# Information Processing in Agriculture

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*Information Processing in Agriculture* (IPA) was established in 2013 to encourage the development of science and technology related to information processing in agriculture, through the following aims:

* Promote the use of knowledge and methods from information processing technologies in agriculture;
* Report on experiences and publications of institutes, universities, and government, as well as profitable technologies for agriculture;
* Provide a platform and opportunities for exchanging knowledge, strategies, and experiences among information processing researchers worldwide;
* Promote and encourage interactions among agriculture scientists, meteorologists, biologists (pathologists/entomologists), information technology professionals, and other stakeholders to develop and implement methods, techniques, and tools related to information processing technology in agriculture;
* Create and promote expert groups for the development of agro-meteorological databases, crop and livestock modeling, and applications for the development of crop performance-based decision support systems.

Topics of interest include, but are not limited to, the following aspects:

* Smart sensors, biosensors and bioelectronics, material and molecular innovations for chemical and biological sensing, sensors, and automation and control systems for agriculture;
* Wireless sensor networks, 4G, NB-IOT, and 5G applications in agriculture;
* Remote sensing and discrete element modeling (DEM) applications in agriculture;
* Simulation, optimization, modeling, and automated control;
* Decision support systems, intelligent systems, and artificial intelligence;
* Machine vision, computer vision, image processing and automation, and imaging technologies for high-throughput phenotyping
* Advances in spectroscopy and hyperspectral properties of biological products;
* Advanced computational approaches for solving agricultural and biological engineering problems;
* Computational fluid dynamics (CFD) applications in agriculture;
* Inspection and traceability for food quality;
* Precision agriculture, intelligent instruments, robotics, and co-robotics for agriculture;
* Internet of things, cloud computing, and precision farming;
* Big data, data mining, and data analysis for agricultural applications;
* Unmanned aerial vehicles (UAVs) for sensing, imaging, and agricultural aquacultural applications.

**Topics :**   
Agriculture: multidiscip.  
Livestock prod., supply chains: multidiscip.  
Sciences and techniques: multidisciplinary  
Geomatics, remote sensing  
Modelling  
Mathematics, computer science  
  
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