



sensors



an Open Access Journal by MDPI

Advances in Agriculture Sensor Technologies and Their Applications in Precision Agriculture and Smart Farming

Guest Editors:

Dr. Paul Kwan

School of Engineering and Technology, CQUniversity
Brisbane, 160 Ann St., Brisbane
City, QLD 4000, Australia

Prof. Dr. Benoît Mercatoris

TERRA Teaching and Research
Centre, Gembloux Agro-Bio Tech,
Liège University, Passage des
Déportés, 2, 5030 Gembloux,
Belgium

Dr. Leifeng Guo

Agricultural Information Institute
of Chinese Academy of
Agricultural Sciences, No. 12
Zhongguancun South St.,
Haidian District, Beijing 100086,
China

Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editors

Sensors that are applied in applications in precision agriculture and smart farming are called agriculture sensors. There has been exponential uptake in Agriculture sensors in various environments in recent times, including weather stations, unmanned aerial vehicles, land robots, soil moisture probes etc which can be controlled by mobile apps through both long or short range wireless internet connectivity. Agriculture sensors that have been used in precision agriculture and smart farming include location sensors, optical sensors, multispectral sensors, thermal infrared sensors, laser sensors, electro-chemical sensors, mechanical sensors, dielectric soil moisture sensors, air flow sensors, just to name several. This Special Issue will showcase the latest advancements in agriculture sensor technologies and their utilisation in innovative digital agriculture applications across multiple data sources and resolutions.

- Precision Agriculture
- Smart Farming
- Agriculture sensors
- Remote Sensing
- Multisensor Platforms
- Livestock monitoring
- Site-specific farming
- Smart greenhouse
- Climate monitoring
- Irrigation monitoring
- Field Robots
- Soil Health



mdpi.com/si/130956

Special Issue



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 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)