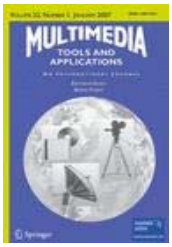

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Multimedia Tools and Applications (Springer)
Special Issue on Data Semantics for Multimedia Systems

In the last decade, substantial progress has been made in content-based analysis and multimedia streaming to facilitate the development of large-scale multimedia information systems. Together with the recent progress on semantic web, it is now possible to build a new generation of multimedia applications that enable large-scale semantic representation, analysis, and delivery 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 special issue is to bring the semantic web community and multimedia processing & computing community together and provide a forum for multidisciplinary research opportunities, with a focus on how to apply the semantic technologies to the acquisition, generation, transmission, storage, processing, and retrieval of multimedia information. Discussions on future challenges in multimedia information manipulation, as well as practical solutions for the design and implementation of multimedia database software systems are also encouraged.

Topics of interest include but are not limited to practical areas that span both semantic technologies and multimedia processing & computing:

- Automatic generation of multimedia presentations
- Semantic multimedia metadata extraction
- Annotation tools and methods for multimedia semantics
- Media ontology generation/learning/reasoning
- Content-based multimedia analysis
- Multimedia indexing, searching, and retrieving
- Multimedia streaming
- Semantic-based QoS control and scheduling
- Semantic-based Internet data streaming and delivery
- Multimedia standards (e.g., MPEG-7 and XMP) and Semantic Web
- Semantics enabled multimedia applications (including annotation, browsing, storage, retrieval, and visualization)
- Semantics enabled networking and middleware for multimedia applications

Submission Details

Papers must be original and not submitted to or accepted by any other conference or journal. Prospective contributors are invited to submit papers in A4/US letter, single column, double space format, up to 30 pages long including figures, tables and references. Manuscript submission is handled by the MTAP Online Manuscript Submission website at: http://www.editorialmanager.com/mtap/. During submission, you should select your article type as "SI:Data Semantics for Multimedia Systems". Detailed information about the Journal, including an author guide and detailed formatting information is available at: http://www.springer.com/computer/information+systems/journal/11042.

Important Dates

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Guest Editors

Dr. Mei-Ling Shyu
Department of Electrical and Computer Engineering
University of Miami
Coral Gables, FL 33146, USA
shyu@miami.edu

Dr. Jie Bao
Department of Computer Science
Rensselaer Polytechnic Institute
Troy, NY 12180, USA
baojie@cs.rpi.edu

Dr. Yu Cao
Department of Computer Science
California State University, Fresno
Fresno, CA 93740, USA
yucao@csufresno.edu

Dr. Jun Kong
Department of Computer Science
The North Dakota State University
Fargo, ND 58105, USA
jun.kong@ndsu.edu

Dr. Ming Li
Department of Computer Science
California State University, Fresno
Fresno, CA 93740, USA
mingli@csufresno.edu

Dr. Mathias Lux
Institute for Information Technology (ITEC)
Klagenfurt University
Klagenfurt, 9020, Austria
mlux@itec.uni-klu.ac.at

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