



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

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Deadline for manuscript
submissions:

closed (9 March 2021)

Message from the Guest Editors

Dear Colleagues,

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.

