

Call for Contributions

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICNS+2021+Special>

Please select Track Preference as **SeSAM**

3. Note: *For 2021, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Workshop

SeSAM: Sensing Systems for Agricultural Management

Workshop Chair

Dr. Lorena Parra, Universitat Politecnica de Valencia, Spain

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along with

ICNS 2021, The Seventeenth International Conference on Networking and Services

<https://www.iaria.org/conferences2021/ICNS21.html>

May 30/June 3, 2021 Valencia, Spain

Sensing Systems are highly demanded in several sectors for monitoring the performance and optimise the management. Focusing on Agriculture, different challenges appear related to the required robustness, limited energy, and the capacity or monitoring a complex environment. The need for cost-effective, adapted, and specific systems for agriculture management is urgent to minimise and mitigate the effects of climatic change in our food chain.

Sensing systems for agricultural management includes sensing elements measuring the plant, water, soil, and fruit characteristics; smart elements that receive the generated data and decide the best management option; and communication elements that connect the sensing with the smart elements. Moreover, operational algorithms that adapt those systems to the changing environment and the existing limitations while ensuring its operation have to be perceptively incorporated. The inclusion of farmers in those systems is critical.

This workshop focuses on the integration of sensing systems for agricultural management, including all the possible elements included in those systems. Systems can be based on wireless sensor networks, on the Internet of Things, and based on the use of smart devices or smart vehicles that can stand-alone and optimise the management of agricultural practices. Minimising the waste of resources, maximising the production, defining the best harvest moment, monitoring the stress or the crop, or identifying pests and weed plants are only some examples of agricultural management.

Topics include, but not limited to:

- Digital farming
- Systems based on the Internet of Things (IoT) for agricultural management
- Smart applications for crops and fruits monitoring and agricultural management
- Integration of unmanned aerial vehicles in systems for agricultural management
- Design, calibration, and adaptation of sensing elements for agricultural management
- Wireless sensor network deployment for agricultural management
- Combination of remote sensing with wireless sensor networks for enhanced precision agriculture
- Data fusion for agricultural management
- Artificial Intelligence for decision making in agricultural management
- Challenges related to real long-term deployments of sensing systems in agricultural management

Technical Program Committee

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Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaaria.org]
- Presentations: slide only [slide-deck posted on www.iaaria.org]
- Demos: two pages [posted on www.iaaria.org]

Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: April 16, 2021

Notification: May 3, 2021

Registration: May 13, 2021

Camera ready: May 13, 2021

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format

- See: <http://www.iaaria.org/format.html>

- Before submission, please check and comply with the editorial rules: <http://www.iaaria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaariajournals.org>

- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>

- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.

- Registration fees are available at <http://www.iaaria.org/registration.html>

Contact

Chair

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