



Big Geo-Spatial Data and Advanced 3D Modelling in GIS and Satellite

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Deadline for manuscript
submissions:

20 September 2024

Message from the Guest Editors

Remote sensing has become widespread in the last decade thanks to the advancement of sensing devices, coupled with both satellites and aerial vehicles such as UAVs (unmanned aerial vehicles). They are able to generate massive datasets with a high spatial resolution, which involves many different challenges for their processing. The captured information has a marked spatial character and can change over time across different captures, requiring spatiotemporal information systems. On the other hand, the capture of a unique data type may not be sufficient, requiring multi-source data fusion of heterogeneous data. Furthermore, the real world is three-dimensional, and 3D modelling describes the geometry and appearance of real scenarios, providing the user with a more accurate scene understanding. In summary, challenges are focused on techniques for storage, data mining, spatiotemporal analysis, edge computing, machine and deep learning, object detection or semantic classification, among many others. Advances in this area have a direct impact on broad fields of knowledge such as precision agriculture, ecology or territorial configuration.





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