

Special Issue

Improving Functioning of Soil–Plant Systems Using the Application of Sustainable and Intelligent Methods—2nd Edition

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. Topics of interest include (but are not limited to) the following:

- 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 plants in contaminated soils;
- New biomaterials for improving water use efficiency in soil–plant systems;
- Applications of the unsaturated soil concept in sustainable agriculture;
- Development of IoT-based devices and APPs for smart agriculture.

Guest Editors

Dr. Xuguang Xing

Key Laboratory for Agricultural Soil and Water Engineering in Arid Area of Ministry of Education, Northwest A&F University, Xianyang 712100, China

Dr. Ankit Garg

Department of Civil and Smart Construction Engineering, Shantou University, Shantou 515063, China

Deadline for manuscript submissions

closed (30 April 2025)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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