

Call for Papers

IEEE Journal on Emerging and Selected Topics in Circuits and Systems Special Issue on Computational and Smart Cameras

Scope and Purpose

The IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS) seeks original contributions for an issue on computational and smart cameras, scheduled to appear in June 2013.

Technological developments in imaging, computation, and embedded systems have created an opportunity for multi-disciplinary approaches to techniques and applications related to cameras. They are no longer merely devices to record a particular scene in a 2D picture; instead, with novel designs of the imaging systems, together with powerful computation and interconnections among multiple cameras, many new applications in photography, vision, and sensing are now possible.

Topics of Interest

Topics of interest for this issue include, but are not limited to:

- Circuits and systems for camera designs and architectures
- Image sensing and processing for smart cameras
- Computational cameras
- Computational illumination, optics, and electronic design
- High-performance imaging and in-camera image processing
- Embedded vision programming and parallel systems
- Wireless and mobile camera networks
- Camera arrays, and cameras based on cellular networks
- Distributed capture and vision processing algorithms
- 3D scene capture, storage, and analysis
- Multi-view vision algorithms and applications
- Image processing with computational and energy constraints

Guest Editors

Edmund Lam, University of Hong Kong : elam@ieee.org

Hamid Aghajan, Stanford University : aghajan@stanford.edu

Andrea Prati, Università Iuav di Venezia : aprati@iuav.it

Faisal Qureshi, University of Ontario Institute of Technology : Faisal.Qureshi@uoit.ca

Vincent Tam, University of Hong Kong : vtam@eee.hku.hk

Submission Procedure and Publication Timeline

Authors are encouraged to submit high-quality contributions following the instructions provided on the JETCAS website:

<http://jetcas.polito.it>

- Manuscript submissions due January 31, 2013
- First round of reviews completed February 21, 2013
- Revised manuscripts due March 4, 2013
- Second round of reviews completed March 25, 2013
- Final manuscripts due April 1, 2013 (**hard deadline set by the journal, non-negotiable**)
- JETCAS issue June 2013