## **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.

### **Guest Editors**

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### Deadline for manuscript submissions

closed (15 December 2023)



## Agriculture

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### About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

### Editor-in-Chief

Prof. Dr. Les Copeland Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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