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Computer Vision and Machine Learning Application on Earth Observation

Guest Editor:

Dr. Juan Ignacio Arribas
Department of Electrical Engineering, University of Valladolid, Valladolid, Spain

Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editor

With the rapid development of computing, the interest, power, and advantages of automatic computer-aided processing techniques in science and engineering have become clear—in particular, automatic computer vision (CV) techniques together with machine learning (ML, a.k.a. computational intelligence or machine intelligence) systems, in order to reach both a very high degree of automation and high accuracy. CV in conjunction with ML may be applied to a high number of problems of interest, such as in remote Earth sensing, mainly through different nature remote imaging and remote video processing approaches that have been made possible due to the very rapid development and growth of high-resolution, high-SNR, and low-cost imaging sensors and devices of various types, including single or multiple sensor, visible-range CCD/CMOS hyper-spectral, multi-spectral, infrared, ultraviolet, and thermal, to name a few.

The application of CV and ML to remote Earth observation and sensing is becoming highly attractive and popular, making it possible to reach a very high degree of autonomous functioning, accuracy, and promising results.

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Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Journal Rank: JCR - Q1 (*Geosciences, Multidisciplinary*) / CiteScore - Q1 (*General Earth and Planetary Sciences*)

Contact Us

Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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remotesensing@mdpi.com
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