



Advances in AI Technology for Remote Sensing Image Processing

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Message from the Guest Editors

Dear Colleagues,

This Special Issue highlights pioneering research that leverages advanced AI techniques—including deep learning, reinforcement learning, transfer learning, and long short-term memory (LSTM) networks—to transform the processing and analysis of remote sensing data. Emphasis is placed on the application of cutting-edge methods, such as causal analysis and physics-informed machine learning, in remote sensing. Additionally, the Special Issue will explore the development and advancements in knowledge graphs and large-scale foundational models, which are pivotal in enhancing the accuracy and interpretability of remote sensing analyses. These innovations are propelling the automation of remote sensing workflows, enabling efficient and scalable solutions. The Special Issue will also address critical technical challenges in making remote sensing data AI-READY, focusing on improving data quality, enhancing model interpretability, and optimizing computational efficiency. This Special Issue aims to provide a comprehensive overview of how AI is revolutionizing remote sensing, paving the way for more intelligent, automated, and reliable data processing solutions.





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Message from the Editor-in-Chief

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