Special Issue

Nowcasting of Convective Storms Based on Remote Sensing Data Fusion

Message from the Guest Editors

Extreme weather events may have severe impacts to ecosystems, and pose an always increasing threat to society by causing disruption at many levels. To the present, there is still need for further research aiming to improve the prediction accuracy and the capacity to face such weather hazards in a changing climate. Nowcasting - (i.e., 0-6 hour lead time forecasting) - provides the ideal framework to achieve such a goal, whereby near real-time atmospheric observations are an essential basis. Today's state of the art remote sensing technologies offer in fact a unique opportunity for weather science to address this challenging task: satellite platform, ground-based and airborne instruments provide a variety of improved remote sensing data in terms of temporal, spatial, spectral and radiometric resolution. In this SI, scientific community members are invited to submit manuscripts dealing with recent advances in Nowcasting, in terms of new methods, techniques and/or identification of new sets of nowcasting predictors, mainly based on observational RS data integration; papers discussing combination of Numerical Weather Prediction methods and Nowcasting are also welcome.

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Deadline for manuscript submissions

closed (20 November 2023)

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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