

2nd European Workshop on the Integration of Knowledge, Semantic and Digital Media Technologies



30 November - 1 December, 2005, IEE Savoy Place, London



European Commission

CALL FOR PAPERS

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In order to realize the full potential of emerging digital media technologies aimed at the production of standards and the delivery of compelling multimedia solutions, the interlinking of knowledge, semantics and low-level multimedia processing is urgently needed. Indeed, technologies integrating different aspects of knowledge, semantics and low-level multimedia processing are currently the subject of active research in industry and academia across the world. This reflects the commercial importance of such convergent trends and evidences the fact that several underlying problems, though currently unsolved, are being tackled in a concerted effort by the research community. The objective of integrative research on knowledge, semantics and low-level multimedia processing is twofold: to blur the edges between personalised and mass produced content by enabling considerably more advanced forms of digital media creation and delivery; and to reduce the large disparity between the low-level features or content descriptors that can be computed automatically from the digital content (CBIR systems), and the richness and subjectivity of semantics in user queries and high-level human interpretations of audiovisual media -the Semantic Gap in multimedia processing.

This workshop addresses integrative research targeting the engineering of new knowledge-based forms of digital media systems. It intends to bring together those forums, projects, institutions and individuals engaged in research aimed at the integration of knowledge, semantics and low-level multimedia processing, and link them with industrial research and development engineers who could exploit the underlying emerging technology.

Topics

Topics of interest include, but are not limited to:

- Integration of content-based multimedia analysis for low and medium-level signal processing and natural language and speech processing
- Knowledge assisted multimedia data mining
- Relevance feedback for semantic semi-automatic annotation
- Integration of multimedia processing and Semantic Web technologies to enable automatic content sharing, processing and interpretation by machines.
- Multimedia ontology infrastructures for specific application domains
- Scalable and robust content representation, adaptation and transmission
- Content, user and network aware media engineering
- Knowledge based inference for semantic media annotation
- Multimodal techniques, high dimensionality reduction and low-level feature fusion
- Standards bridging the multimedia and knowledge domains

EU IST symposium

In cooperation with the EU commission DG Information Society, the second day of the workshop is dedicated to a Symposium featuring the launch of the 7th Work Program, a Keynote on the IST vision and informative talks from EU commission representatives.

Paper Submission and Publication

Prospective authors are invited to submit extended summaries using the on-line system at <http://www.acemedia.org/ewimt2005>. Accepted papers will be published in the Workshop Proceedings.

Important Dates

15 August 2005

Submission of extended summary

20 September 2005

Notification of acceptance

10 October 2005

Submission of camera-ready papers

The event is sponsored by the EU commission IST programme, the COST292 Action on semantic multimodal analysis of digital media, Motorola, the IST IP aceMedia, the media service research center, the Multimedia and Vision Lab, QMUL, ITI, and the IEE.



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