

*Elsevier Journal of  
Computer Vision and Image Understanding (CVIU)*

*Special issue on*

***Multi-camera and Multi-modal Sensor Fusion***

**Call for papers**

Advances in sensing technologies as well as the increasing availability of computational power and efficient bandwidth usage methods are favouring the emergence of applications based on distributed systems combining multiple cameras and other sensing modalities. These applications include audiovisual scene analysis, immersive human-computer interfaces, occupancy sensing and event detection for smart environment applications, automated collection, summarization and distribution of multi-sensor data, and enriched personal communication, just to mention a few. This special issue proposes to address the principal technical challenges in vision processing when the video modality is also supported by other inputs such as audio, speech, context, depth sensors, and/or other cameras. Topics of interest to the special issue include:

- Multi-camera system algorithms and applications
- Multi-modal systems and data fusion methods
- Distributed sensing and processing methods for human-centric applications
- Distributed multi-modal scene analysis and event interpretation
- Automated annotation and summarization of multi-view video
- Automated creation of audiovisual reports (from meetings, lectures, sport events, etc.)
- Multi-modal gesture recognition
- Multi-modal human-computer interfaces
- Data processing and fusion in multi-modal embedded systems
- Context-awareness and behaviour modelling
- Performance evaluation metrics
- Applications in distributed surveillance, smart rooms, virtual reality, and e-health

**Paper submission and schedule**

- Papers must be submitted at CVIU journal's web server (<http://ees.elsevier.com/cviu/default.asp>) by selecting the special issue option: "Multi-camera and Multi-modal Sensor Fusion".
- Submission guidelines for authors are available at:  
[http://www.elsevier.com/wps/find/journaldescription.cws\\_home/622809/authorinstructions](http://www.elsevier.com/wps/find/journaldescription.cws_home/622809/authorinstructions)
- Only papers meeting the scope of the special issue will be considered for review. If in doubt concerning the relevance of a proposed paper, the authors are encouraged to contact the guest editors prior to paper submission.
- The provisional schedule for the issue is:

- Paper submission deadline:	November 30, 2008
- First notification:	March 30, 2009
- Revised manuscripts due:	May 30, 2009
- Notification of final decision:	July 15, 2009
- Camera-ready manuscript:	July 30, 2009
- Publication of the special issue:	4th Quarter 2009

**Guest editors**

Andrea Cavallaro, *Queen Mary, University of London, UK*  
Hamid Aghajan, *Stanford University, USA*

[[andrea.cavallaro AT elec.qmul.ac.uk](mailto:andrea.cavallaro AT elec.qmul.ac.uk)]  
[[hamid AT wsni.stanford.edu](mailto:hamid AT wsni.stanford.edu)]