

12th Workshop on Content Based Multimedia Indexing (CBMI 2014)

Klagenfurt, Austria - June 18-20 2014

Preface

Following the eleven successful previous events of CBMI (Toulouse 1999, Brescia 2001, Rennes 2003, Riga 2005, Bordeaux 2007, London 2008, Chania 2009, Grenoble 2010, Madrid 2011, Annecy 2012, and Veszprem 2013), it was our pleasure to host CBMI 2014, the 12th International Content Based Multimedia Indexing Workshop, in Klagenfurt, Austria in June 18-20, 2014. CBMI 2014 was organized in cooperation with IEEE Circuits and Systems Society and ACM SIG Multimedia.

The 12th International Content Based Multimedia Indexing Workshop aims at bringing together the various communities involved in all aspects of content-based multimedia indexing, retrieval, browsing and presentation. The scientific program of CBMI 2014 includes invited keynote talks, regular oral presentation sessions, a poster and demo session, and three special sessions with contributed research papers. This year's CBMI received a total of 47 submissions for the main track, from which 16 have been accepted for oral presentation, and 12 more have been accepted as posters. This adds up to an acceptance rate of 34% for full papers and 60% overall rate. The demonstrations track of CBMI 2014 saw seven submissions, from which three have been accepted. For the special session twelve papers have been submitted, from which seven have been accepted for presentation and publication.

This year's CBMI hosted three special sessions. The *Special Session on Medical Multimedia Processing* focuses on visual indexing of medical image collections or video archives, medical multimedia retrieval, browsing and presentation of medical multimedia data, endoscopic video processing, and human computation for medical multimedia processing. The *Special Session on Multimedia Metadata* is co-organized by the Multimedia Metadata Community (<http://www.multimedia-metadata.info/>), which has already organized many successful events in the past. Topics include multimedia annotation, semantics and ontologies, metadata models and standards, storage and indexing of multimedia metadata, metadata from social software, crowd-sourcing and gamification, and multimedia metadata in mobile and cloud computing.

The *Special Session on Image Retrieval in Remote Sensing* addresses challenges like dealing with extremely large and real time geospatial data, or user-friendly querying and retrieval satellite images or mosaics, and aims to allow researchers from multimedia retrieval and remote sensing to meet and share their experiences in order to build the remote sensing retrieval systems of tomorrow. Topics of the session are content-

and context-based indexing, search and retrieval, search and browsing on web repositories to face the Peta/Zettabyte scale, advanced descriptors and similarity metrics, usage of knowledge and semantic information, machine learning for image retrieval, query models, paradigms, and languages, multimodal / multi-observations (sensors, dates, resolutions) analysis, HCI issues, evaluation of RS retrieval systems, high performance indexing algorithms, summarization and visualization of very large satellite image datasets, and applications of image retrieval, all in the context of remote sensing.

Besides the submitted and peer-reviewed contributions we had three keynotes at CBMI 2014. Klara Nahrstedt, from the University of Illinois at Urbana-Champaign, talked about *Activity Recognition and Psychophysics: Towards Real-Time Processing of 3D Tele-immersive Video*, Andreas Uhl, from Paris Lodron University of Salzburg, discussed *Can you trust your content based retrieval system?*, and Klaus Schöffmann, from Klagenfurt University, talked about *Video Browsing*.

CBMI 2014 also supported especially young researchers and granted scholarships to the PhD students Emir Sokic, Hasmik Osipyan, Mohammadreza Babaei, and Olfa Ben Ahmed.

Mathias Lux, General Chair

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