





an Open Access Journal by MDPI

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

Guest Editors:

#### Dr. Wenwu Tang

Center for Applied Geographic Information Science and Department of Geography and Earth Sciences, University of North Carolina at Charlotte, 9201 University City Blvd, Charlotte, NC 28223, USA

#### Prof. Dr. David A. Bennett

Department of Geography and Sustainability Sciences, the University of Iowa, Iowa City, IA 52242, USA

Deadline for manuscript submissions:

closed (30 September 2019)

# **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.









CITESCORE 5.8

an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

## **Message from the Editor-in-Chief**

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 sustainability related to 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 and applications of sustainability-based measures and activities.

#### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

### **Contact Us**