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Symposium on Knowledge-based Multimedia Computing Call for Papers

General Co-Chairs:

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Technical Co-Chairs:

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The rapid advances in multimedia technology have resulted in a proliferation of multimedia data on the Internet. This is reflected in the success of the social networks, such as Facebook, Twitter, YouTube, Flickr and Pinterest, which dramatically increased the volume of community-shared media, including images and videos. Although these websites allow users to annotate and rate them, the accurate annotations of online media are very rare and unsatisfactory. Thus, accurately understanding these multimedia content is a very significant and challenging issue. The scenario of online multimedia understanding has usually large number of categories with unconstrained domains and noise. Recent progress on deep model open an exciting new era of knowledge-based multimedia computing, which can capture the complex content with domain-specific knowledge. Moreover, some works about dense image captioning, visual relationship detection, visual question answering, knowledge inference and social network knowledge graph also provide insight into tackling the above issue. The prior knowledge, experience and human perceptual theory are playing a critical pole in accurately understanding the multimedia under the network environment. This symposium aims at providing a forum to present the original and innovative research works that report the latest results and advances in the field of knowledge-based multimedia computing. Besides covering the state-of-the-art research in this topic, another goal of this symposium is to provide new directions for future research. Topics of interest include but are not limited to:

- Semantics inferring of multimedia.
- Dense image captioning.
- Question & answering in the images.
- Context-assisted large-scale image understanding.
- Social media based knowledge mining and community modeling.
- Ontology-driven analysis and processing.
- Visual relationship detection in the large scenario.
- Context-aware image processing and recommendation.
- Social media and online data for image analysis and processing.
- Novel sources of knowledge applied to multimedia analysis.
- Novel multimedia applications exploiting the knowledge.

Paper Submission: Prospective authors are invited to submit full-length papers (up to 4 pages for technical content including figures and possible references, and with one additional optional 5th page containing only references) and extended abstracts (up to 2 pages, for paper-less industry presentations and Ongoing Work presentations) via the GlobalSIP 2017 conference website. Manuscripts should be original (not submitted/published anywhere else) and written in accordance with the standard IEEE double-column paper template. Accepted full-length papers will be indexed on IEEE Xplore. Accepted abstracts will not be indexed in IEEE Xplore, however the abstracts and/or the presentations will be included in the IEEE SPS SigPort. Accepted papers and abstracts will be scheduled in lecture and poster sessions.

Important Dates:

- ❖ **May 15, 2017:** Paper submission due
- ❖ **June 30, 2017:** Notification of Acceptance
- ❖ **July 22, 2017:** Camera-ready papers due

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