Special Issue

Application of Remote Sensing and GIS in Agricultural Engineering

Message from the Guest Editors

It is well recognized that the traditional means of agricultural production cannot meet the growing demand for high-quality food around the world. Fortunately, precision agriculture management and agricultural engineering applications with remote sensing and GIS provide a hopeful way of capturing crop growth. Recently, many new technologies (e.g., deep learning) and multisource satellite remote sensing data (e.g., Landsat, Sentinel-1/2, and Planet) are drawing more and more attention for practical application in agricultural engineering. This means that agriculture production is an important bridge connecting carbon and water dynamics across the agroecosystem. Therefore, to advance the understanding of the role of remote sensing and GIS in agricultural engineering, it is necessary to (1) monitor and manage agriculture production using multisource satellite remote sensing images with advanced deep learning algorithms; (2) capture and quantify the carbon and water parameters during agriculture production; and (3) evaluate the impact of different water and heat conditions on agriculture production.

Guest Editors

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Message from the Editor-in-Chief

AgriEngineering (ISSN 2624-7402) is an international open access, open-source, and cross-disciplinary scientific journal on the engineering science of agricultural and horticultural production. Our aim is to encourage scientists to publish their experimental and theoretical research, along with the full set of schematics, source-code, and mechanical design models leading to accelerated and rapid dissemination of leading-edge technologies emerging in agricultural, environmental, and agronomic engineering. *AgriEngineering* publishes articles, technical notes, reviews, commentaries, and case/field reports, as well as Special Issues on particular subjects.

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