



## Smart Machinery and Control System for Precision Agriculture

Guest Editor:

**Prof. Dr. Reza Fotouhi**

Mechanical Engineering,  
University of Saskatchewan,  
Saskatoon, SK S7N 5A9, Canada

Deadline for manuscript  
submissions:

**closed (30 April 2023)**

### Message from the Guest Editor

Dear Colleagues,

Precision agriculture is a strategy that gathers and analyzes data and combines it with other information to support decisions for improved resource-use efficiency in agricultural production. The aim of this Special Issue is to reflect on the latest applications in sensor technologies, covering a diverse range of sensing mechanisms and applications. New and emerging applications for mechanisms and robot analyses are encouraged. Particularly, the application of mobile robots and manipulators in farming and crop production are welcomed.

Both reviews and original research articles are welcomed. Reviews should provide an up-to-date and critical overview of state-of-the-art technologies in the research fields applied to precision agriculture.

Topics for this Special Issue include, but are not limited to:

- Engineering technology, focusing on sensor systems, computational techniques, positioning systems, and control systems for agriculture applications;
- Adoption and economics of precision agriculture management;
- Physical, mechanical, and electromagnetic sensor applications;
- Multiplexing and sensor networking applications.





*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

## Author Benefits

**Open Access** : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility**: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank**: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)