



## Advancing Animal Welfare: Precision Livestock Farming Technologies for Monitoring and Preventing Abnormal Behavior

Guest Editors:

**Dr. Hao Li**

College of Water Resources and  
Civil Engineering, China  
Agricultural University, Beijing  
100193, China

**Dr. Xiaoshuai Wang**

College of Biosystems  
Engineering and Food Science,  
Zhejiang University, Hangzhou  
310058, China

**Dr. Qianying Yi**

Department of Engineering for  
Livestock Management, Leibniz  
Institute for Agricultural  
Engineering and Bioeconomy,  
Potsdam, Germany

Deadline for manuscript  
submissions:

**closed (15 May 2024)**

### Message from the Guest Editors

The welfare of animals has been a concern for centuries. However, it is only in recent decades that researchers have begun to focus on the monitoring and prevention of abnormal animal behavior. With various advances in technology, there are now more opportunities to detect and prevent abnormal animal behavior, which can have a significant impact on animal welfare.

This Special Issue aims to highlight the latest innovations in monitoring and preventing abnormal animal behavior. We hope to showcase cutting-edge research that is advancing our understanding of animal behavior and welfare. The scope of this Special Issue covers a wide range of topics, from the use of CFD for animal environment optimization to the development of wearable sensors for animal behavior tracking. The articles in this Special Issue will cover a broad range of topics related to the monitoring and prevention of abnormal animal behavior, e.g., precision indoor positioning, environment control, the automatic monitoring of animals, behavior and stress, remote disease diagnosis, and environmental hazard emission control.





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## Contact Us

---

Agriculture Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agriculture  
agriculture@mdpi.com  
X@AgricultureMdpi