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Big Earth Data for Climate Studies

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Deadline for manuscript submissions:

closed (30 November 2024)

Message from the Guest Editors

This Special Issue invites research, review, vision and case study papers on the use of advanced computing techniques, cutting-edge big data analytics, machine learning methods, and any new tools to understand various dimensions of climate change from regional to global scale. Topics include, but are not limited to, the following:

- Big Earth data collection for climate change;
- Preprocessing for analytical-ready data;
- Big Earth data management in a FAIR fashion (find, access, interoperability, and replicable);
- Geospatial data processing;
- Geophysical simulation based on big data;
- Big data visualization and presentation for decision support;
- Building digital twins with big Earth data;
- Open source for climate change;
- New computing methods for climate change;
- Climate change use cases, such as sea level rise, sea ice change, global warming, flooding, wildfire, hurricane, drought, etc.;
- Climate justice – impacts of climate change due to rising sea levels, sunken islands, climate refugees, urban heat island, air quality, health effects, fires, etc.



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Special Issue



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Message from the Editorial Board

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