Special Issue

Semantic Segmentation of High-Resolution Images with Deep Learning

Message from the Guest Editors

Thanks to innovative imaging and aerial photography technology, a large number of aerial hyperspectral and multispectral images can be acquired conveniently and quickly, which is useful for remote sensing applications, such as forest-cover measurement, land-use investigation, and urban-plan estimation. Different from natural images, high-resolution RSIs contain numerous object categories with the presence of redundant object details; therefore, in addition to taking into account the specific characteristics of RSIs, a semantic segmentation method has to effectively handle interclass distinction and intraclass consistence. Additionally, feeding a full high-resolution image as an input to a DL model is nearly impossible, where the computational complexity of a segmentation system increases excessively. For this Special Issue, we are soliciting original contributions of pioneer researchers on high-performance semantic segmentation of high-resolution RSIs, which exploits deep learning to address the aforementioned theoretical problems.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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