

Special Issue

Traditional Chemometrics and Innovative Machine Learning Techniques as Tools to Assess Food Quality, Safety and Traceability

Message from the Guest Editors

The chemometric analysis in the field of food allows one to process a large number of data and responses, to extract information on the authentication of geographical or varietal origin, food quality, chemical composition, or even to trace the adulteration of commodities with high added value. In recent years, machine learning techniques have also found a wide range of uses in the food sector, offering valuable support to classical chemometric techniques for data analysis, but also for the assessment of food quality, traceability and safety. The application of AI has led to the development of techniques that are more reliable, objective, cost-effective, non-destructive and less time-consuming than traditional methods available in the industry. This Special Issue aims to collect high quality manuscripts related to the implementation of machine learning techniques, coupled with classical chemometric strategies in the food industry, to highlight the potential and applications of these efficient and non-invasive techniques. **Keywords:** chemometric analysis; machine learning techniques; artificial intelligence; food quality; safety; traceability

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