

Call for Book Chapters

Book title: Agriculture and Environment Perspectives in Intelligent Systems

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Forthcoming to be published in the IOS Press book series *Ambient Intelligence and Smart Environments* (<https://www.iospress.nl/bookserie/ambient-intelligence-and-smart-environments/>)

Motivation. Two of the most important worldwide challenges we need to face are to increase food production and protect the environment against factors such as climate change and environmental degradation. This requires the development of optimum environmental management strategies supported by the access to better information on environmental media condition (e.g., soils, waters, sediments, wastes). In order to fulfill this requirement, there is a need to increase the spatial density of environmental media data to ensure their right characterisation in a timely manner. This demand is enhanced by the fact that environmental media are highly heterogeneous and diverse temporally. Due to the high cost and time of traditional laboratory analysis, environmental sampling is often restricted. This increases the possibility of having undetected contamination and poor environmental media characterisation leading to environmental degradation and reducing the profitability or economic activities (e.g., agriculture). Intelligent systems represent alternative analysis tools by providing cost effective, rapid and real time measurement of environmental media, resulting in a new era for their characterisation and assessment. The development of this field offers an exciting opportunity for science advance and commercial application to capture the benefits of new technologies to assist the management of global environmental and economical problems. This development has applications in a wide range of areas (e.g., mining, contamination, agriculture, industrial processes) and requires the input of a number of disciplines (e.g., mathematics/statistics, telecommunications/informatics, environmental sciences). In this context, the use of intelligent systems will be paramount to understand, optimize and automate agricultural and environmental processes.

Topics. Areas of interest include, but are not limited to, the following: Agriculture Information Technologies; Smart farming; Precision agricultura; 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; Sensor development; Multi sensor and data fusion; Big Data applied to agriculture and enviromental problems

Information for authors. Authors may submit novel contributions of a minimum of 20 pages. All papers will be reviewed against the standard criteria of relevance, originality, significance, clarity and soundness, and are expected to meet high quality standards. Contributions may not be submitted to other conferences or journals during the reviewing period nor they may be already under review or published in other conferences or journals.

Submissions. All submissions should be made electronically through EasyChair:

<https://easychair.org/conferences/?conf=aepis18>

Submitted PDF papers should follow the IOS Press author instructions for formatting:

<http://www.iospress.nl/service/authors/latex-and-word-tools-for-book-authors/>

Important Dates. Chapter Submission: 15th of September 2018; **Notification of Acceptance:** 15th of October 2018; **Final Version due:** 1st of November 2018; **Book submission to IOS Press:** 1st of December 2018; **Foreseen Publication Date:** January 2019

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