Special Issue

Agrometeorology Tools and Applications for Precision Farming

Message from the Guest Editors

Recent development of agrometeorology tools and methods aimed at precision farming relies on automatic weather station network, wireless sensor network, geospatial technologies (satellites, GIS, GNSS) (OPTICAL/SAR/LIDAR), variable rate technology, UAVS, ground-based sensing, high resolution weather forecast, dynamic crop models, and artificial Intelligence (AI) and machine learning (ML) tools. The potential of precision agriculture for smart farming could be visualized through imageries taken from high resolution satellite imageries, Unmanned Aerial Vehicles (UAVs) or any other platform; meteorological data from weather stations/satellites; and farmers practices with smart phones. The aim of this Special Issue is to foster advances in agrometeorology and precision that includes, but are not limited to, the following topics: Agrometeorological indices and climatic data tools, Crop simulation models (CSM) Integrated use of remote sensing and crop model, Use of geospatial technologies, weather forecast, and AI/ML tools, Agrometeorological programs and software, UAVs, tower-mounted, and air-borne sensors, Application of satellite sensors (SAR/GNSS/LIDAR).

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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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