

# GlobalSIP 2013

IEEE Global Conference on Signal and Information Processing

## Controlled Sensing For Inference: Applications, Theory and Algorithms

[www.ieeeglobalsip.org/sym/13/CSI](http://www.ieeeglobalsip.org/sym/13/CSI)

December 3-5, 2013 • Austin, Texas, U.S.A.

### Call for Papers

#### Organizing Committee

George Atia  
*University of Central Florida*

Venkatesh Saligrama  
*Boston University*

Venugopal Veeravalli  
*University of Illinois at  
Urbana-Champaign*

The GlobalSIP symposium on Controlled Sensing for Inference, to be held in Austin Texas in December 2013, invites research papers from scientists, engineers, and research Scholars. The IEEE Global Conference on Signal and Information Processing (GlobalSIP), which hosts co-located symposia, is a new flagship IEEE Signal Processing Society conference that will focus on signal and information processing and up-and-coming signal processing themes.

The symposium welcomes papers across several disciplines in information sciences around the common theme of Controlled Sensing for Inference, which is concerned with the control and management of different sensing assets in information gathering systems towards achieving a particular inference task. The task of developing a new science for controlled sensing is a daunting task and is only possible through the contributions and the innovations across the different disciplines of information sciences, including signal processing, information theory, network computation, control, detection and estimation and algorithms, and through the complementary roles of basic and applied research. The goal of this symposium is to bring together key researchers from different research communities to focus on the theme of controlled sensing and sensor management for inference. This symposium is a one-day symposium that will consist of 3-mini plenary talks given by reputed researchers in the field, and 2 sessions for both contributed and invited technical papers spanning a broad range of topics in basic and applied research. All technical presentations will be in the poster format. Each poster session will be 1.5-2 hours in duration, and will consist of high quality invited and contributed papers. Accepted papers will appear in the proceedings of GlobalSIP-Symposium on Controlled Sensing for Inference: Applications, Theory and Algorithms.

Topics of interest include:

- Sensor Management for tracking
- Sensor Management for detection, estimation, and classification
- Management of heterogeneous sensing resources
- Data-driven and non-parametric inference methods
- Information collection, processing and fusion
- Fundamental limits of sensing systems
- Applications of controlled sensing to infrastructure monitoring
- Controlled sensing for medical imaging
- Radar and surveillance applications
- Controlled sensing in social networks

#### Paper Submission

Paper submission will be online only through the GlobalSIP 2013 website. Papers should be in IEEE two-column format and no longer than 4 pages.

#### Symposia Website

Full details, new updates, and submission instructions can be found on the symposia website, <http://www.ieeeglobalsip.org/sym/13/CSI>

#### Important Dates

Paper Submission Deadline	June 15, 2013
Review Results Announce	July 30, 2013
Camera-Ready Papers Due	September 7, 2013



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