

Special Issue

Precision Livestock Farming and Artificial Intelligence for Sustainable Livestock Systems

Message from the Guest Editors

Livestock farming is undergoing a significant transformation driven by the ongoing agricultural and livestock technological revolution. In this evolving landscape, Precision Livestock Farming (PLF) has emerged as a groundbreaking paradigm, leveraging advanced sensors, actuators, and data-driven methodologies to enhance farm management and decision-making. The integration of sensor-based technologies, such as wearable sensors, image analysis, and bioacoustics monitoring, allows for the continuous collection of vast amounts of data, which requires advanced computational techniques to process, interpret, and apply this information effectively. These advancements facilitate early disease detection, stress assessment, automated feeding systems, and individualized animal care strategies, ultimately leading to more efficient, resilient, and sustainable livestock production. This Special Issue aims to bring together innovative research at the intersection of PLF, AI, and data analytics, highlighting the latest innovations in sensor technology, real-time data processing, and smart decision-making frameworks.

Guest Editors

Dr. Javier Plaza

Faculty of Agricultural and Environmental Sciences, University of Salamanca, Avda. Filiberto Villalobos 119, 37007 Salamanca, Spain

Prof. Dr. Carlos Palacios Riocerezo

Faculty of Agricultural and Environmental Sciences, University of Salamanca, Avda. Filiberto Villalobos 119, 37007 Salamanca, Spain

Deadline for manuscript submissions

closed (20 September 2025)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8



mdpi.com/si/234959

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 4.5
CiteScore 7.8



[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, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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), GEOBASE, PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

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