Mobile Media Retrieval
Special Issue IEEE Trans. on Multimedia

Title: Mobile Media Retrieval

Aims and Scope:

The explosive growth of digital photos and videos, the prevalence of capture devices, and the advent of media-sharing services have drastically increased the volume of community-contributed multimedia resources. Meanwhile, mobile devices are becoming ubiquitous and playing vital roles in people's daily life. While on the go, people are using their phones as a personal concierge discovering what is around and deciding what to do. Today's mobile users not only expect fast Internet connection wherever they go and timely interaction with each other via social network on the move, but also seek effective and efficient user experience on searching and managing media contents on mobile devices. We can see that terminals to share and consume media contents are shifting from traditional desktops to mobile devices. Therefore, the techniques for mobile media retrieval are highly desired along this trend.

Successfully deploying and consuming mobile media applications requires significant multi-disciplinary research efforts, from media acquisition, editing, sharing, browsing, analysis, management, search, advertising, to exciting new opportunities, such as integration with location data, adaptive video summarization and visualization, context-aware services, and mobile media experience.

Unlike prior special issues that mostly focus on mobile communication and service delivery challenges, this special issue will focus on mobile media content analysis and retrieval. Compared with standard media retrieval, the media objects on mobile devices tend to be associated with richer context (such as user profile, location, time, weather, traffic, and so on) and are much more personalized and socially-involved. In addition, mobile devices are increasingly equipped with advanced functions, such as multimodal and multi-touch interactions, that can be used to enrich/manipulate captured media and help users express their media needs. These bring new opportunities as well as research challenges in mobile media retrieval to the multimedia research community. The aim of this special issue is to bring out the state-of-the-art research in this area and discover directions for future research.

We believe this special issue will offer a timely collection of novel research results to benefit the researchers and practitioners working in mobile media retrieval as well as to the broad multimedia community.

Topics of Interests:

This special issue is devoted to the publications of high quality papers on technical developments and practical applications around mobile media retrieval. It will serve as a forum for recent advances in the fields of mobile media analysis, indexing, mining, search, and emerging new applications, such as geo-media systems, context-aware mobile advertising, and personalized mobile experience. Integration of media content, semantic concept and mobile context is of particular interest. We invite original and high quality submissions addressing all aspects of this field closely related to mobile multimedia retrieval, including mobile database management, data mining for mobile users, social networking analysis, location-based services:. Relevant topics include, but are not limited to, the following:

- Multimedia retrieval on mobile devices
- Multimedia indexing and mining on mobile devices
- Multimodal interaction and visualization on mobile devices

- Mobile media data management
- Location-based mobile media applications
- Visual recognition on mobile devices
- Mobile media computing for social networks
- Augmented reality for mobile media applications
- Media retargeting, editing, and authoring on mobile devices
- Mobile media recommendation
- Mobile media search in clouds
- Context-aware mobile services
- Geo-media applications
- Personalized experience in mobile devices
- Real-time systems for mobile media retrieval
- Natural language processing for mobile media retrieval
- New business models and service concepts for mobile media

Submission Guidelines:

Submissions should be submitted through the IEEE Trans. on Multimedia journal web server (http://mc.manuscriptcentral.com/tmm-ieee). Papers should be formatted according to the guidelines for authors (http://www.signalprocessingsociety.org/tmm/tmm-author-info/). During the submission, the authors should indicate that this is a submission for the special issue on "Mobile Media Retrieval" (i.e., select the appropriate special issue title under the category "Manuscript Type"). All submissions will undergo a blind peer review by three expert reviewers to ensure a high standard of quality. Referees will consider originality, significance, technical soundness, clarity of exposition, and relevance to the special issue topics above.

Important Dates:

- Paper Submission: Sept. 17, 2012
- First Notification: Feb. 1, 2013
- Revised Manuscript: May 1, 2013
- Notification of Acceptance: July 1, 2013
- Final Manuscript Due: Aug. 15, 2013
- Publication Date: Dec., 2013

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