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Improving Functioning of Soil–Plant Systems Using the Application of Sustainable and Intelligent Methods

Guest Editors:

Dr. Xuguang Xing

Dr. Ankit Garg

Dr. Long Zhao

Deadline for manuscript submissions:
closed (20 May 2023)

Message from the Guest Editors

This Special Issue invites original research, technology reports, modeling approaches and methods, and reviews on sustainable management and intelligence in soil–plant systems. The topics of interest include (but are not limited to):

- Sustainable management (e.g., optimized irrigation and fertilizer practices, cropping systems, and agronomic strategies) on the improvement of soil quality, plant growth, productivity, and tolerance to drought;
- Implications of intelligent methods (e.g., sensing techniques, multiple scales of phenotyping platforms) on soil and vegetation health monitoring;
- Interactions between agricultural water/fertilizer management and the environment;
- Interactions between soil and plant in contaminated soils;
- New biomaterials for improving water use efficiency in soil–plant systems;
- Applications of unsaturated soil concept in sustainable agriculture;
- Development of IoT-based devices and APPs for smart agriculture.

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Graham Centre for Agricultural Innovation, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Message from the Editor-in-Chief

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Agronomy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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