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Call for Papers

Special Issue on Recent Advances on Analysis and Processing for Distributed Video Systems

Distributed video systems are of increasing importance in many applications, including surveillance, healthcare, entertainment, and unmanned area monitoring. With the rapid growth in the demand for ubiquitous sensing and service, great challenges have been raised for analyzing, transmitting, processing, and displaying massive video data from distributed sources. As such, there is an evolution from the static centric-based processing to dynamic collaborative computing and processing among distributed video processing nodes. This evolution, in turn, is issuing new challenges. For example: How to efficiently allocate the resources among distributed video processing nodes to achieve optimized performance? How to effectively identify and locate objects that are moving across multiple video sensors? How to estimate the overall statistics based on the collaborative analysis from distributed video processing nodes? How to visualize the distributed massive data so that they are convenient and informative for a human operator? These new challenges require us to extend existing approaches and explore new techniques. This special issue aims to bring together leading researchers and practitioners from around the world to present their latest research results and explore future directions in distributed video systems.

Scope

The scope of this special issue is to cover all aspects related to the analysis and processing of distributed video systems. Topics of interests include, but are not limited to:

- Event Detection and Analysis for Distributed Video Systems
- Object Tracking and Detection over Multiple Cameras
- Resource Allocation and Scheduling for Distributed Systems
- Efficient Video Storage and Management
- Multi-view Video Coding and Streaming
- Efficient Visualization and Display of Massive Videos
- Multi-view Collaborative Analysis and Computing
- Efficient Video Retrieval over Massive Data
- Privacy and Protection for Video Surveillance Systems
- Parallel Video Distribution Architectures
- Video Super-resolution and Enhancement
- Segmentation and Classification for Distributed Video Systems

Information for Authors

Authors should prepare their manuscript according to the Guide for Authors available from the online submission page of the 'Journal of Visual Communication and Image Representation' at http://ees.elsevier.com/jvci/. When submitting via this page, please select "**DistributedVideoSystems**" as the Article Type. Prospective authors should submit high quality, original manuscripts that have not appeared, nor are under consideration, in any other journals. All submissions will be peer reviewed following the JVCI reviewing procedures.

Important Dates

Manuscript submission: 30, May 2011
First-round decision: 30, August 2011
Revised manuscripts due: 31, October 2011
Acceptance notification: 31, December 2011
Final manuscripts due: 31, January 2012
Expected publication date: Summer 2012

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doi:10.1016/S1047-3203(10)00162-8