

CALL FOR PARTICIPATION

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Arizona State University (ASU), Tempe, AZ

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Raytheon Missile Systems, Tucson, AZ

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U.S. Air Force Research Laboratory
Hanscom AFB, MA

Local Arrangements

Cynthia Moayedpardazi, ASU

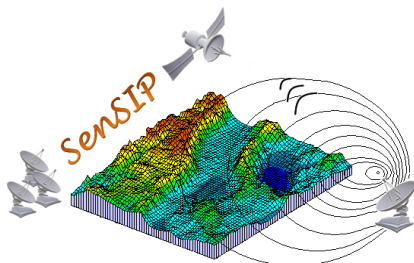


Sedona, Arizona

Workshop Venue

Hilton Sedona Resort & Spa
90 Ridge Trail Dr.
Sedona, AZ 86351.
(877) 273-3762

For workshop rate, please call the above toll free number by April 18 and mention *SenSIP*.



<http://www.asu.edu/sensip/>



Sedona 2008 **SENSIP**

Sensor, Signal and Information Processing Workshop (*SenSIP 2008*)

May 11-14, 2008
Sedona, Arizona, USA

The *SenSIP* workshop will feature a keynote presentation by

★ **Dr. James Truchard, CEO, National Instruments**

and plenary presentations by:

★ **John Cozzens, National Science Foundation**

★ **Richard Baraniuk, Rice University**

★ **Robert Bonneau, U.S. Air Force Office of Scientific Research**

★ **P. R. Kumar, University of Illinois, Urbana-Champaign**

★ **Edward Russell Dougherty, Texas A&M University**

★ **Michael Wicks, U.S. Air Force Research Laboratory**

The first Workshop on Sensor, Signal and Information Processing (*SenSIP*) will be held at the Hilton Sedona Resort and Spa in Sedona, Arizona from May 11-14, 2008. The scope of the *SenSIP* workshop includes mathematical foundations, algorithms and implementation techniques relevant to signal processing in sensing applications. Accepted papers will be archived and published in the *SenSIP* Workshop conference proceedings. Selected papers will be published in a special issue of ***Digital Signal Processing: A Review Journal***, expected to be published in December 2009. The following track areas will be featured in this year's program:

Agile and Adaptive Sensing

- * Adaptive waveform design and diversity
- * Array processing, radar and sonar
- * Adaptive clutter mitigation
- * Adaptive detection and tracking
- * Multi-modal adaptive sensor management
- * Adaptive structural sensing

Biosensing and Processing

- * Medical imaging
- * Biological signal processing
- * Biomedical signal processing
- * Bio-chemical terrorism countermeasures
- * Bioinformatics and signal processing
- * Environmental and agricultural biosensing

Homeland Security and Defense Applications

- * Information forensics
- * Biometrics
- * Cryptography
- * Security in sensor networks

Wireless Sensor Networks

- * Distributed source coding
- * *Ad hoc* networks
- * Distributed detection, estimation and sensing
- * Routing algorithms
- * Cross layer design
- * Cooperative communications

Compressive Sensing

- * Compressed imaging
- * Efficient signal recovery
- * Bayesian methods, statistical processing and random sampling
- * Multi-sensor and distributed compressed sensing
- * Source coding and information theory
- * Compressed sensing in practice

Industry Applications

- * Automotive, aerospace and flight industry
- * Acoustic, speech and multimedia technologies
- * Sensing in arts and media
- * Medical industry
- * Seismology
- * Communications
- * Tomorrow's industries
- * Education technologies for sensors and DSP

Please direct inquiries to sensip2008@asu.edu.

Sponsored in part by the Phoenix Chapter of the IEEE Signal Processing and Communications Societies and by the ASU *SenSIP* Center.