Symposium on Deep Learning for Intelligent Multimedia Analytics & Security
Call for Papers

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Today's digital contents are inherently multimedia: text, image, audio, video etc., due to the advancement of multimodal sensors. Image and video contents, in particular, become a new way of communication among Internet users with the proliferation of sensor-rich mobile devices. Accelerated by tremendous increase in Internet bandwidth and storage space, multimedia data has been generated, published and spread explosively, becoming an insecurity part of today's big data. Such large-scale multimedia data has opened challenges and opportunities for intelligent multimedia content analytics & security, e.g., management, retrieval, recognition and categorization. Meanwhile, with the recent advances in deep learning techniques, we are now able to boost the intelligence of multimedia content analysis significantly and initiate new research directions to understand multimedia content. For instance, convolutional neural networks have demonstrated high capability in image and video recognition, while recurrent neural networks are widely exploited in modeling temporal dynamics in videos. Therefore, deep learning for intelligent multimedia analytics & security is becoming an emerging research area in the field of multimedia and computer vision. The goal of this symposium is to call for a coordinated effort to understand the scenarios and challenges emerging in multimedia content analytics & security with deep learning techniques, showcase innovative methodologies and ideas, introduce large scale real systems or applications, as well as propose new real-world datasets and discuss future directions. Topics include, but are not limited, to the following:

- Signal and information processing for Multimedia retrieval (image/video search, speech/audio search, music search, retrieval models, hashing) for intelligent multimedia content analytics & security
- Visual semantic analysis for intelligent multimedia content analytics & security
- Home/public video surveillance analysis (motion detection and classification, scene understanding, event detection and recognition, people analysis, object tracking and segmentation, human computer/robot interaction, behavior recognition, crowd analysis)
- Real-world applications of multimedia computing for intelligent multimedia content analytics & security
- Data collections, benchmarking, and performance evaluation
- Multimodal signal representation and visualization
- Other applications of large-scale multimedia data

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. The 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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