"Smart Agriculture" Information Technology and Agriculture Cross-Discipline Research and Development

Guest Editors:

Prof. Dr. Jian Zhang
1. Department of Biology, University of British Columbia, Okanagan, Kelowna, BC V1V 1V7, Canada
2. Faculty of Agronomy, Jilin Agricultural University, Changchun 131018, China

Prof. Dr. Randy G. Goebel
Centre for Machine Learning, Department of Computer Science, University of Alberta, Edmonton, AB T6G 2R3, Canada

Prof. Dr. Zhihai Wu
Faculty of Agronomy, Jilin Agricultural University, Changchun 131018, China

Deadline for manuscript submissions:
closed (30 April 2023)

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.

mdpi.com/si/126169

Special Issue

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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