



Call for Papers

## Multimedia Systems

Special Issue on

# Mobile Visual Tagging with Mobile Context

### Aims and Scope

Recently, the wide popularity of mobile equipments has greatly changed our daily life both in the aspect of human-to-human communication and human-to-computer information accessing. An important property under this circumstance is that the visual contents are playing more and more dominant roles. We take pictures using mobile phones everyday; we can send image/video messages to our friends at anywhere and any time; and online social communities are fed with images such as twitter, Facebook etc. For example, in Facebook, users upload 350 million images per-day. How to satisfactorily utilize and manage these visual information presents a great challenge for visual information understanding technologies. We are now seeing the fast improvement of image recognition techniques with the recent development of deep feature learning, cross-media annotation, contextual information complementation, transfer learning etc. However, there is still a lot of work to do to satisfy the requirements for different applications. In fact, mobile equipments brings a lot of contextual information, which can be useful clues to facilitate image annotation and tagging.

Moreover, mobile context is enriched with application-specific information in two levels: One is internal contextual information which are intrinsically contained in the mobile equipment such as personal profile, stored textual/visual content, camera and other sensor's parameters. The other is the external contextual information which could be easily acquired by the mobile equipment such as weather, geolocation and aural information etc. How to fully utilize these information is an interesting and promising research problem. By exploring this problem we expect research community will not only build novel applications, but also gain research progress in visual tagging and location based services.

This special issue aims to seek innovative papers that exploit novel technologies and solutions from both industry and academia on how to recognize and tag images/videos with mobile contextual information. All the topics related to mobile visual tagging with mobile context are welcome.

### Topics

All the topics related to mobile visual tagging with mobile context are welcome. However, papers in the following areas and topics are particularly encouraged for this special issue:

- Feature learning with mobile context;
- Visual similarity computing with mobile context;

- Machine learning techniques for mobile visual tagging with mobile context;
- Socially mobile image tagging;
- Novel techniques for extractable mobile visual tagging(EMPT);
- Special concept tagging with mobile context, such as landmark tagging, dish tagging, event tagging, etc.
- Visual tagging with internal or external mobile context;
- Novel incentive mechanisms for mobile visual tagging;
- Evaluation measures, and benchmarking for visual tagging with mobile context.

### Important Dates

Paper submission due:	June 30 <sup>th</sup> , 2015
First notification:	August 15 <sup>th</sup> , 2015
Revision:	October 15 <sup>th</sup> , 2015
Final decision:	January 15 <sup>th</sup> , 2016
Publication date:	The third or the fourth quarter 2016 (Tentative)

### Guest Editors

**Prof. Shuqiang Jiang**, Institute of Computing Technologies, Chinese Academy of Sciences, China (sqjiang@ict.ac.cn)

**Dr. Liangliang Cao**, IBM T.J. Watson Research Lab, USA (liangliang.cao@gmail.com)

**Dr. Jitao Sang**, Institute of Automation, Chinese Academy of Sciences, China (jtsang@nlpr.ia.ac.cn)

**Prof. Jiebo Luo**, University of Rochester, USA (jluo@cs.rochester.edu)

**Prof. Ramesh Jain**, University of California, Irvine, USA (jain@ics.uci.edu)

### Submission Guideline

Papers submitted to this special issue for possible publication must be original and must not be under consideration for publication in any other journal or conference.

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, the published paper must be cited in the submitted journal paper, and the submitted journal paper must technically extend the conference version, by 30% according to MMSJ rules; i.e., the technical contribution in the journal version must be extended beyond what was presented in the conference version.

Authors must follow the formatting and submission instructions of MMSJ at

<http://www.springer.com/530> and follow the "Submit Online" link on that page. Please make sure you select the SI title when you submit on-line, and mention in your cover letter that you are submitting to this special issue.



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