

Call for Papers: Spatial Metadata, Knowledge and Semantic Interoperability

Organizers: Dr. Rob Raskin (Jet Propulsion Laboratory, NASA)

Ms. Wenwen Li (George Mason University)

The heterogeneity of geospatial information, systems, and applications requires special technologies to integrate, interpret and deliver geospatial data and knowledge. The capture, representation, and manipulation of knowledge is a great challenge from both theoretical and practical perspectives. Use of validated knowledge for information and process management and decision support is the focus of this 2010 AAG Annual Meeting session.

Authors are invited to submit abstracts that address topics including, but not limited to:

- Spatial knowledge modeling and virtualization (thesauri, vocabularies and ontologies)
- Collaborative spatial knowledge ontology development (methodologies, tools and practices)
- Semantic interoperability (e.g. standards, protocols) across domains, languages and time
- Metadata and standards for spatial knowledge representation and processing (e.g. XML, RDF, RDFS, OWL, DCAM)
- Spatial knowledge infrastructures (semantic extensions to spatial data infrastructures)
- Knowledge-based reasoning for spatial or temporal properties of spatial concepts (probabilistic methods such as Bayes trust network and logic-based methods, such as forward chaining and backward chaining)
- Artificial Intelligence (e.g. fuzzy logic and artificial neural networks) in support of spatial decision making

To present an abstract for inclusion in this session:

1. Register and submit your abstract online (<http://www.aag.org/annualmeetings>).
2. Email your presenter identification number (PIN), paper title, and abstract to Dr. Rob Raskin (robert.g.raskin@jpl.nasa.gov) and Ms. Wenwen Li (wli6@gmu.edu) by Oct. 27, 2009.

Please feel free to contact the organizers about any concern or questions. Co-sponsored by the AAG Cyberinfrastructure Specialty Group and the Geographic Information Systems and Science Specialty Group.