Special Issue

Sensor-Based Agrivoltaic Technology and Crop Monitoring Systems for Greater Sustainability

Message from the Guest Editors

The need for increased renewable energy production has increased due to socio-political conditions and the related energy crisis. The main international and European policies encourage new technologies to produce green energy with significant funding. Agrivoltaic (AGV) represents an innovative technology to create a synergy between energy and agricultural production without generating soil consumption. To ensure this energy, to increase knowledge of the interaction of this technology with soil, crops and the level of mechanization, however, crop monitoring tools and the main agronomic parameters, such as multispectral cameras, drones and remote sensing, vegetation indices are needed in relation to the AGV systems. These monitoring systems are essential to guarantee continuous and constant control and to guarantee a high level of sustainability of AGV. Key words: energy; agriculture; mechanization; crop; monitoring systems; policy

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