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Multidimensional and Multiscale GIS

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Deadline for manuscript
submissions:

closed (30 April 2019)

Message from the Guest Editors

This Special Issue focuses on the multidimensional modelling and representation of geospatial data. This includes spatial dimensions but also temporal and scale dimensions. We invite papers with original contributions, proposing new algorithms and data structures to handle geospatial data and their representation at multiple scale. Papers presented in the ISPRS Commission IV Symposium in Delft, October 2018 will be considered if they are extended to full journal papers. Topics of this Special Issue mainly focus on, but are not limited to:

- Geographic and spatial information systems
- Algorithms and data structures for modelling spatial phenomena
- Multiple representation of geospatial phenomena
- Topological data structures for multidimensional geometries
- Data structures for multiscale representations
- Algorithms for handling multiple representations
- Algorithms and data structures for terrain modelling
- Machine learning utilizing multidimensional and multiscale models
- Application of multidimensional models to city/urban information systems, BIM-GIS integration, infrastructure monitoring, disaster management, natural resources (forestry, mining, geology, etc.)



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Special Issue



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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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