Special Issue

Approaches to Machine and Deep Learning, Big Data or Modern Analytical Methods in the Agri-Food Industry

Message from the Guest Editors

In this issue, topics of interest include, but are not limited to, the following:

- Classification and prediction models, machine and deep learning.
- Analytical methods, including spectroscopy, chromatography, image analysis and computer vision, electron microscopy and microbiological methods.
- Quality control in food production and distribution.
- Precision agriculture, yield forecasting, process optimization.
- New product development and innovation.
- Data collection and management.

In food production, machine learning or deep learning make it possible to analyze vast quantities of data, identify patterns and predict quality. In agriculture, by employing technologies such as remote sensing, field sensors and geospatial data analysis, farmers can make better-informed decisions, resulting in enhanced productivity and minimized environmental impact. In innovation and new product development, image analysis and computer vision technologies enable the automatic sorting and quality assessment of products, accelerating production processes.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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