

# DSP 2015

## 2015 IEEE International Conference on Digital Signal Processing (DSP)

21-24 July 2015, Singapore

### Honorary Chair

CONSTANTINIDES, Anthony George,  
Imperial College, London, UK

### General Co-Chairs

CHAU, Lap Pui  
Nanyang Technological Uni., Singapore  
LIM, Yong Ching  
Nanyang Technological Uni., Singapore  
MANDIC, Danilo  
Imperial College, UK  
SIU, Wan Chi  
Hong Kong Polytechnic Uni., HK  
TAN, Tieniu  
Chinese Academy of Sciences, PRC

### Constantinides Track Chair

SARAMÄKI, Tapio  
Tampere Uni. of Technology, Finland

### Cherry Track Chair

DINIZ, Paulo Sergio Ramirez  
Uni. Federal do Rio de Janeiro, Brazil

### Gabor Track Chair

CHAKRABORTY, Mrityunjoy  
Indian Institute of Tech. Kharagpur, India

### Technical Program Co-Chairs

CHAMBERS, Jonathon  
Loughborough University, UK  
KWAN, Hon Keung  
University of Windsor, Canada  
LEUNG, King K  
Imperial College, UK  
LIAN, Yong  
National Uni. of Singapore, Singapore  
LUN, Pak-Kong  
Hong Kong Polytechnic Uni., HK  
YU, Yajun  
Nanyang Technological Uni., Singapore

### Europe Liaison Chair

GABBOUJ, Moncef  
Tampere Uni. of Technology, Finland

### North America Liaison Chair

ZHU, Wei-Ping  
Concordia University, Canada

### South America Liaison Chair

DA SILVA, Eduardo A. B.  
Uni. Federal do Rio de Janeiro, Brazil

### Publicity Co-Chairs

KOT, Alex Chichung  
Nanyang Technological Uni., Singapore  
LIN, Zhiping  
Nanyang Technological Uni., Singapore

### Special session Chair

LEE, Jun Wei  
Temasek Laboratories - NTU, Singapore

### Publication Co-Chairs

HA, Yajun  
I2R, A\*STAR, Singapore  
ZHOU, Jun  
IME, A\*STAR, Singapore

### Finance Chair

WANG, Yi  
I2R, A\*STAR, Singapore

### Local Arrangement Co-Chairs

CHONG, Kwen Siong  
Nanyang Technological Uni., Singapore  
GWEE, Bah Hwee  
Nanyang Technological Uni., Singapore  
MA, Fan-Yung  
Infineon Technologies, Singapore

### Local Sponsorship Chair

FOO, Say Wei,  
Nanyang Technological Uni., Singapore

### Electronic Media Chair

KHONG, Andy W. H.  
Nanyang Technological Uni., Singapore

2015 IEEE International Conference on Digital Signal Processing (DSP), initiated by Imperial College, London, and organized by IEEE Circuits and Systems Society Singapore Chapter, will be held in July 21-24, 2015 in Singapore. It is the longest in existence Conference in the area of DSP and belongs to a series of events, which commenced in London in 1968 and continued to Florence, Nicosia, Limassol, Santorini, Cardiff, Corfu, etc. The latest meeting took place in Hong Kong in August 2014.

DSP 2015 addresses the theory and application of filtering, coding, transmitting, estimating, detecting, analysing, recognising, synthesising, recording, and reproducing signals by means of digital devices or techniques. The term "signal" includes audio, video, speech, image, communication, geophysical, sonar, radar, medical, musical, and other signals.

## Indicative topics of interest:

### Biomedical Signal Processing

- Biomedical Signal and Image Processing
- Brain-Computer Interface
- Genomic Signal Processing
- Signal Processing in Genomics and Proteomics

### Digital and Multirate Signal Processing

- Adaptive Signal Processing
- Digital and Multirate Signal Processing
- Digital Filter Design and Implementation
- Multidimensional Filters and Transforms
- Multiresolution Signal Processing
- Multiway Signal Processing
- Theory and Applications of Transforms
- Time-Frequency Analysis and Representation
- Statistical Signal Processing

### Sensor Array and Multichannel Processing

- Array Signal Processing
- Signal Processing for Smart Sensors and Systems
- Compressive Sensing

### Signal Processing for Communications

- Geophysical/Radar/Sonar Signal Processing
- MIMO Signal Processing

### Signal Processing for Audio/Image/Video

- Audio/Speech/Music Processing & Coding
- Digital Photography
- HDR Imaging
- Image and Multidimensional Signal Processing
- Image/Video Indexing, Search and Retrieval
- Image/Video Compression and Coding Standards
- Image/Video Content Analysis
- Image/Video Processing Techniques
- 3D Image Processing and Applications
- Mobile Imaging and Image Quality
- Real-Time Signal/Image/Video Processing
- Video Surveillance and Transportation Imaging
- Digital Watermarking and Data Hiding

### Other Areas and Applications

- Big Data
- Cognitive Signal Processing
- DSP Education
- Nonlinear Signals and Systems
- Information Forensics and Security
- Internet of Things (IoT)
- Social Signal Processing & Affective Computing
- Signal and System Modelling
- Signal Processing of Financial Data
- VLSI Architectures and Implementations for DSP

The language of the Conference is English. Prospective authors are invited to electronically submit the full camera-ready paper. The paper must not exceed four (4) pages plus one (1) page references and should be written in English. Authors should indicate one or more of the above listed categories that best describe the topic of the paper, as well as their preference (if any) regarding lecture or poster sessions. Lecture and poster sessions will be treated equally in terms of the review process. Submitted papers will be peer-reviewed by experts in the field. **All accepted and presented papers will be included in the Conference Proceedings and will be available on IEEE Xplore and EI Compendex. There will be best paper awards.**

In addition to the technical program, a social program will be offered to the participants and their companions. It will provide an opportunity to meet colleagues and friends against a backdrop of outstanding natural beauty and rich cultural heritage in one of the best known international tourist destinations. For more information, please visit [www.dsp2015.org](http://www.dsp2015.org).

### Important Deadlines

Submission of Special Session Proposal	:	Feb 9, 2015
<b>Submission of full papers</b>	:	<b>Feb 16, 2015 March 2, 2015</b>
Submission of Special Session papers	:	<b>March 2, 2015 March 16, 2015</b>
<b>Notification of acceptance</b>	:	<b>Before April 13, 2015*</b>
Submission of final papers	:	May 4, 2015
Author Registration	:	May 4, 2015
Conference	:	July 21-24, 2015

\*Papers will be sent for review soon after submission. A decision will be made once it is possible to do so. Authors who submit early may receive decisions early.