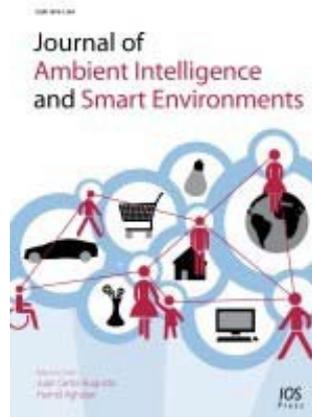


CALL FOR PAPERS

Smart Environments and Ambient Intelligence in Agricultural Technology



Journal of Ambient Intelligence and Smart Environments
(IF 2019: 1.186)

Rationale

For the last decade, a rising interest in applying Information Technology to the research fields of agriculture and environmental sciences has produced a remarkable number of studies. This research trend aims to automatize and gain more control on the agricultural process and at the same time making this process more sustainable. Applying sensor technology and combining artificial intelligence techniques creates the opportunity to obtain more precise information on agriculture processes and environmental phenomena. Thus, the adoption of solutions from the areas of Smart Environments and Ambient Intelligence (SmE/AmI) is expected to foster the development of intelligent applications that could improve the current systems and processes involved in agriculture technology.

From our experience, we believe there is still a need for bridging the gap among the needs of farmers, environmental managers and stakeholders in the agriculture and environmental sectors and the solutions offered by the Information and Communication Technology field. The eventual goal of applying ideas, processes and solutions from SmE/AmI to agriculture is to replace, or significantly reduce, the human labor for the agricultural production. The motivation of this Special Issue is to foster collaboration among researchers from computer science, agriculture engineering and environmental science fields who are in a privileged position to provide new and valuable insights on intelligent applications for agriculture and environmental management systems.

We solicit original contributions of **research** or **survey** papers addressing the following non-comprehensive list of topics:

- Agriculture Information Technologies
- Smart farming
- Precision agriculture
- Environmental degradation assessment and rehabilitation
- Environmental monitoring
- Linking environmental characterisation and broad management
- Intelligent forecasting applications
- Intelligent applications for ecological disaster management
- Intelligent waste management
- IoT for the monitorization of agricultural systems
- Crowdsensing for environmental applications
- Multi sensor and data fusion for agriculture/environmental applications
- Intelligent resource allocation and decision making tools
- Intelligent applications for ensuring food security
- Intelligent tools and methods for farming system design
- Big Data for agriculture and environmental problems
- Industrial monitoring systems: water/energy/materials use efficiency, waste management, remote monitoring

Notes for Authors

Contributions must be at least 12 pages in length. Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Conference papers may be submitted if the paper has been re-written and expanded to at least 30% (proofs to be included in the cover letter), and, if appropriate, written permissions have been obtained from any copyright holders of the original paper.

For preparation of your manuscript you may follow the instructions in <https://www.iospress.nl/journal/journal-of-ambient-intelligence-and-smart-environments/>, section “Manuscript Submission & Author Instructions”.

Important Dates

- Submission deadline: April 15th, 2020
- Notification 1st review round: June 15th, 2020
- Resubmission: September 1st, 2020
- Final Decision: September 15th, 2020
- Scheduled publication: November, 2020

All deadlines are at 11:59pm PST

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