



foods



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Novel Applications of Machine Learning Combine with Chemometrics in Food Quality Assessment

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Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

Dear Colleagues,

The classification of food samples based on their chemical composition can provide useful information for various purposes, such as determining geographical origin and authenticity, product characteristics, quality control for companies, preservation, and product differentiation. Analysis of ingredients like vitamins, minerals, enzymes, food additives, flavors, and colors can reveal insights into food quality and health impacts on consumers. One classification problem is the authentication of organic foods.

Certification labels indicating country of origin or food type add market value to products, making the authentication process relevant for preventing potential fraud. Since differences between food types and origins are not usually visible, systematic verification of authenticity and traceability relies on chemical analysis. Certification requires several steps that considerably increase product value. Methodologies for authenticating food type or origin are of great interest.



mdpi.com/si/193190

Special Issue



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Message from the Editor-in-Chief

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