

## Special Issue

# Machine Learning and Big Data in Geosciences

### Message from the Guest Editors

The geosciences have been largely driven by the use of data. Recent scientific and professional developments in data acquisition in the geosciences and data analysis using big data and machine learning open new opportunities for an intensive use of data in geosciences. We are pleased to invite you to submit a paper for this Special Issue titled “Big Data and Machine Learning in Geosciences”, which aims to share the latest scientific and professional developments and applications in the use of massive data in the geosciences and related fields, with a focus on the following issues:

- Role of data science in solving traditional and emergent problems in geosciences.
- Progresses in data collection in geoscience (remote sensing, smart sensors, open data, social media, and mobile applications).
- Specificities and patterns of data in geosciences, data cleaning.
- Combination of geoscience-based design methods with artificial intelligence methods (machine learning and deep learning).
- Role of visualization and visual analytics in geosciences
- Needs and perspectives for the use of data in geosciences.

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### Guest Editors

Prof. Dr. Isam Shahrouf  
Dr. Zhongqiang Liu  
Dr. Hanbing Bian

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### Deadline for manuscript submissions

closed (30 April 2022)



## Smart Cities

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Impact Factor 5.5  
CiteScore 14.7



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## About the Journal

### Message from the Editor-in-Chief

As urban environments continue to evolve, Smart Cities serves as a key platform for sharing innovative research that addresses the complexities of modern urban life. Our journal provides a space for interdisciplinary dialogue and knowledge exchange on the latest advancements in smart city technologies and practices. We prioritize research that not only pushes the boundaries of scientific understanding but also has practical implications for improving urban living, sustainability, and governance. We welcome contributions from diverse fields that bring fresh perspectives to urban challenges, from smart infrastructure and IoT integration to data-driven decision-making and sustainable development. Through a combination of rigorous peer-review and rapid publication, we aim to disseminate impactful research that fosters the development of smarter, more resilient cities.

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### Editor-in-Chief

Prof. Dr. Pierluigi Siano  
Department of Management and Innovation Systems, University of  
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### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Urban Studies) / CiteScore - Q1 (Urban Studies)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.8 days after submission; acceptance to publication is undertaken in 4.5 days (median values for papers published in this journal in the first half of 2025).