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Remote Sensing and Artificial Intelligence Techniques for Ecological-Environment Quality (EEQ)

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Message from the Guest Editor

Anthropogenic activities and climate change are two major factors that are affecting the environment. In the context of sustainable development, the assessment of Ecological Environmental Quality (EEQ) has provided an important knowledge base for environmental health. The improvement in EEQ seems to be an urgent but long-term topic. Therefore, how to support EEQ improvement is crucial.

Recent advances in Remote Sensing (RS) technology have provided abundant satellite data with various spatial and temporal resolutions. EEQ evaluations with RS are carried out by various measures such as Normalized Difference Vegetation Index, Environmental Quality Index, Environmental Sustainability Index, Environmental Performance Index, Ecological Environment Carrying Capacity, and Remote Sensing Ecological Index. Similarly, advancements in computing technology with artificial intelligence has made big data processing and extracting information about eco-environmental changes possible over time from local to global scales. A combination of these two popular techniques can provide real-time or near real-time information on the assessment of EEQ, with a higher performance in most cases.

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