

Special Issue

“Smart Agriculture” Information Technology and Agriculture Cross-Discipline Research and Development

Message from the Guest Editors

Our goal is to explore and support the evolution of emerging digital technology applications in agriculture and biology, including but not limited to agriculture, data collection, data mining, bioinformatics, genomics and phenomics, as well as applications of machine learning and artificial intelligence. Topics of high interest include the capture and curation of biological “big data,” research on multi-spectrum analysis, the assembly of complex genetic sequencing fragments, and structural gene predictions coupled with intermediate structures to predict phenotypes. In this context, novel data structures are required to capture predictive structures in the path from genome type to phenotype, together with new techniques to capture identify the regularity of biological data. Finally, multiple-sources-based monitoring and decision making for plants, water, and nutrients are required, with a research focus on the utilization of remote sensing and drone sensing to compute and predict plant water usage.

Guest Editors

Prof. Dr. Jian Zhang

Prof. Dr. Randy G. Goebel

Prof. Dr. Zhihai Wu

Deadline for manuscript submissions

closed (30 April 2023)



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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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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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