Special Issue

Crowd-Sourced Data and Deep Learning in Remote Sensing: Methods and Applications

Message from the Guest Editors

Although we are living in a global Big Data era, the challenges to intelligent satellite image interpretation still remain. The advances in deep learning have significantly improved image processing capacity. The number and variety of training sample data, however, is insufficient for processing the large volume of multi-source satellite images. From a different research perspective, the evolution and exponential growth of modern information technology (e.g., smart mobile devices) has expedited the availability of large amounts of data, the so-called crowd-sourced data. The crowd-sourced data produced by people worldwide, either accidentally or intentionally, is proven to be an essential and cost-effective tool in a wide range of practical applications, such as training sample collection. To date, only a few studies have examined the integrated applications of crowd-sourced data and deep learning in the community of remote sensing, and thus further studies are necessary in order to address this topic.

Guest Editors

Dr. Zelang Miao

Prof. Dr. Hao Wu

Dr. Dongyang Hou

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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