

Special Issue

Precision Operation Technology and Intelligent Equipment in Farmland—3rd Edition

Message from the Guest Editors

The use of precision operation and intelligent equipment in fields is at the frontier of modern agricultural technology development. In recent years, experts have conducted much research on the interaction mechanism of crops, soil, and other environmental factors; the rapid acquisition of information; and the employment of precise control models of crop production and intelligent equipment, using modern information and intelligent control technology. These remarkable achievements have played an important role in updating traditional agriculture and developing modern agriculture practices with high yield, quality, efficiency, ecological sustainability, and safety. This Special Issue welcome papers involved in research on precision operation and intelligent equipment in fields. Specific topics include, but are not limited to, the following:

- Agricultural sensing mechanisms and new sensors;
- Machine–soil–crop interaction mechanisms;
- Crop production control models;
- New agricultural machinery and field robots;
- Intelligent control of agricultural machinery;
- Unmanned operations.

Guest Editors

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Deadline for manuscript submissions

closed (15 October 2025)



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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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