

### CALL FOR PAPERS

## Special Issue on Intelligent Visual Surveillance Systems

**Publication: October 2010 • Submission Deadline: February 28, 2010**

Visual surveillance refers to real-time observation of objects of interests in a scene such as people or vehicles to find a description of their behaviors. Growing demand for high-level security and safety in commercial, law enforcement, and military applications has led to active research to build intelligent automated surveillance systems that perform with minimal manual reconfiguration on variable applications. Such systems should be robust and adaptable enough to cope with changes in environment like lighting, scene geometry or scene activity. This special issue aims at putting together recent advances in computer vision, pattern analysis, imaging sensors, and computational intelligence toward intelligent visual surveillance applications over the last decade since a couple of excellent special issues on visual surveillance in 2000. Visual surveillance technology has also demonstrated effectiveness to measure traffic flow, detect accidents on highways, monitor pedestrian congestion in public spaces, compile consumer demographics in shopping malls, log routine maintenance tasks at nuclear facilities, and count endangered species. Military applications include patrolling national borders, measuring the flow of refugees in troubled areas, monitoring peace treaties, and providing secure perimeters around military bases.

The special issue on Intelligent Visual Surveillance Systems will cover a broad spectrum of intelligent visual surveillance techniques such as moving object detection, object tracking from stationary and moving camera platforms, recognition and classification of object classes, human motion analysis, and activity understanding. Other major technical issues include, but not limited to

- Review of recent advances in visual surveillance
- Distributed multi-sensor visual surveillance systems
- Multicamera cooperative tracking
- Surveillance robots
- Multisensor image fusion
- Computational intelligence
- Long-range visual surveillance
- Imaging beyond the visible spectrum

To explore possible topics, feel free to contact the guest editors. Accepted papers will be published in the special issue of *International Journal of Control, Automation, and Systems* (indexed as SCIE), which is scheduled in October 2010. All manuscripts will go through regular review processes of the journal.

### **Important Dates:**

Submission of Manuscripts:	February 28, 2010
Notification of Acceptance:	June 30, 2010
Submission of Final Papers:	July 31, 2010
Publication:	October 2010

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### **Submission Process:**

All submissions must include a title page containing the title of the paper, full names and affiliations of all authors, an abstract, and keywords, followed by the main text (single-column, double-space format), references, a list of figures and tables. Complete postal address, e-mail address, phone numbers of the corresponding author should be provided. The manuscripts should be submitted in an electronic form (in PDF and Microsoft Word format) as an e-mail attachment to the Special Issue Editor:

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