

*Call for Paper*

**Special Session on Semantic Representation, Analysis, and Transmission for Large-Scale Multimedia Database, and Software Engineering Supporting Tools**

held at [IEEE 8th International Conference on Intelligent System Design and Applications](#)

November 26-28, 2008

Kaohsiung City, Taiwan

Conference and Special Session website: <http://bit.kuas.edu.tw/~isda08/>

The main theme and goals of the special session:

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Due to the intensive nature of multimedia data and inherent complexity among the heterogeneous media data across diverse application domains, building large-scale multimedia database software systems has never been an easy task, and has increasingly attracted the attention of many research and development efforts in industry and academia.

In the last decade, substantial progress has been made in content-based analysis to facilitate the development of large-scale multimedia databases. Together with the recent progress on semantic web and web-based software engineering architecture, including web services (WS) and service-oriented architecture (SOA), those progresses make it possible to build a new generation of multimedia applications that enables large-scale semantic representation, analysis, and transmission of multimedia data from heterogeneous data sources. However, there is still a long way to go for mature solutions of multimedia database systems that are capable of processing semantics-rich, large-volume multimedia data. It could be even more challenging if such systems are under stringent functional and non-functional (e.g., QoS) requirements.

The goal of this workshop is to bring the SW/WS/SOA community and multimedia computing community together and to provide a forum for multidisciplinary research opportunities, with a focus on how to apply the Semantic Web, SOA, and web service technologies to the acquisition, generation, transmission, storage, and processing of multimedia information. Discussions on future challenges in multimedia information manipulation, as well as practical software engineering solutions for the design and implementation of multimedia database software systems are also included.

Topics to be included:

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Topics of interest include but are not limited to practical areas that span both Semantic Web/SOA/Web Services and Multimedia computing including

- Automatic Generation of Multimedia Presentations
- Semantic Multimedia Metadata Extraction
- Multimedia Ontology
- Multimedia Standards (e.g. MPEG-7 and XMP) and Semantic Web

- Multimedia Reasoning
- Annotation tools and methods for Multimedia
- Content based multimedia analysis
- Multimedia Indexing, Searching, and Retrieving
- Service Usage for Multimedia software systems
- Service Design for Multimedia software systems
- Service Infrastructure for Multimedia software systems
- Service technology and tool supports for multimedia database acquisition

Paper Submissions:

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Papers are invited from prospective authors with interests in this particular special session and related areas of application. All contributions should be original and not published elsewhere or intended to be published. All papers should be submitted electronically in 4 to 6-page PDF format to the special session organizers (shliu (at) csufresno (dot) edu). Authors must follow the double columns IEEE format. All accepted papers will be indexed by EI. Details of the required paper format are published at the official ISDA08 website (<http://bit.kuas.edu.tw/~isda08/>)

Important Dates:

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Full Paper Due Date: May 21, 2008

Notification: June 15, 2008

Camera-ready Paper Deadline: July 15, 2008

For further information, please contact:

Special session organizers:

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