

Unlocking the Power of Geospatial Data: Semantic Information Extraction, Ontology Engineering, and Deep Learning for Knowledge Discovery

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Message from the Guest Editors

Over recent years, there has been a tremendous increase in digital information resources, including a significant amount of semi-structured data, such as XML files and metadata records, as well as unstructured data, such as scientific reports, news articles, social media, and historical archives. These data include a wealth of information about places, events, phenomena, geospatial concepts, and relations.

Semantic information extraction aims to make this information explicit, enabling computer systems to make sense of the content and facilitate knowledge discovery and organization. Semantic analysis and visualization approaches play a significant role in further discovering immanent aspects of these data.

Lately, deep learning algorithms have been used to automatically extract patterns and relationships from large amounts of data, including unstructured and semi-structured data. By combining deep learning approaches with semantic web techniques, such as ontologies and linked data, more powerful and effective intelligent systems can be developed that can reason over large-scale knowledge bases and perform complex tasks.



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