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.

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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.

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