

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

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



Preliminary Call for Papers

Special Session Proposal on “Soft Computing and Sensory Analysis”

Description of the session topic

The aim of this special session is to discuss and disseminate the most recent advancements focused on Sensory Analysis supported by advanced knowledge-based systems endowed with the capability to handle the inherent uncertainty and imprecision of such analysis.

Soft Computing techniques (Fuzzy Logic, Neuro-computing, Probabilistic Reasoning, Evolutionary Computation, etc.) are well-known because of their ability to work in a cooperative way, taking profit from the main advantages of each other. They yield knowledge-based systems able to solve lots of complex real-world problems for which classical techniques cannot give accurate results.

Interpretability, due to its human-centric character, plays a key role in system modeling; it becomes essential in applications with high human interaction like Sensory Analysis. Cooperation between expert knowledge and data mining can help building better validated and interpretable models.

Deadlines

- Tentative title and list of authors: **October 4th, 2013**
- Paper submission: **December 9th, 2013**
- Acceptance/rejection notification: **February 24th, 2014**
- Camera-ready papers: **March 31st, 2014**
- Conference dates: **July 15-19, 2014**

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Scope of the session

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

- Quality assessment of food and non-food products
- Sensory evaluation practices (descriptive analysis, affective testing, etc.)
- Analysis of expert panel or consumer data
- Qualitative and quantitative evaluation of subjective measurements
- Expert knowledge elicitation
- Cooperation between expert knowledge and data mining
- Management of uncertainty in sensometry
- Computing with sensory perceptions
- Modeling global quality of products
- Decision making based on qualitative sensory analysis
- Marketing supported by sensory analysis
- Human-centric design of products guided by sensory analysis

Notes

If you are interested in submitting a paper on these and related topics, please do not hesitate to contact by e-mail one of the organizers of this special session.

Please, notice that the session will be actually organized only if we receive a congruent number of expressions of interests. Of course, 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 the IPMU 2014.

Organizers

Cécile Coulon-Leroy (c.coulon@groupe-esa.com)
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