

FIRST CALL FOR PAPERS

SPECIAL SESSION ON:

"MANAGEMENT OF UNCERTAIN INFORMATION IN THE DIGITAL EARTH"

**IPMU 2010:
13th International Conference on Information Processing and Management of Uncertainty in
Knowledge-Based Systems,**

Dortmund, Germany, June 28 - July 2, 2010
(<http://www.ipmu2010.org>)

IMPORTANT DATES

January 17, 2010: Full Paper Submission
March 07, 2010: Notification of paper acceptance/rejection
April 04, 2010: Camera-ready copies of accepted papers
June 28 July 02, 2010: Conference

The **IPMU Conference** is organized every two years with the focus of bringing together scientists working on methods for the management of uncertainty and aggregation of information in intelligent systems.

Within the 2010 edition of IPMU the special session "**Management of uncertain information in the Digital Earth**" is organized with the intent of collecting contributions on both theoretical and applied researches having as focus the management of geographic information.

SCOPE

Digital Earth is a virtual representation of the planet encompassing all its systems and forms, including human societies, conceived to facilitate and promote the use of georeferenced multi-dimensional, multi-scale, multi-temporal information from multiple sources over the Internet.

The development of such a representation requires the management of uncertain information at different levels, such as in spatio-temporal data acquisition and representation, scale transformation, vector to raster conversion and vice versa, heterogeneous multisource spatial data fusion, online geodata discovery, selection and retrieval, etc.

The relevance of the "digital earth" issue is related not just to sustainable development of the society but also to the challenges and opportunities that it offers to basic and applied research in the ICT field.

TOPICS

The topics of interest include:

- Representation of imprecise and uncertain spatio-temporal data and sensor observations
- Management of spatial data with uncertainty
- Spatial and sensor data fusion under uncertainty
- Qualitative spatio and temporal reasoning
- Classification of spatial data
- Flexible spatial and temporal querying
- Location-based querying and services

- Quality management of information in Web2 spatial applications
 - Flexible techniques for geodata discovery and mining
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ORGANIZERS

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GUIDELINES FOR SUBMISSION

We encourage submissions of papers that have not been published or submitted to any other conference, about the above-mentioned or other related areas regarding innovative methods and applications.

The same deadline as for the regular papers, i.e. 17 January 2010, applies. However, the contributors are requested to send an email message to the contact persons listed below, notifying their submission of a paper for the session and giving its title plus a list of the authors.

Papers submitted to this special session will go through the normal reviewing process. The accepted papers will be included in the conference proceedings to be published by Springer-Verlag (LNAI/CCIS series).

Submissions must follow the style files of the Lecture Notes of Springer Verlag, and can have a maximum length of 10 pages according to this format.

Authors' instructions and style files can be download at:
<http://www.mathematik.uni-marburg.de/~ipmu2010/submissions.html>

Papers should be submitted using the provided automated submission system via the submission website.

For more information please visit the IPMU 2010 Website at a later time.

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