

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, Mrityunjay
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.

Important Deadlines

| | | |
|--|---|-------------------------------------|
| Submission of Special Session Proposal | : | Feb 9, 2015 |
| Submission of full papers | : | Feb 16, 2015 March 2, 2015 |
| Submission of Special Session papers | : | March 2, 2015 March 16, 2015 |
| Notification of acceptance | : | Before April 13, 2015* |
| 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.