

December 3-6, 2012  
Hollywood, California

# APSIPA ASC 2012

## Call for Papers

Welcome to the APSIPA Annual Summit and Conference 2012 located in the heart of the American motion picture industry, Hollywood, California. Hollywood is home to the stars and to some of the most recognizable attractions in the world. Walk among the "stars" on the Hollywood Walk of Fame and bring your camera to capture the world famous Hollywood sign. Nearby you will find famous Hollywood attractions such as hand/footprints in the cement courtyard of the Chinese Theatre, the Kodak Theatre, Madame Tussaud's and more. Hooray for Hollywood!

APSIPA ASC 2012 will be the fourth annual conference organized by Asia-Pacific Signal and Information Processing Association (APSIPA). Founded in 2009, APSIPA aims to promote research and education on signal processing, information technology and communications. The annual conference was previously held in Japan (2009), Singapore (2010) and China (2011). The field of interest of APSIPA concerns all aspects of signals and information including processing, recognition, classification, communications, networking, computing, system design, security, implementation, and technology with applications to scientific, engineering, and social areas. **Accepted papers in regular sessions and accepted papers in special sessions will be published in APSIPA ASC 2012 proceedings which will be indexed by EI Compendex.**

The regular technical program tracks and topics of interest include (but not limited to):

### 1 Biomedical Signal Processing and Systems (BioSPS)

- 1.1 Biomedical Imaging
- 1.2 Modeling and Processing of Physiological Signals (EKG, MEG, EKG, EMG, etc)
- 1.3 Biologically-inspired Signal Processing
- 1.4 Medical Informatics and Healthcare Systems
- 1.5 Genomic and Proteomic Signal Processing

### 2 Signal Processing Systems: Design and Implementation (SPS)

- 2.1 Nanoelectronics and Gigascale Systems
- 2.2 VLSI Systems and Applications
- 2.3 Embedded Systems
- 2.4 Video Processing and Coding
- 2.5 Signal Processing Systems for Data Communication

### 3 Image, Video, and Multimedia (IVM)

- 3.1 Image/video Coding
- 3.2 3D image/video Processing
- 3.3 Image/video Segmentation and Recognition
- 3.4 Multimedia Indexing, Search and Retrieval
- 3.5 Image/video Forensics, Security and Human Biometrics
- 3.6 Graphics and Animation
- 3.7 Multimedia Systems and Applications

### 4 Speech, Language, and Audio (SLA)

- 4.1 Speech Processing: Analysis, Coding, Synthesis, Recognition and Understanding
- 4.2 Natural Language Processing: Translation, Information Retrieval, Dialogue
- 4.3 Audio Processing: Coding, Source Separation, Echo Cancellation, Noise Suppression
- 4.4 Music Processing

### 5 Signal and Information Processing Theory and Methods (SIPTM)

- 5.1 Signal Representation, Transforms and Fast Algorithms
- 5.2 Time Frequency and Time Scale Signal Analysis
- 5.3 Digital Filters and Filter Banks
- 5.4 DSP Architecture
- 5.5 Statistical Signal Processing
- 5.6 Adaptive Systems and Active Noise Control
- 5.7 Sparse Signal Processing
- 5.8 Signal Processing for Communications
- 5.9 Signal Processing for Energy Systems
- 5.10 Signal Processing for Emerging Applications

### 6 Wireless Communications and Networking (WCN)

- 6.1 Wireless Communications: Physical Layer
- 6.2 Wireless Communications and Networking: Ad-hoc and Sensor Networks, MAC, Wireless Routing and Cross-layer Design
- 6.3 Wireless Networking: Access Network and Core Network
- 6.4 Security and Cryptography
- 6.5 Devices and Hardware

## Submission of Papers

Prospective authors are invited to submit either full papers, up to 10 pages in length, or short papers up to 4 pages in length, where full papers will be for the single-track oral presentation and short papers will be mostly for poster presentation. The conference proceedings of the main conference will be published, available and maintained at the APSIPA website. **The proceedings will be indexed by EI Compendex.**



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## Organizer

University of Southern California

## Academic Sponsor

Asia-Pacific Signal and Information Processing Association (APSIPA)

Important Dates

Submission of Proposals for Special Sessions, Forum, Panel & Tutorial Sessions	<b>May 10, 2012</b>
Submission of Full and Short Papers	<b>June 10, 2012</b>
Submission of Papers in Special Sessions	<b>July 10, 2012</b>
Notification of Papers Acceptance	<b>Aug. 30, 2012</b>
Submission of Camera Ready Papers	<b>Sep. 30, 2012</b>
Author Registration Deadline	<b>Sep. 30, 2012</b>
Tutorial Session Date	<b>Dec. 3, 2012</b>
Summit and Conference Dates	<b>Dec. 4-6, 2012</b>

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