Special Issue

Insights in Nutrition and Agri-Food Science Technology by Use of Smart Algorithm, Machine Learning, Multivariable and Omics Data Analysis

Message from the Guest Editors

With continuous innovations and advancements in analytical instruments and computer technology, omics studies based on statistical analysis, such as phytochemical omics, oilomics/ lipidomics, proteomics, glycomics, flavoromics and metabolomics are increasingly popular in the areas of food chemistry and nutrition science. Smart algorithms and machine/deep learning, i.e., genetic algorithm (GA) optimization, random forest classification, logistic regression, and convolutional neural networks (CNN) are emerging data science approaches that have been widely developed to rapidly analyze multidimensional omics datasets from online sensors or offline analytical instruments. Although clearly designed roadmaps that permit the next generation development in the context of Agri-Food 4.0 are still being worked out, this challenging scenario in the Nutrition and Agri-Food Science Technology (NAFST) provides an opportunity for wide-ranging discussions.

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