

Special Issue

Neural Networks and Image Analysis in Intelligent Agricultural Engineering

Message from the Guest Editor

The agricultural sector is undergoing a transformation based on precision agriculture and digital livestock farming technologies, which has led to significant improvements in addressing challenges and accelerating the transition to sustainable food systems. but substantial further progress is needed. Smart farming based on digital agriculture principles and innovative governance models requires more precise and real-time platforms for the enhancement of crop production, animal welfare, and productivity.

Several challenges need to be overcome to develop efficient analytics for the dynamic and automated processing of the temporal-spatial distribution of soil, crops, animal, and environments in real time. hence, there is a need for deep learning and advanced machine learning approaches for tackling the challenges of big data and real-time series prediction for developing novel solutions in the agrifood domain. This Special Issue calls for papers concerning the role of machine vision, sensor-enabled big data applications, and the implications of neural networks for smart agricultural applications.

Guest Editor

Dr. Suresh Neethirajan

Department of Animal Science & Aquaculture, Faculty of Agriculture & Computer Science, Dalhousie University, 6050 University Ave, Halifax, NS B3H 1W5, Canada

Deadline for manuscript submissions

closed (15 June 2023)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/152370

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

[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)