

Special Issue

Advances in Process Detection and Control Technologies for Optimizing Food Processing

Message from the Guest Editors

The food industry faces key challenges in safety, quality, efficiency, and sustainability. This Special Issue highlights cutting-edge sensing and smart control technologies to optimize production—from raw materials to finished products.

This Special Issue welcomes original research contributions, in-depth review articles, and relevant case studies addressing, but not limited to, the following thematic areas:

Advanced and Emerging Detection Technologies:
Spectroscopic sensors for noninvasive characterization.
Advanced computer vision and image analysis.

Electronic olfactory and gustatory systems for instrumental sensory analysis.

The design and application of nanosensors and nanomaterials in the evaluation of food safety and quality.

Strategic Applications in Food Processing:

The comprehensive monitoring and control of quality and safety from raw materials to consumers.

The advanced optimization and control of thermal processes and non-thermal processes.

The control and monitoring of fermentation processes, bioprocesses, and the production of functional ingredients.

Guest Editors

Prof. Dr. Emmanuel De Jesús Ramírez-Rivera

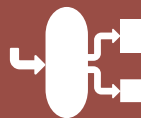
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Deadline for manuscript submissions

30 December 2025



Processes

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Editor-in-Chief

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