

**Call for Papers**  
**IEEE TRANSACTIONS ON MULTIMEDIA**  
Special Issue on “**Social Media as Sensors**”

**Summary**

Web 2.0 applications and social media have transformed the Web into an interactive sharing platform where users upload data and media, comment on and share this content within their social circles. Each content item is associated with an abundance of metadata and related information such as location, tags, comments, favourites, access patterns and logs etc. At the same time all this information is implicitly or explicitly interconnected based on various properties such as social links between users, groups, communities, etc. These properties transform social media to data sources of an extremely dynamic nature that reflect topics of interests, events, and the evolution of community opinion and focus. Social media offer a unique opportunity to structure and extract information and to benefit multiple areas ranging from computer vision to sociology and marketing.

**Scope**

This special issue targets a mixed audience of researchers from several communities, i.e. computer vision, multimedia analysis, data mining, machine learning, information extraction, social networks, complex systems, and information retrieval. The emphasis of the special issue is on recognition, discovery, and detection of topics and real-world events, as well as on monitoring and prediction of trends and events using social media sites as sensors. Both theoretical contributions and applications validated on large-scale social media datasets are welcome.

Topics of interest include, but are not limited to:

- Scalable and multimodal social media analysis
- (Near) real-time social media analysis
- Data mining and knowledge extraction from social media
- Community detection and clustering in social media
- Spatio-temporal analysis for event discovery and detection
- Social media applications for prediction and monitoring
- Behaviour analysis in social media
- Analysis of world events from social media streams
- Social media systems applied to political analysis, emergency management, and news generation
- Social media as a source for sensing reality
- Social media enabled applications (e.g. tourism, augmented reality, e-participation, etc)
- Other applications of social media as sensors

**Submission Procedure**

Prospective authors should submit high quality, original manuscripts that have not appeared, nor are under consideration, in any other journals. Manuscripts should be submitted electronically through the online IEEE manuscript submission system at (<http://tmmieee.manuscriptcentral.com/>). All papers will be reviewed by at least three independent reviewers. Papers should be formatted according to the IEEE Transactions on Multimedia guidelines for authors (please visit: [http://www.ieee.org/organizations/society/tmm/author\\_info.html](http://www.ieee.org/organizations/society/tmm/author_info.html)).

**Important dates**

Submissions deadline: 16-Aug-2012  
First notification: 1-Nov-2012  
Revised manuscript: 30-Jan-2013

Notification of acceptance: 15-Mar-2013  
Final Manuscript: 15-Apr-2013  
Publication date: August 2013

**Guest Editors**

**Yiannis Kompatsiaris**

CERTH-Informatics and Telematics Institute,  
Greece  
Email: [ikom@iti.gr](mailto:ikom@iti.gr)

**Jiebo Luo**

University of Rochester, US  
Email: [jiebo.luo@gmail.com](mailto:jiebo.luo@gmail.com)

**Daniel Gatica-Perez**

Idiap Research Institute  
Swiss Federal Institute of Technology (EPFL)  
Switzerland  
Email: [gatica@idiap.ch](mailto:gatica@idiap.ch)

**Xing Xie**

Microsoft Research Asia  
Email: [xing.xie@microsoft.com](mailto:xing.xie@microsoft.com)