

Special Issue

Crop Monitoring and Weed Management Based on Sensor-Actuation Systems

Message from the Guest Editors

The need to produce more and high-quality food contrasts with the increasing social and legislative pressure to reduce chemical inputs in agriculture. Remote sensing, precision application technologies, artificial intelligence, and digital data management contribute to generate reliable agricultural research and improve food production. Sensor and actuation systems offer promising alternatives to accomplish precision farming and data digitalization. This smart farming approach helps farmers to better monitor crops and optimize practices, adapted to changing environmental factors. This Special Issue aims to combine current research and developments, concerning novel sensors and methodologies together with their specific applications in crop monitoring and weed management. Papers demonstrating innovative ways in which sensor and actuation systems are implemented in precision agriculture, such as plant stress identification, plant nutrition status assessment and fertilization and weed management, precision application or environmentally friendly agricultural technologies, are highly welcome.

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Message from the Editor-in-Chief

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