from remote sensing data
- Fusion processing of different wind sensors over various weather conditions
- Challenges of wind remote sensing technology for future applications
- Potential development of wind remote sensing technology
- Other topics related to wind remote sensing

Schedule
1 Jan 2024, Submission system opening
31 Jul 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 "**Remote Sensing of Wind: Theories, Technologies and 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.

Guest Editors
Jianbing Li, National University of Defense Technology, China (jianbingli@nudt.edu.cn)
Haonan Chen, Colorado State University, USA (haonan.chen@colostate.edu)
Pak Wai Chan, Hong Kong Observatory, China (pwchan@hko.gov.hk)
Ludovic Thobois, Vaisala, Finland (ludovic.thobois@vaisala.com)