

## Special Issue on Social Image and Video Content Analysis

### Call for Papers

The performance of image and video analysis algorithms for content understanding has improved considerably over the last decade and their practical applications are already appearing in large-scale professional multimedia databases. However, the emergence and growing popularity of social networks and Web 2.0 applications, coupled with the ubiquity of affordable media capture, has recently stimulated huge growth in the amount of personal content available. This content brings very different challenges compared to professionally authored content: it is unstructured (i.e., it needs not conform to a generally accepted high-level syntax), typically complementary sources are available when it is captured or published, and it features the "user-in-the-loop" at all stages of the content life-cycle (capture, editing, publishing, and sharing). To date, user provided metadata, tagging, rating and so on are typically used to index content in such environments. Automated analysis has not been widely deployed yet, as research is needed to adapt existing approaches to address these new challenges.

Research directions such as multimodal fusion, collaborative computing, using location or acquisition metadata, personal and social context, tags, and other contextual information, are currently being explored in such environments. As the Web has become a massive source of multimedia content, the research community responded by developing automated methods that collect and organize ground truth collections of content, vocabularies, and so on, and similar initiatives are now required for social content. The challenge will be to demonstrate that such methods can provide a more powerful experience for the user, generate awareness, and pave the way for innovative future applications.

This issue calls for high quality, original contributions focusing on image and video analysis in large scale, distributed, social networking, and web environments. We particularly welcome papers that explore information fusion, collaborative techniques, or context analysis.

Topics of interest include, but are not limited to:

- Image and video analysis using acquisition, location, and contextual metadata
- Using collection contextual cues to constrain segmentation and classification
- Fusion of textual, audio, and numeric data in visual content analysis

- Knowledge-driven analysis and reasoning in social network environments
- Classification, structuring, and abstraction of large-scale, heterogeneous visual content
- Multimodal person detection and behavior analysis for individuals and groups
- Collaborative visual content annotation and ground truth generation using analysis tools
- User profile modeling in social network environments and personalized visual search
- Visual content analysis employing social interaction and community behavior models
- Using folksonomies, tagging, and social navigation for visual analysis

Authors should follow the EURASIP Journal on Image and Video Processing manuscript format described at <http://www.hindawi.com/journals/ivp/>. Prospective authors should submit an electronic copy of their complete manuscripts through the journal Manuscript Tracking System at <http://mts.hindawi.com/>, according to the following timetable:

|                        |                   |
|------------------------|-------------------|
| Manuscript Due         | June 1, 2008      |
| First Round of Reviews | September 1, 2008 |
| Publication Date       | December 1, 2008  |

### Guest Editors

**Yannis Avrithis**, National Technical University of Athens, Athens, Greece; [iavr@image.ntua.gr](mailto:iavr@image.ntua.gr)

**Yiannis Kompatsiaris**, Informatics and Telematics Institute, Thessaloniki, Greece; [ikom@iti.gr](mailto:ikom@iti.gr)

**Noel O'Connor**, Centre for Digital Video Processing, Dublin City University, Dublin, Ireland; [ooncorn@eeng.dcu.ie](mailto:ooncorn@eeng.dcu.ie)

**Jan Nesvadba**, Philips, Eindhoven, The Netherlands; [jan.nesvadba@philips.com](mailto:jan.nesvadba@philips.com)