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# Machine Learning and Chemometrics Applied to Food Control: New Trends and Challenges

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## Message from the Guest Editors

Food adulteration and authentication is becoming a major issue worldwide as a consequence of growing global trade. Food fraud is not only an illegal activity but can also cause health problems in consumers. Recently, analytical methods (NIRs, FT-IR, electronic noses, among others) based on the analyses of untargeted compounds or food fingerprinting are becoming very popular for food quality control, as they are usually faster, more ecofriendly and non-destructive. New advances in computer systems and data analysis have improved the possibilities of these methodologies, which usually generate large amounts of data. Therefore, the use of chemometric and machine learning algorithms are of great interest for the automation of and for developing predictive models in food quality control processes.

This Special Issue of *Foods* offers the opportunity to publish high-quality multidisciplinary research and reviews related to the most recent developments in food analytical methods and data analysis (chemometrics and machine learning) for food control, covering optimization and experimental design, data pre-processing strategies and classification and quantification models.



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### Message from the Editor-in-Chief

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