

Call for Papers



ACM Transactions on
Intelligent Systems and Technology

ACM Transactions on Intelligent Systems and Technology (ACM TIST) Special Issue on *Mobile Social Multimedia Analytics in the Big Data Era*

Aim and Scope

The proliferation of mobile devices has led to a bright new stage in which multimedia search and analysis are increasingly moving from the desktop to the cloud. Nowadays, it has become convenient to capture images and videos on the mobile end and associate them with social and contextual metadata such as comments and GPS tags. Such a hybrid data structure can benefit a wide variety of potential multimedia applications on the mobile end, such as location recognition, landmark search, augmented reality, and commercial recommendations. One intrinsic potential is to explore large-scale social multimedia to assist and facilitate location related applications, which is further promoted by the evolution of mobile devices. With the combination of social and mobile cues, several problems that are previously difficult to be tackled in multimedia content analysis have also become more tractable. For example, multiple images can be captured for accurate object research and recognition. And in the case of visual search, large-scale image repository can be significantly pruned by employing GPS tags to filter out irrelevant images with respect to the query. It has become ever emerging when the analytics of mobile social multimedia face the big data era. Several challenges have been raised, for instance, how to design a suitable cloud/distributed architecture, how to carry out online computing efficiently, and how to handle the scalability issue. When being applied to big data applications, lots of the existing tools and systems for mobile social multimedia analytics would become questionable. On the other hand, the big data itself has provided unique opportunity to accomplish the above tasks.

We see a timely opportunity for organizing a special issue to bring together active researchers to share recent progress in this exciting area. The goals of this special issue will be three-fold: (1) present new theories and new application scenarios on mobile social multimedia computing, communication, and application; (2) survey the recent progress in this area; (3) discuss new applications and problems.

Topics of Interests

The target papers should focus on mobile social multimedia computing, communication, and application. The target papers should involve the combination of "mobile" and "social" cues for "multimedia" analytics, i.e., exploiting hybrid information such as image, video, audio plus text in mobile and social scenarios. It is highly encouraged that the submission to investigate new applications, or to address essential problems in this field, such as cloud/distributed architecture, online computing, and scalability. High quality research papers with industrial practices are highly welcome. Topics are included but not limited to:

- Mobile visual search and augmented reality
- Location based multimedia recommendation systems
- Pervasive multimedia computing and communication
- Multimedia big data computing for social and mobile applications
- Multi device scene modeling in ad hoc wireless network
- Interactive TV and entertainment in mobile devices
- Mobile and social network privacy
- Cloud-terminal collaboration in MM computation

- Future trends in mobile social multimedia analytics

Paper Submission

Manuscripts shall be sent through the ACM TIST electronic submission system at <http://mc.manuscriptcentral.com/tist> (please select "Mobile Social Multimedia Analytics in the Big Data Era" as the manuscript type). Submissions shall adhere to the ACM TIST instructions and guidelines for authors available at the journal website: <http://tist.acm.org>. The papers will be evaluated for their originality, contribution significance, soundness, clarity, and overall quality. The interest of contributions will be assessed in terms of technical and scientific findings, contribution to the knowledge and understanding of the problem, methodological advancements, and/or applicative value. If the submission is an extended version of a previously published workshop or conference paper, this should also be explicitly mentioned in the cover letter, and the submitted journal paper must technically extend the conference version, by 30% according to TIST rules; i.e., the technical contribution in the journal version must be extended beyond what was presented in the conference version.

Important Dates

Paper submission due: July 15th, 2015 (~~June 15~~)
First round of reviews: September 15th, 2015
First round of revisions: November 15th, 2015
Second round of reviews: January 15th, 2016
Final round of revisions: March 15th, 2016
Final paper notification: May 15th, 2016

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