

## Special Issue

# GeoAI: Integration of Artificial Intelligence, Machine Learning and Deep Learning with Remote Sensing

### Message from the Guest Editors

This Special Issue focuses on advancements and innovative methods and solutions of Artificial Intelligence (AI) in remote sensing (RS) and Earth observation (EO). In particular, we call for contributions that describe methods and ongoing research. The amount of data generated today almost necessitates the use of AI for the exploration of big data. Still, many AI algorithms are in their infancy regarding a scientific explanation. Researchers have access to a massive pool of a wide range of AI algorithms, but AI needs to be used together with physical principles and scientific interpretation. This Special Issue seeks to clarify how AI methods can be selected and used in a way that they make them practicable and appropriate for RS applications. The performance of these choices may depend on the application case, the theory behind the AI algorithms, and how algorithms and AI architectures are developed and trained. Moreover, the capabilities of novel and hybrid AI algorithms have not yet been sufficiently investigated equally in different fields. There is a need to determine the performance of standalone and hybrid approaches in satellite image analysis.

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### Guest Editors

Dr. Omid Ghorbanzadeh

Dr. Omid Rahmati

Prof. Dr. Thomas Blaschke

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### Deadline for manuscript submissions

closed (9 March 2021)



## Remote Sensing

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## About the Journal

### 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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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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