Special Issue

Artificial Intelligence in Livestock Farming

Message from the Guest Editors

In recent years, more and more sensor technologies are available for applications in livestock husbandry systems and are not even limited to research farms. From the research perspective, a huge task is to develop systems to work with these data, such as assistance for stockpersons in animal management and culling decisions. Moreover, monitoring animal welfare is of high importance, and new knowledge on assistance in animal welfare monitoring is needed. Artificial intelligence (AI) as a method is not new, but going along with rapidly increasing availability in data storage and, more importantly, working memory, these methods and algorithms received an enormous drive. Further developments show the great potential for applications in livestock farming regarding various tasks and species. This Special Issue focuses on new research results regarding the application of AI in livestock farming regardless of species, husbandry system, or ready-to-use level in commercial farming. The monitoring of animal-related characteristics such as behavior or welfare issues is welcome as well as monitoring housing environments such as climate or bedding material.

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