

Call for Papers

Journal of Universal Computer Science

Special Issue on

Applied models and knowledge representation in computational science



SCOPE

The development of ontologies, metadata schemas and other kinds of models that are shared, reused and enriched for computational science tasks is continuously growing. Computational science techniques require, in many cases, models and representations of knowledge for the complex processes supporting research in the different fields, and complex models are also required to capture the research context itself.

Relevant examples are scientific ontologies as the Gene Ontology or the Plant Ontology and metadata schemas as the Ecological Metadata Language (EML), but many other models that are less used are regularly used in computational science research. These artifacts call for specific methods, techniques and scientific infrastructure support that deserve separate attention.

The present issue aims at gathering high quality research results about the use of knowledge representations, schemas and models in computational science for concrete applications, the design of e-science infrastructure support or papers dealing with the analysis, development or evaluation of the representations themselves.

Suggested topics include, but are not limited to:

- ***Knowledge Representation & Reasoning Techniques***
- ***Knowledge Acquisition Techniques***
- ***Knowledge Engineering Technologies & Applications***
- ***Autonomic Knowledge Processing & Applications***
- ***Intelligent Data Mining & Applications***
- ***Semantic Networks & Applications***

Important Dates

- KREAM 2012 workshop: **June 4-6 2012**
- Submissions due (including extended versions of KREAM papers): **30 July 2012**
- Notification of acceptance/rejection: **15 September 2012**
- Final versions due: **15 November 2012**

Guest Editors

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SUBMISSION GUIDELINES

Authors are invited to submit original unpublished research as papers. All submitted papers will be subject to rigorous peer-review by at least 3 reviewers for originality, significance, clarity and quality.

A selection of papers presented at the KREAM'12 workshop will be invited to prepare extended versions for the special issue. The extended version of papers must contain at least 30-50% new material and the title of the extended version must clearly and unmistakably differ from the title of the article presented at the conference.

All manuscripts must be formatted according to the guidelines of the Journal of Universal Computer Science (JUCS), available at <http://www.jucs.org/ujs/jucs/info/submissions>, and submitted by email to msicilia@uah.es.
