Special Issue

Applications of Artificial Intelligence in the Study of Land Use and Land Cover Change

Message from the Guest Editors

Artificial intelligence has been increasingly used to support the study of coupled land systems, which are complex adaptive spatial systems driven by land use and land cover change. These artificial intelligence approaches comprise machine learning (e.g., artificial neural networks), evolutionary computation, and distributed artificial intelligence (e.g., agent-based models, cellular automata, and swarm intelligence). This Special Issue aims to explore various applications of artificial intelligence approaches to the study of land use and land cover change, including but not limited to, natural resource management, agricultural land management, urban development, archaeology, public health, and transportation. The Special Issue will focus on investigating how cutting-edge artificial intelligence approaches advance the spatiotemporally explicit land change modeling and associated knowledge in these domain studies. This investigation will provide insights into the complexity of related processes and, thus, the sustainability of coupled land systems.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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