Special Issue

Vision-Based Sensors and Algorithms for Food Processing

Message from the Guest Editor

The production of food at an industrial level presents various challenges, which differ to those experienced when producing commodity chemicals. A product that is destined to be consumed by humans must meet strict regulatory constraint. Consequently, one must employ more sophisticated measurement technologies, and one of such technologies is to explore new sensor methodologies, such as in situ vision sensors. This Special Issue will cover the applications of and theoretical advances in vision and image processing technology for the monitoring and subsequent control of food processing activities. This includes, for example, assessing the moisture state in real-time fruit in a dryer, or perhaps the surface morphology, and, therefore, taste attributes, of baked products. Finally, this Special Issue will also cover new algorithmic developments in image processing using machine learning strategies, deep learning algorithms for classification, and modern regression techniques.

Guest Editor

Dr. David I. Wilson

Industrial Information & Control Center, Department of Electrical and Electronic Engineering, Auckland University of Technology, Auckland, New Zealand

Deadline for manuscript submissions

closed (30 November 2022)

Foods

an Open Access Journal by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed

mdpi.com/si/122351

Foods
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
foods@mdpi.com

mdpi.com/journal/foods

Foods

an Open Access Journal by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed

mdpi.com/journal/foods

About the Journal

Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

Editor-in-Chief

Prof. Dr. Arun K. Bhunia
1. Department of Food Science, Purdue University, West Lafayette, IN 47907, USA
2. Department of Comparative Pathobiology, Purdue University, West Lafayette, IN 47907, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, AGRIS, PubAg, and other databases.

Journal Rank:

JCR - Q1 (Food Science and Technology) / CiteScore - Q1 (Health Professions (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

MDPI