# **Special Issue**

# Geospatial Big Data and Machine Learning Opportunities and Prospects

# Message from the Guest Editors

The increasing availability of large, dynamic data sets creates tremendous opportunities and challenges for empirical science. As an editorial in Nature pointed out, "Big Data" is relevant not only because it is big, but it is also complex. Further, the growth in Big Data has been accompanied by new computational methods that include the use of "machine learning" methodologies to process and make sense of such large datasets. Machine learning algorithms can be applied to geospatial Big Data for a variety of reasons, including enhancing our understanding of causal dynamics in systems, capturing those processes, and predicting system states. Better integration of geospatial Big Data with machine learning algorithms presents opportunities to scale geospatial data analysis over larger geographic extents, represent dynamic system behaviors in near real-time, and use model predictions to anticipate and control networked devices and sensors.

### **Guest Editors**

Dr. Raja Sengupta

Department of Geography and School of Environment, McGill University, 805 Sherbrooke St W., Montreal, QC H3A 0B9, Canada

#### Dr. Liliana Perez

Laboratory of Environmental Geosimulation (LEDGE), Department of Geography, Université de Montréal, 1375 Ave. Thérèse-Lavoie-Roux, Montreal, QC H2V 0B3, Canada

### Deadline for manuscript submissions

closed (30 June 2021)



# ISPRS International Journal of Geo-Information

an Open Access Journal Published by MDPI

Impact Factor 2.8 CiteScore 7.2



mdpi.com/si/39276

ISPRS International Journal of Geo-Information Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijgi@mdpi.com

mdpi.com/journal/ ijgi





# ISPRS International Journal of Geo-Information

an Open Access Journal Published by MDPI

Impact Factor 2.8 CiteScore 7.2



# **About the Journal**

# Message from the Editor-in-Chief

The ISPRS International Journal of Geo-Information invites you to submit research articles, reviews, and reports covering topics of the whole domain of geo-information. Although the journal was only founded in 2012, it has already achieved wide recognition in the scientific community. We are proud that since April 2015, our journal is indexed by the SCIE of the Web of Science. As Editor-in-Chief, I encourage you to consider IJGI for your scientific papers and would be pleased to welcome you as authors.

### Editor-in-Chief

## Prof. Dr. Wolfgang Kainz

Cartography and Geographic Information Science, Department of Geography and Regional Research, University of Vienna, Universitätsstr. 7, A-1010 Vienna, Austria

## **Author Benefits**

### **Open Access:**

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

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), GeoRef, PubAg, dblp, Astrophysics Data System, Inspec, and other databases.

## **Journal Rank:**

JCR - Q2 (Geography, Physical) / CiteScore - Q1 (Earth and Planetary Sciences (miscellaneous))

