Special Issue Proposal for JVCIR (Elsevier)

Special Issue on

Cross-Media Big Data Analytics

1. Summary and Scope

We are living in the era of data deluge. Meanwhile, the world of big data exhibits a rich and complex set of cross-media contents, such as text, image, video, audio and graphics. Thus far, great research efforts have been separately dedicated to big data processing and cross-media mining, with well theoretical underpinnings and great practical success. However, studies jointly considering cross-media big data analytics are relatively sparse. This research gap needs our more attention, since it will benefit lots of real-world applications. Despite its significance and value, it is non-trivial to analyze cross-media big data due to their heterogeneity, large-scale volume, increasing size, unstructured, correlations, and noise.

This special issue serves as a forum to bring together active researchers all over the world to share their recent advances in this exciting area. We solicit original contributions in three-fold: (1) present state-of-the-art theories and novel application scenarios related to cross-media big data analytics; (2) survey the recent progress in this area; and (3) build benchmark datasets.

The list of possible topics includes, but not limited to:

- Cross-Media Big Data Representation
    - Data-driven feature learning
    - Large-scale multimodal media data acquisition
    - Hand-crafted image/audio/video feature extraction
    - Novel dataset and benchmark for cross-media big data analytics

- Cross-Media Big Data Management
    - Large-scale multimodal information fusion
    - Domain adaptation for cross-media big data
    - Cross-media big data organization, retrieval and indexing

- Cross-Media Big Data Understanding and Applications
    - Object/event detection, tracking and recognition
    - Multimedia question-answering with cross-media big data
    - Learning methods to bridge the semantic gap among media types
    - Health, economics and other applications over cross-media big data

2. Submission Guideline

Authors should prepare their manuscripts according to the online submission requirements of "Journal of Visual Communication and Image Representation" (JVCIR) at http://www.journals.elsevier.com/journal-of-visual-communication-and-image-representation. All the papers will be peer-reviewed following the JVCIR reviewing procedures. The submissions should clearly demonstrate the evidence of benefits to society or large communities. Originality and impact on society, in combination with the media nature and innovative technical aspects of the proposed solutions, will be the major evaluation criteria.

3. Important Dates

Submission Deadline: September 16th, 2016

First Review Decision: November 15th, 2016

Second Review Decision: January 30th, 2017

Final Manuscript: March 15th, 2017

Expected Publication: June, 2017

4. Guest Editors

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