Special Issue

New Management Technologies for Precision Livestock Farming

Message from the Guest Editors

We invite original research articles, reviews, and case studies that explore the application of engineering principles and technological advancements to enhance productivity, improve animal welfare, reduce environmental impact, and optimize resource utilization in livestock farming. This Special Issue will cover, but is not limited to, the following areas:

- Sensor technologies (wearable, environmental, remote sensing) for real-time monitoring of animal health, behavior, and physiological parameters.
- Automated animal identification and tracking.
- Data analytics for disease early detection, prediction of production traits, and optimization of farm operations.
- Image processing and computer vision for animal monitoring and welfare assessment.
- Predictive modeling for feed conversion, growth rates, and environmental conditions.
- Smart ventilation and climate control systems in animal housing.
- Non-invasive diagnostic tools and early warning systems for diseases.
- Automated systems for stress detection and welfare assessment.
- Development of platforms for integrating diverse farm data.
- Decision support tools for optimized management practices.

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Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.6 days after submission; acceptance to publication is undertaken in 5.4 days (median values for papers published in this journal in the first half of 2025).