

Special Issue

Emerging Technologies for Precision Agriculture

Message from the Guest Editor

Currently, the pace of increase in environmental pollution caused by food production is more rapid than the formulation of answers by science. The two fundamental tasks are as follows: 1. to meet sustainability criteria within the production units and 2. to continuously expand the technical information systems (IoT, WSN, drone monitoring) to enhance the synergy of natural and agricultural areas. The two major areas of sensor development that are outstanding are as follows: 1. Lab2Field, where in the laboratory, in addition to fixed environmental characteristics, precisely functioning instruments are adapted to field conditions. 2. Chipless, i.e., wireless sensors that degrade in the soil or in human and animal bodies. The latter are significant for frozen foods. Nanotechnology opens new windows in the development of agricultural sensors. On the other hand, there is a growing demand for reducing soil compaction. Seeder robots operating in rows, small smart data-gathering robots that can also perform actuator tasks, such as sampling and causing minor soil compaction, contribute to the per plant, ultra-precise platform.

Guest Editor

Prof. Dr. Miklós Neményi

Department of Biosystems Engineering and Precision Technology,
Albert Kázmér Mosonmagyaróvár Faculty of Agricultural and Food
Sciences, Széchenyi István University, H-9200 Mosonmagyaróvár,
Hungary

Deadline for manuscript submissions

20 October 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/213260

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

mdpi.com/journal/

[applsci](https://doi.org/10.3390/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)