

Special Issue on Advanced Video-Based Surveillance

Call for Papers

Over the past decade, we have witnessed a tremendous growth in the demand for personal security and defense of vital infrastructure throughout the world. At the same time, rapid advances in video-based surveillance have emerged and offered a strategic technology to address the demands imposed by security applications. These events have led to a massive research effort devoted to the development of effective and reliable surveillance systems endowed with intelligent video-processing capabilities. As a result, advanced video-based surveillance systems have been developed by research groups from academia and industry alike. In broad terms, advanced video-based surveillance could be described as intelligent video processing designed to assist security personnel by providing reliable real-time alerts and to support efficient video analysis for forensics investigations.

The aim of this special issue is to present recent theoretical and practical advances in the broad area of video processing for advanced surveillance. Topics of interest include, but are not limited to:

- Change and motion detection
- Single- and multitarget tracking
- Single- and multicamera tracking
- Video analytics
- Motion trajectory analysis
- Behaviour analysis and event detection
- Activity analysis and monitoring
- Pattern recognition and machine learning for surveillance
- Automatic video annotation and summarization
- Biometrics for surveillance (e.g., face, iris, gait, etc.)
- Privacy and surveillance
- Performance evaluation of surveillance systems
- Hardware and software architectures for advanced surveillance

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