



## CALL FOR PAPERS

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

#### Special Issue on

#### “Recent Advances in Atmospheric Remote Sensing and Hydrometeorological Data Sciences”

Remote sensing is critical for weather, climate, and water related research and applications. Over the past few decades, numerous remote sensing instruments (e.g., radars and satellites), techniques and algorithms (e.g., deep learning) have been developed for measuring, modeling, simulating and forecasting the *Earth*'s atmosphere state and hydrologic cycle. A Special Issue of the IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS) is planned for publication, with focus on recent advances in atmospheric remote sensing and hydrometeorological data sciences. It will accept a select number of studies covering, but not limited to, the following topics:

- New sensing techniques, sensors and calibration
- Radar and satellite observations of the atmosphere
- Data assimilation
- Atmospheric radiative transfer
- Cloud and precipitation microphysics
- Remote sensing of hydrometeorological extremes
- Multiscale remote sensing data fusion
- Precipitation identification, classification, estimation, nowcasting, and validation
- Hydrometeorological data analytics and informatics
- AI and machine (deep) learning applications

#### Schedule

February 1, 2021

Submission system opening

June 30, 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 “**Recent Advances in Atmospheric Remote Sensing and Hydrometeorological Data Sciences**” special issue manuscript type.

Please consult <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). For a template in this format please consult the site [http://www.ieee.org/publications\\_standards/publications/authors/author\\_templates.html](http://www.ieee.org/publications_standards/publications/authors/author_templates.html). Please note that as of January 1, 2020, J-STARS will become a fully open-access journal charging a flat rate of \$1250 for each paper.

#### Guest Editors

Prof. Haonan Chen, Colorado State University, USA ([haonan.chen@colostate.edu](mailto:haonan.chen@colostate.edu))

Dr. Renzo Bechini, ARPA- Piemonte, Italy ([renzo.bechini@arpa.piemonte.it](mailto:renzo.bechini@arpa.piemonte.it))

Prof. V. Chandrasekar, Colorado State University, USA ([chandra@colostate.edu](mailto:chandra@colostate.edu))

Prof. Tomoo Ushio, Osaka University, Japan ([ushio@eei.eng.osaka-u.ac.jp](mailto:ushio@eei.eng.osaka-u.ac.jp))