

# GlobalSIP 2013

IEEE Global Conference on Signal and Information Processing

## New Sensing and Statistical Inference Methods

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

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

### Call for Papers

We are living in interesting times. Our societies have begun to embrace the transition to a digital world in which computation and data will fuel economic developments, social changes, scientific discoveries, and technological innovations. Indeed, businesses, governments, scientists, engineers, medical professionals, etc., are increasingly relying on computation- and data-enabled methods for achieving their goals. Still, a complete transition to a world in which computation and data facilitate decision making for social and economic uplifting, and improve overall life quality requires meeting huge challenges. The Symposium on New Sensing and Statistical Inference Methods is meant to explore solutions to two of these challenges, namely, sensing and statistical inference. Both these challenges are rather grand in nature and successfully addressing them requires a concerted effort by practitioners and theoreticians working at the intersection of signal processing, statistics, harmonic analysis, machine learning and systems engineering. The motivation for this symposium arises from the need to provide a common platform for the exchange of ideas among a diverse group of researchers, with a common focus on sensing and statistical inference problems of the future.

Topics of interest include:

- Active learning and adaptive sampling
- Compressive-sensing-inspired systems
- Computational imaging systems
- Computational methods for “big data”
- Data-adaptive representation theory/Dictionary learning
- Distributed statistics/machine learning
- High-dimensional statistical inference
- Manifold-based signal processing
- New sensing paradigms in medical imaging
- Information processing in social networks
- Robust statistical inference
- Sensing/inference for biological processes
- Sensing/processing of hyperspectral data
- Statistical inference in graphical models

#### 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/NSSIM>

#### 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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