

Special Issue of Multimedia Tools and Applications

“Multimedia and Semantic Technologies for Future Computing Environments”

Introduction

With the popularity of multimedia data on the internet, efficiently accessing and managing the explosively growing multimedia content from large-scale multimedia database has become essential. During the last decades, extensive research efforts have been dedicated to automatic multimedia analysis and processing, such as acquisition, generation, storage, and retrieval of large-scale multimedia information. However, despite these techniques already provide promising results, there are still several key difficulties such as semantic gap and user gap in multimedia analysis/processing and annotation/tagging, respectively. The aim of this special issue is to provide an overview of emerging research challenges in Semantic Multimedia and to help reducing the Semantic and User Gap between low-level content descriptions of multimedia and the semantics in high-level human interpretations of audiovisual media. Semantic Web and multimedia community researchers are encouraged to join the workshop to benefit from the presentation of results from multimedia based research, which demonstrate important multimedia applications which could be enhanced by Semantic Web technologies.

This special issue invites high quality contributions addressing related theoretical and practical aspects of semantic multimedia. Authors of selected outstanding papers from the 5th International Conference on Future Information Technology (FutureTech-10: Track 6. Multimedia Convergence) and the 2010 International Workshop on Multimedia and Semantic Technologies (MUST 2010), May, 2010, Korea will be invited to submit extended versions of their papers for this special issue.

Topics

Topics of interest include, but are not limited to:

- Advanced Semantic and Content-based Multimedia Analysis in FCE (Future Computing Environments)
- Advanced Semantic Descriptors and Similarity Metrics for Multimedia in Future Computing Environments
- Machine Learning and Relevance Feedback in Multimedia Analysis and Retrieval for FCE
- Ontology Engineering and Ontology-based Multimedia Mining and Retrieval for FCE
- Semantic Web technologies and Multimedia for FCE
- Semantic-driven Multimedia Indexing and Retrieval in FCE
- Semantic-driven Multimedia Personalization and Adaptation for FCE
- Interfaces for Web-scale Multimedia Repositories in FCE
- Affective/Emotional Interaction or Interfaces for Multimedia Applications in FCE
- Applications of Semantic Multimedia in Social and Web-based Environments
- Collective and Swarm Intelligence for Multimedia Applications in FCE
- Multimedia and Digital Convergence in FCE
- Intelligent Multimedia Services for FCE
- Multimedia Security in FCE

Submission Details

All the papers should be full journal length versions and follow the guidelines set out by Multimedia Tools and Applications (<http://www.springer.com/computer/information+systems/journal/11042>). Manuscripts should be submitted online at <http://mtap.editorialmanager.com> choosing “Multimedia & Semantic Technologies” as article type, no later than June 15, 2010. Information about the manuscript (title, full list of authors, corresponding author’s contact, abstract, and keywords) should also be sent to the corresponding editor Seungmin Rho (smrho@korea.ac.kr). All the papers will be peer-reviewed following the MTAP reviewing procedures.

Important Dates (Tentative)

Submission of papers: June 15, 2010

First-round acceptance notification: September 15, 2010

Revision: October 31, 2010

Final decision: December 15, 2010

Publication of special issue: Spring/Summer in 2011

Guest Editors

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