ICPR 2020 SPECIAL ISSUE ON:
Real-Time Visual Surveillance as-a-Service (VSaaS) for Smart Security Solutions

**Motivation**

With the advent of fast computational facility, real-time processing of visual data has gained importance in the field of surveillance. Adding to it, automated decision by visual surveillance systems has provided a quantum jump in the capability of such systems, and of course their relevance in social security. The processing of visual data can further be performed not only at backbone architecture, but also partially in the IoT based surveillance devices which have grown smarter enough since last decade to process visual data. Even, the smart devices can form a communication network and reach a joint decision towards surveillance. The nature of processing, however, differs with varying objectives of the surveillance systems.

This special issue aims to discuss cloud-based architectures of surveillance framework as a service. Such systems, especially when deployed-to work in real-time, need to be fast, efficient, and sustainable with varying load of visual data. We solicit original research articles, extensive surveys, and case studies in the aforementioned domain of research. The SI will also host extended versions of solid articles shortlisted from accepted ICPR 2020 papers matching the theme of the special issue.

- Distributed Visual Surveillance Framework: Deployment and Maintenance challenges
- Visual Surveillance as-a-service over the internet
- Conjoint visual surveillance and IoT
- Re-identification and occlusion management in multi-camera network
- Event and Gesture recognition in real-time
- Visual surveillance for indoor and outdoor environments
- Establishing biometric authentication from real-time visual data
- Self-organizing multi camera network models
- Intelligent resource allocation and management over Visual Surveillance as-a-Service (VSaaS)
- Storage, compression, and automated analysis of video data
- Intrusion detection and prevention schemes in VSaaS
- Agent-based intrusion surveillance in Real time
- Detection of malicious information propagation in VSaaS
- Performance evaluation measures and metrics for VSaaS

Submit your paper to the manuscript submission and peer review site via the following link: www.ietdl.org/IET-BMT

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- **Submission Deadline:** 01 January 2021
- **Publication Date:** Mid 2021