



foods



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

Guest Editors:

Dr. Rommel Melgaço Barbosa

Instituto de Informática, Alameda
Palmeiras, Quadra D, Campus
Samambaia, Universidade
Federal de Goiás, Goiânia 74690-
900, GO, Brazil

Prof. Dr. Oscar Núñez

1. Department of Chemical
Engineering and Analytical
Chemistry, Faculty of Chemistry,
University of Barcelona, Martí i
Franquès 1-11, E-08028
Barcelona, Spain
2. Research Institute in Food
Nutrition and Food Safety,
Universitat de Barcelona, Av. Prat
de la Riba 171, Edifici Recerca
(Gaudi), E-08921 Santa Coloma
de Gramenet, Spain

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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.



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Special Issue



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Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science,
Purdue University, West
Lafayette, IN, USA

2. Department of Comparative
Pathobiology (Courtesy), Purdue
University, West Lafayette, IN,
USA

Message from the Editor-in-Chief

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Contact Us

Foods Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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