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Convolutional Neural Networks for Object Detection

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Message from the Guest Editors

Object detection is a fundamental problem within remote sensing imaging analysis. Recent advances in hardware and software capabilities have allowed for the development of powerful machine-learning-based object detection techniques. In particular, deep learning models have received increased interest due to their great potential for extracting very abstract and descriptive feature data representations from original inputs. Convolutional-based neural models have demonstrated a great generalization power coupled with a strong and automatic feature extraction capability, allowing them to reach an outstanding performance and positioning themselves as the current state of the art in many tasks related to computer vision, in particular in image classification tasks. There is still so much we do not know about deep learning models related to object detection in the remote sensing field.

This Special Issue aims to foster the application of advanced deep learning algorithms to perform accurate object detection applied within the remote sensing field, and it is an excellent opportunity for the dissemination of recent results and cooperation for further innovations.

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Message from the Editorial Board

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