



## Convolutional Neural Networks Application in Remote Sensing

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### Message from the Guest Editors

Remote sensing is crucial in a plethora of applications ranging from detecting land use and cover to observing climate and urban changes and from controlling forest fires to identifying crop production and damage. Remote sensing began in the 1960s and 1970s with the development of image processing of satellite imagery, but it greatly benefited from the advances in machine and deep learning. Today, convolutional neural networks can process remote sensing images with high speed and achieve impeccable accuracy and robustness in several applications. However, technological breakthroughs are still needed to enhance the performance of remote sensing applications and facilitate their use in real life.

This Special Issue of the *Journal of Imaging* aims to feature reports of recent advances in remote sensing technology, novel deep network architectures to enhance the accuracy and robustness of remote sensing applications, such as object segmentation and change detection, and innovative real-time applications that can be employed in real life to cover important needs in remote sensing.





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## Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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