



Multimedia Tools and Applications

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Editor-in-Chief: Borko Furht

Special issue on “Content-based Multimedia Indexing in the Era of Artificial Intelligence”

Content-based Multimedia Indexing in the Era of Artificial Intelligence –Special Issue of CBMI 2019

Content-based approaches to multimedia analysis, indexing, search and exploration have long been a cornerstone of facilitating access to multimedia and multimodal collections. Modeling the properties of increasingly heterogeneous multimedia items and their complex relations in parallel to indexing is a challenging task. Recent advances in Artificial Intelligence (AI) and, in particular, deep learning have given a new boost to practically every aspect of multimedia research.

This Special Issue aims at gathering and presenting new advances in the tasks and applications related to AI in Content-based Multimedia Indexing. It solicits original work that is not under consideration for publication in other venues. If the papers were published and presented at CBMI 2019 conference, their extended versions should be submitted with a 15-page minimum.

The topics of interest include, but are not limited to:

- Audio, visual and multimedia indexing;
- Multimodal and cross-modal indexing;
- Visual content extraction and interpretation;
- Audio (speech, music, etc.) content extraction and interpretation;
- Identification and tracking of semantic regions and events;
- Social media analysis;
- Multimedia information retrieval (image, audio, video, text);
- Mobile media retrieval;
- Event-based media processing and retrieval;
- Affective/emotional interaction or interfaces for multimedia retrieval;
- Multimedia and multimodal data mining and analytics;
- Multimedia recommendation;
- Large scale multimedia database management;
- Summarization, browsing and organization of multimedia content;
- Personalization and content adaptation;
- User interaction and relevance feedback;

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Important Dates/Tentative schedule

Submission deadline: 20th October 2019

Final Manuscript due: 1st April 2020

Tentative publication date: Summer 2020

Submission Guidelines

Authors should prepare their manuscript according to the Instructions for Authors available from the Multimedia Tools and Applications [website](#). Authors should submit through the online submission site at <https://www.editorialmanager.com/mtap/default.aspx> and select “**SI 1154T - Content-Based Multimedia Indexing in the Era of Artificial Intelligence**” when they reach the “Article Type” step in the submission process. Submitted papers should present original, unpublished work, relevant to one of the topics of the Special Issue. All submitted papers will be evaluated on the basis of relevance, significance of contribution, technical quality, scholarship, and quality of presentation, by at least three independent reviewers. It is the policy of the journal that no submission, or substantially overlapping submission, be published or be under review at another journal or conference at any time during the review process