

# International Workshop on Signal Processing for Optics, Communication and Circuit Design

in conjunction with The 12th KIPS International Conference on Ubiquitous Information  
Technologies and Applications (CUTE 2017), Dec 18-20, 2017, Taichung, Taiwan.

<http://www.cute-conference.org/2017/>

Considering recent advances and emergence in communication technology, signal processing method, and integrated circuit design, a comprehensive understanding to the essence of these realms, and their derivatives, becomes a challenging issue and a key to innovate future computing, communication and control industry. The purpose of this workshop is also to provide a forum for update and review of a wide field of optics and optics disciplines ranging from optics to system engineering and application. This workshop is expected to bring together researchers and practitioners from both academia as well as industry to meet and share cutting-edge development in the field. Significant contributions in all major fields of the communication, signal processing, integrated circuit design, optics, optical signal processing, optical, waveguides and communications, optical design /testing, display technology and integrated system design in theoretical and practical aspects in all major are highly welcomed.

**Topics of Interests:** Authors are solicited to contribute to this conference by submitting articles that illustrate research results, projects, surveying works, industrial experiences, and creative ideas that describe significant advances in the following areas, but are not limited to:

- Interference characterization
- Cognitive radio, ultra-wideband
- Multi-hop and cooperative communications
- Modulation, coding, diversity
- Equalization, synchronization, channel estimation
- Space-time coding, MIMO, adaptive antennas
- OFDM, CDMA, spread spectrum
- Channel modeling and characterization
- Interference cancellation and multiuser detection
- Iterative techniques
- Signal processing for communications
- Propagation models and experiment for mobile communications
- Emerging wireless/mobile applications
- Wireless telemedicine and e-health services
- Cognitive radio and sensor-based applications
- Content distribution in wireless home environment
- Wireless emergency and security systems
- Wireless MAC protocols: design and analysis
- B3G/4G/5G Systems
- Circuits and systems for communications
- VLSI systems and applications
- Analog and digital integrated circuit designs
- Nanophotonic Materials and Devices
- Optical Waveguides and Communications
- Quantum Electronics
- Optical Information Processing and Holography
- Optical Design and Testing
- Biophotonics
- Display Technology
- Solid State Lighting
- Photovoltaic Technology
- Thin Film Technology and Optical Engineering
- Adaptive Optics
- Optometry
- Fiber Optics Technology Computational Optical Sensing and Imaging
- Optical Instrumentation
- Applied Industrial Optics
- Nonlinear Optics
- Semiconductor Lasers and LEDs
- Laser Microscopy
- Laser Spectroscopy
- Fiber Lasers and Applications
- Waveguide Lasers
- Others

## Conference Venue:

Providence University  
Tempus Hotel

## Workshop Chairs:

Hsuan-Fu Wang (Chun Chou University of Science and Technology, Taiwan)  
Ching-Huang Lin (National Yunlin University of Science and Technology, Taiwan)

## Workshop Co-Chairs:

Chin-Pan Hwang (National Changhua University of Education, Taiwan)  
Po-Hui Yang (National Yunlin University of Science and Technology, Taiwan)  
Der-Chin Chen (Feng Chia University, Taiwan)  
Mu-Song Chen (Da-Yeh University, Taiwan)

## Committees:

Tzong-Dar Wu (National Taiwan Ocean University, Taiwan)  
Jiun-Ting Chen (Shih Hsin University, Taiwan)

## Important dates:

- Paper Submission Due: Aug. 4, 2017 Extended
- Author Notification: Aug. 18, 2017
- Camera Ready Due: Aug. 30, 2017
- Conference Dates: Dec. 18-20, 2017

## Paper Submission and Publication:

All accepted papers will be included in the conference proceedings published by Lecture Notes in Electrical Engineering (LNEE) - Springer (indexed by EI and SCOPUS). Authors should submit a paper based on page limitation (5~6 pages) including all figures, tables, and references. If you want to submit more than page limitation, you can add up to 2 extra pages(max 8 pages) with the additional payment (100 USD per page). Please visit the submission instruction page for details: <http://www.cute-conference.org/2017/>

