

Special Issue

Smart Sensing Systems for Arable Crop and Grassland Management

Message from the Guest Editors

In recent decades, multiple sensor-based systems for agriculture have appeared. Using these sensors combined with different methodologies based on artificial intelligence, such as machine learning, has provided multiple solutions. Most of these solutions have been designed to be applied in greenhouses and permanent crops, while systems for arable crops and grasslands have been less proposed. In this Special Issue, we aim to collect novel developments of smart sensing systems to support the management of arable crops and grasslands, including urban and periurban grasslands. These systems can be based on multiple types of sensors: optical sensors, acoustic sensors, electromagnetic sensors, or other physical/chemical sensors. The systems can monitor the parameters of soil, water, plants, or climate and combine them. The gathered information should be used as input for algorithms that provide smart, data-based agricultural management recommendations linked to irrigation, fertilization, and pest management.

- smart agriculture
- smart farming
- arable crop management
- meadow management
- urban grassland management
- IoT in agriculture
- WSN in agriculture
- proximal sensing

Guest Editors

Dr. Ruben Linares

Departamento de Producción Agraria, Escuela Técnica Superior de Ingeniería Agronómica, Alimentaria y de Biosistemas, Universidad Politécnica de Madrid, Madrid, Spain

Dr. Lorena Parra

Departamento de Producción Agraria, Escuela Técnica Superior de Ingeniería Agronómica, Alimentaria y de Biosistemas, Universidad Politécnica de Madrid, Avenida Puerta de Hierro, 4, 28040 Madrid, Spain

Deadline for manuscript submissions



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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