# ACM Transactions on Multimedia Computing Communications and Applications (ACM TOMM)

## Call for Papers

## Special Issue on Multi-modal Understanding of Social, Affective and Subjective Attributes of Data

Traditionally, the recognition of *tangible* properties of data, such as objects and scenes, have overwhelmingly covered the spectra of applications in multimedia, computer vision and signal processing. In the recent past and partly fostered by social media, the understanding of **social, affective and subjective attributes** of data has attracted the attention of many research teams at the crossroads of computer vision, multimedia, and social sciences. These attributes include the ones assessed by individuals (*e.g*. safety, interestingness, evoked emotions, memorability) as well as aggregated emergent properties (such as popularity or virality). In a nutshell, the focus of the special issue is on computational and experimental methods to learn, infer, or retrieve SA from multi-modal data and their applications (e.g. SA-based advertising, retrieval and search), as well as to understand how and why humans perceive SA. More specifically, the topics include:

- Data collection/annotation and evaluation methods for SA studies, including active learning and crowdsourcing.
- Learning and inference techniques for *individual* SA recognition in multimedia data, including beauty, sentiment, interestingness, memorability, creativity, ambiance.
- Learning and inference techniques for *aggregated* SA detection in multimedia data, including virality, popularity, engagement.
- User diversity-aware models for individual and collective SA detection and retrieval. Systematic studies regarding the impact of user's demographics (e.g., gender, age, race) and psychological characteristics (e.g., personality, emotional state) in relation to subjective preferences.
- Systematic analysis on the effect of the individual's social network on the perception of SA.
- Methods using SA to structure data, for instance for visualization or media selection
- Experimental Psychology and Computational Social Science studies using multimedia data to understand human behavior.

## Important Dates

- Submission deadline: October 1st, 2017
- Decision notification: January 31st, 2018
- Revised manuscript due: April 15th, 2018
- Acceptance notification: May 31th, 2018
- Camera-ready version: July 31st, 2018
- Online Publication: October, 2018

## Review Process

The review process will comply with the standard review process of the ACM Transactions on Multimedia Computing, Communications and Applications (ACM TOMM) journal. Each paper will receive at least three reviews from experts in the field.

## Submission Instructions

Prospective authors are invited to submit their manuscripts electronically after the “open for submissions” date, adhering to the ACM Transactions on Multimedia Computing, Communications and Applications journal guidelines (see http://tomm.acm.org/authors.cfm). Please submit your papers through the online system and be sure to select the special issue. Manuscripts should not be published or currently submitted for publication elsewhere. Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere. If the submission is an extended work of a previously published conference paper, please include the original work and a cover letter describing the changes that have been made. According to ACM TOMM publication policy previously published conference papers can be eligible for publication provided that at least 25% new material is included in the journal version.

## Guest Editors

Dr. Xavier Alameda-Pineda — Research Scientist, INRIA

Dr. Miriam Redi — Research Scientist, Bell Labs

Dr. Mohammed Soleymani — Senior Researcher, U. Geneva

Prof. Nicu Sebe — Full Professor, U. Trento

Prof. Shih-Fu Chang — Full Professor, Columbia U.

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