

## Special Issue

# GIS Software and Engineering for Big Data

### Message from the Guest Editors

The increasing spread and usage of big data is changing the way data are managed and analyzed. The capabilities of traditional GIS (geographical information system) software are often limited in dealing with big data challenges, such as versatile data forms, streaming processing, large scale parallel computing, and dynamic mapping and visualization. Significant improvements are needed in innovative software development and engineering applications of GIS, such as dynamic observations of sensors including VGI, new data models and indexing algorithms, novel methods in mapping and visualization, data mining and analysis technologies for big geospatial data, et al. As a result, the GIS software and engineering domain has seen increasing applications for advanced information technologies, such as the map/reduce computing paradigm, stream processing, NoSQL/NewSQL, block chain, and artificial intelligence technologies. This Special Issue intends to collect the latest and future directions in GIS software development and engineering applications to deal with spatio-temporal big data. We invite authors to submit their original papers.

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### Guest Editors

Prof. Dr. Peng Yue

Prof. Dr. Danielle Ziebelin

Dr. Yaxing Wei

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### Deadline for manuscript submissions

closed (31 December 2022)



## ISPRS International Journal of Geo- Information

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### 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.

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### Editor-in-Chief

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