

# GlobalSIP 2013

IEEE Global Conference on Signal and Information Processing

## Millimeter Wave Imaging and Communications

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

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

### Call for Papers

The emergence of low cost high performance CMOS technology has opened a new perspective in the development of millimeter wave (mmWave) systems. With availability of ultra-wide bandwidths, emerging millimeter wave technology has the potential to impact our lives with applications ranging from imaging, sensing, automotive radars, security, biology, short-range, and ultra-high speed wireless data transmission. For example, the wavelength of mmWave frequencies is small enough to achieve a useful resolution for many imaging applications. Their shorter wavelength allows for greatly reduced equipment and antenna size. There are certainly many opportunities and open problems in mmWave systems for researchers. The signal processing community is uniquely positioned to benefit from deeper understanding of mmWave circuits and systems. The objective of this symposium is to bring academic and industrial researchers from both mmWave silicon based circuit and signal processing communities together in an effort to identify and discuss the major technical challenges and recent results in millimeter wave systems. Researchers and practitioners working in this area are expected to take this opportunity to discuss and express their views on the current trends, challenges, and state of the art solutions addressing various issues in mmWave systems.

Topics of interest include:

- Millimeter Wave Coherent Imaging and Signal Processing
- Holographic Millimeter-wave Imaging, Automotive Radars, and Remote Sensing
- Compressive Sensing in Radars and Imaging
- MIMO Radars
- Millimeter Phased Arrays
- Quasi-Optical Techniques
- THz Imaging
- Millimeter Wave Communication Systems and Applications
- Signal Processing Techniques for Impairments in Millimeter Wave Systems

#### 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/MMWIS>

#### Organizing Committee

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#### 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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