

Special Issue

Deep Learning for Massive Video Surveillance

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About the Special Issue

Massive video surveillance is a concept which is used to effectively monitor all types of public and private areas. Video surveillance based tools help in protecting the people by reduction in criminal activities, theft detection and destruction of or damage to public or private property. Surveillance based technologies are rapidly transforming the ability of intelligent monitoring in civic spaces to collect, categorize, store, analyze, and share the data. Implementing a massive video surveillance system using object detection based on Deep Learning can take the technological thinking to the next level. It uses many layers of non linear forms of extraction and transformation of information. Deep learning concepts has a broad field of application which can be applied in the areas such as computer vision, audio and speech recognition, natural language processing and bioinformatics. However, there may be certain constraints for deep learning in massive video surveillance such as need of a proper storage system for large areas which require multiple cameras, latency related problems in connection of the internet and abnormalities & transmission delays. By understanding and rectifying the basic issues in implementing this concept a robust learning platform can be created to handle for any type of surveillance. This special issue titled "Deep Learning for Massive Video Surveillance" will provide us an opportunity to discuss the various methods, aspects, and concepts implementing Deep learning in Real-time environment.

Suggested Topics

Papers are welcomed on the following topics but not confined to:

- Promises and challenges of implementing deep learning techniques in big surveillance system
- Recognition of video based surveillance from labeled and unlabelled data using deep learning concepts
- Deep learning for moving object identification & classification using deep belief networks
- Recent methods for monitoring Massive Video Surveillance
- Deep learning on video surveillance data for detection and prevention of criminal activities
- Automated data collection and processing of big video surveillance data
- Deep learning on advanced decision making possibilities with the help of big video surveillance data
- A study on deep learning architectures for identity identification for video surveillance related information
- Deep learning for detecting and preventing privacy concerns in surveillance of personal data
- Deep learning tools for real-time forecasting of massive video surveillance data
- Deep learning on social-psychological impact of increased self-awareness for massive video surveillance

Important Dates

01 May 2020

Paper Submission Deadline

15 June 2020

Author notification

25 July 2020

Revised papers submission

30 August 2020

Final Acceptance