

Special Issue

Deep Learning Meets GIR: Recent Advances in Geographic Information Retrieval

Message from the Guest Editors

In the last decade, Deep Learning has transformed how we process text; word embeddings have transformed the way we measure semantic similarities, language models with astonishing generation capabilities have been introduced, and neural architectures represent now the state of the art in various classification tasks. Textual information represents also an important source of information for the Geographic Information Retrieval (GIR) task: it is necessary to process text to extract toponyms, determine the geographic scope of a document, disambiguate and geolocate text, and of course to calculate document similarities and rank them with respect to a search query. With these premises, it is clear that recent Deep Learning techniques may have a substantial impact on the results in Geographic Information Retrieval. Therefore, to highlight the progress in this field, in this Special Issue we welcome contributions that show how Deep Learning has been applied to GIR: from toponym resolution to retrieval and classification tasks. Any submission that highlights the integration of geographical and textual knowledge via neural methods is also welcome.

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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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