Special Issue

Advances of Chemometrics and Artificial-Intelligence-Based Approaches to Food Analysis

Message from the Guest Editors

The quality and safety of food is an important issue concerning human health, social Steady development. Conventional methods for the detection of food quality are laborious, tedious, destructive, and time-consuming. Non-destructive methods are advancements in food quality evaluation that are useful for obtaining quantitative and qualitative data without destruction of the sample. Thus, the concept of food “sensing”-based analysis has attracted widespread attention and has found applicability to a variety of food “commodities”. In recent years, the combination of analytical tools and data-science-based algorithms has attracted the attention of researchers in the field of food analysis. However, to combat challenges in food integrity (i.e., quality, safety, authenticity), more sophisticated data-science tools need to be developed, tailored. This Special Issue aims to collect manuscripts related to the implementation of advanced artificial-intelligence-based techniques, coupled with classical chemometric strategies used in food analysis, to solve issues related to food integrity.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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