

Special Issue

Deep Learning and Computer Vision for GeoInformation Sciences

Message from the Guest Editors

In recent years, significant progress has been made in the combined fields of deep learning (DL) and computer vision (CV), with applications ranging from driverless cars to facial recognition to robotics. There is a natural synergy between the geoinformation sciences and DL and CV due to the vast quantities of geolocated and time-stamped data being generated from various sources, including satellite imagery, street-level images, video, airborne and unmanned aerial system (UAS) imagery, social media data, text data, and other data streams. In the field of remote sensing, in particular, significant progress has already been made in object detection, image classification and scene classification, amongst others. More recently, DL architectures have been applied to heterogeneous geospatial data types, such as networks, broadening their applicability across a range of spatial processes. This Special Issue aims to collate the state of the art in deep learning and computer vision for the geoinformation sciences, from the application of existing DL and CV algorithms in diverse contexts to the development of novel techniques.

Guest Editors

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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.

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