

Special Issue

Advanced Image Collection, Processing, and Analysis in Crop and Livestock Management

Message from the Guest Editors

The integration of imaging technology in agriculture has evolved significantly from basic field photography to sophisticated data collection systems. This Special Issue underscores the value of image-based data in agriculture, providing insights into crop health and livestock management. The focus extends to innovative image analysis techniques that enhance crop and soil monitoring, disease detection, and yield predictions through data from sensors and images. In livestock management, AI-driven image analysis contributes to sophisticated health monitoring and behavioral analytics, enabling strategies such as early illness detection and optimized feeding. The issue further examines the inclusion of RGB, depth, multispectral, and hyperspectral imaging to augment the data quality and utility. Additionally, the value of quick, mobile imaging processes tailored for modern agriculture's fast-paced needs is highlighted, alongside the role of edge-computing in managing the significant 'digitization footprint' that these advanced imaging technologies bring to agricultural management.

Guest Editors

Dr. Weizhen Liang

Panhandle Research and Extension Center, University of Nebraska-Lincoln, Scottsbluff, NE, USA

Dr. Jingqiu Chen

Biological Systems Engineering, College of Agriculture and Food Sciences, Florida A&M University, Tallahassee, FL, USA

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

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Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental
Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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