Special Issue

Animal Production in the Artificial Intelligence Era: Advances and Applications

Message from the Guest Editors

Applications of artificial intelligence (AI) in animal production include, are but not limited to, measuring, monitoring, and managing animal production systems to enhance profitability, production, and health event forecasting, real time prediction, and decision support tools. To accomplish that, the integration of sensors, hyper-spectral, MIR/NMR, imaging, and omics data to phenomics data for the prediction of performance, health, welfare, and behavior, reproduction or even breeding values, and selection decisions are inevitable and bring new challenges and opportunities to the field. Our aim with this Special Issue is to invite the precision animal farming community to present their latest cutting-edge research in artificial intelligence applied to animal production. Original research, reviews, or commentary papers with a focus on advancements of AI in real-world animal production applications, health and welfare, reproduction, genetics, and breeding programs are especially encouraged to be submitted to this Special Issue.

Guest Editors

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Dr. Sajjad Toghiani

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Deadline for manuscript submissions

closed (31 March 2025)

About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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