EURASIP Journal on Image and Video Processing

Special Issue on Mobile Image and Video Processing

The intimate presence of mobile devices in our daily life, such as smartphones and various wearable gadgets like smart watches, has dramatically changed the way we connect with the world around us. Research issues and challenges brought by the emerging technologies for mobile image and video lie ahead and many research questions remain to be answered. For example, seamless user experience has been identified as one key factor in designing mobile image and video applications for multiple form factors, but its provision is challenging and requires effective integration of rich mobile sensors and multidisciplinary research.

Nowadays, with the popularity of smartphones and various wearable gadgets, the breakthrough of mobile image and video technologies has come from all aspects. To name a few, MPEG has recently developed a new standard for mobile visual search, namely MPEG Compact Descriptors for Visual Search (MPEG CDVS). Also, the success of Instagram, a mobile authoring app, has attracted more than 200 million monthly active users until November 2014. Moreover, new wearables (e.g., smart watches such as Apple Watch or integrated displays such as Google Glass) as new types of digital personal assistants showed their potential to be the next-generation mobile media devices. Witnessing all these mobile breakthroughs, therefore, we believe that it is important to investigate the current advances and future trends in mobile image and video processing.

Potential topics include, but are not limited to:

- Emerging techniques for next generation mobile video/image coding
- Novel image and video applications taking advantage of mobile devices
- Mobile image/video indexing and retrieval
- Mobile visual content adaptation and adaptive streaming
- Mobile visual search
- 2D/3D computer vision on mobile devices
Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at jivp.eurasipjournals.com/authors/instructions. Prospective authors should submit an electronic copy of their complete manuscript through the submission system at editorialmanager.com/jivp according to the submission schedule. They should choose the correct Special Issue in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “Special Issue on Mobile Image and Video Processing” in the cover letter. All submissions will undergo initial screening by the guest editors for fit to the theme of the special issue and prospects for successfully negotiating the review process.

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• Visual content analysis, representation, and understanding with mobile and wearable devices
• Computational photography on mobile devices
• Mobile virtual and augmented reality
• Action/gesture/object recognition with mobile sensors
• Other topics related to mobile image and video processing

Submission Schedule
Manuscripts due:
July 31, 2016