



## Knowledge Graph-Guided Deep Learning for Remote Sensing Image Understanding

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### Message from the Guest Editors

Dear Colleagues,

As one of the most significant achievements in the artificial intelligence (AI) domain, deep learning has achieved tremendous success in remote sensing image understanding. As one kind of data-driven methods, it is incredibly difficult for deep learning to leverage the prior domain knowledge. Thus, deep learning-based methods lack the basic but vital cognition and inference ability.

As another research hotspot in the field of AI, knowledge graphs work by explicitly representing the domain concepts and have strong knowledge representation capabilities and semantic reasoning capabilities. Therefore, combining knowledge-driven knowledge graph reasoning and data-driven deep learning would be a promising research avenue to realize intelligent remote sensing image interpretation.

This Special Issue calls for innovative remote sensing image understanding theory and methods by combining deep learning and knowledge graph reasoning.





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## Message from the Editor-in-Chief

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