Special Issue

Machine Learning and Statistics Applied to Livestock —Omics Data

Message from the Guest Editors

Nowadays, the data collected in the livestock sector (phenotypes, omics data, etc.) could be considered as "big data". For this reason, "classical" statistical methods and pipelines may no longer be sufficient to dissect the biology behind the data. The aim of this Special Issue is to develop new pipelines and methods and to identify alternative uses for existing methods, in particular for machine learning (ML) and artificial intelligence (AI) algorithms. The results could be compared with classical statistical methods. Omics data, including genomic (WGS, SNP array, etc.), transcriptomic and metagenomic, among others, will be explored along with connected metadata from the bred animals or the hosted microorganism (in the feces, gut, rumen, etc.). The idea is to apply the aforementioned methods to different kind of analyses, for example GWAS, genomic selection and biodiversity, in general modelling and prediction.

Guest Editors

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Dr. Daniele Pietrucci

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Deadline for manuscript submissions

closed (31 July 2024)

Animals

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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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