Special Session 13: Deep Learning-Enabled Multimedia Big Data Analytics with Applications

With the increment of ubiquitously online services and mobile computing technologies, the world has stepped into a multimedia big data era. A large amount of research work has been conducted in the multimedia area, aiming at different aspects of big data analytics, such as the acquisition, storage, indexing, mining, retrieval, classification, and recognition of multimedia data. Moreover, with the fast growth of deep learning algorithms and applications as well as efficient computing architectures enabled by GPU, deep learning has achieved great success in numerous related tasks, such as image classification/understanding, and object/face detection and recognition, benefited by large-scale feature learning. Therefore, this special session will focus on all aspects of deep learning-enabled multimedia big data analytics, including the designs of network architectures, algorithms, and applications. Topics of the session will cover deep learning-enabled trend forecasting via multimedia big data, multimedia big data analytics from different modalities of surveillance cameras, multimedia big data analytics from on-road dash cameras or vehicle IoT sensors, deep discriminative feature learning for multimedia big data analytics, security issues in multimedia big data analytics via deep learning, analytics of Industrial multimedia big data, and designs of algorithms or architectures of deep models for multimedia big data analytics.

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