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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue on
“Sensing and Remote Sensing in the Poles”

The poles play a crucial and major role in the climate cycle of the earth. Recently, polar regions are undergoing catastrophic changes due to the amplification effect of global warming. For example, melting glaciers, rising sea levels, disruption in ocean currents etc. In addition, the polar regions also play a major role in maritime trade which also needs precise monitoring of the conditions in the seas in the polar regions.

Hence, measurements in the polar regions are gaining growing importance. In addition to the use of satellite sensing, the use of in-situ sensors is also becoming ubiquitous both in the Arctic as well as in the Antarctic. This special issue will aim to consolidate work from across the globe aimed at sensing the poles (both water and land bodies). We encourage work around the development of new sensing techniques, new sensors, new models as well as new algorithms to this effect.

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

- Use of satellites in polar observation
- Use of ice buoys in polar observation
- Radar for polar observation
- Safety in the poles
- New methods of sensing (like penetrometers and fiber-optics based remote monitoring)

Schedule

Jun 1, 2024, Submission system opening

Feb 28, 2025, Submission system closing

Papers would be reviewed as soon as they are submitted and would be published in an ongoing manner. Hence, the authors do not have to wait till the end of the submission window.

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 “**Sensing and Remote Sensing in the Poles**” 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 since Jan. 1, 2024, IEEE J-STARS, as a fully open-access journal, is charging a flat publication fee \$1,496 per paper.

Guest Editors

Amit Kumar Mishra, Aberystwyth University, UK (amit.mishra@aber.ac.uk)

Tao Che, Chinese Academy of Sciences, China (chetao@lzb.ac.cn)

Adrian Bruce McCallum, University of the Sunshine Coast, Australia (amccallu@usc.edu.au)

Marc De Vos, University of Connecticut, USA (marc.devos@uconn.edu)