

IPMU'2014

15th International Conference on Information Processing and Management of Uncertainty in Knowledge-based Systems

MONTPELLIER FRANCE, JULY 15-19 2014

<http://www.ipmu2014.univ-montp2.fr>

Preliminary Call for Papers

Special Session Proposal on “Decision Support and uncertainty management in Agri-Environment”



Description of the special session

In agronomy, environment, and agro-resource transformation, the need for data organization, knowledge capitalization, process modeling and ultimately decision support has recently increased and is now very high.

Computer-based modeling has opened new perspectives to fulfill these demands, many of which are directed to decision support methods and tools.

The Agri-Environmental applications present specific characteristics. An agri-transformation chain, for instance wine or wheat flour production, is a complex system, with main and co-products. Knowledge can be of various kinds: partial mathematical models or expert know-how. Data, often rare and costly, may not be available at all scales. They can be georeferenced, static or dynamic.

Preferences expressed by the stakeholders of the chain may be vague, uncertain and/or conflicting.

These characteristics produce numerous sources of uncertainty, which constitute a challenge for modeling: imperfect data, partial expertise, consumer preferences...

The aim of this special session is to discuss and disseminate the recent advancements for processing and managing uncertainties in decision support applied to Agri-Environment. We hope this can provide a basis for researchers in Soft Computing and Agri-Environment to focus and extend their cooperation.

Deadlines

- Tentative title and list of authors: September 30, 2013
- Paper submission: December 9, 2013
- Acceptance/rejection notification: February 24, 2014
- Camera-ready papers: March 31, 2014
- Conference dates: July 15-19, 2014

Scope of the special session

The topics of interest of this special session include (but are not limited to) uncertainty management in:

- Ontologies and semantic web tools
- Imperfect data pre-processing and querying
- Cooperation of expert knowledge and data mining
- Reasoning and inference under uncertainty
- Simulation and modeling
- Optimization
- User preferences
- Interface to simulation and viewing results

Notes

The session will be actually organized only if we receive enough expressions of interest. If you are interested in submitting a paper on these topics, please contact by e-mail a member of the initiative committee.

Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the rest of contributed papers. As a result, all accepted papers will be included in the proceedings of IPMU 2014.

Program Committee

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