The 3rd International Conference for Electronic Design (ICED 2016)



Wednesday, 10 August 2016 - Friday, 12 August 2016
Phuket, Thailand

Conference Tracks

1. Artificial Intelligent

Al and Creativity
 Ambient Intelligence
 Bayesian Networks
 Case-Based Reasoning
 Cognitive Systems
 Constraint Satisfaction
 Data Mining
 Data Science
 Deep Learning
 e-Discovery
 Evolutionary Computing
 Explainable Artificial Intelligence
 Fuzzy Systems
 Machine Learning
 Model-Based Reasoning
 Natural Language Processing
 Neural Networks
 Ontologies

2. Signal & Image processing

• Applied Digital Signal Processing • Coding and Transmission • Signal Processing in Communications • Statistics and Statistical Signal Processing • Emerging Technologies in Digital Signal Processing • Image & Signal Processing Applications • Image Acquisition and Display • Image and Video Processing & Analysis • Image Formation • Image Scanning, Display and Printing • Storage and Retrieval • Biomedical signal and image analysis • Real-time signal and image processing algorithms and architectures.

3. Internet of Things

• Software-defined networks for IoTs • Architecture, models, and tools for IoTs • Routing protocol,data dissemination, and offloading algorithms design for IoTs • Security, privacy, and trust for IoTs • Big data mining and analytics for IoTs • Application of cloud computing and fog computing in IoTs • Machine learning models and methods for IoTs • IoTs applications and technologies for smart worlds and smart cities • Green computing and sustainable computing for IoTs • New applications on IoTs • IoT on eHealth and Ambient Assisted Living • IoT on energy management • IoT in industry.

4. Embedded System & SoC

Novel Architectures for Accelerators in High Performance Embedded Systems ●
 Application-specific and Domain specific Embedded Heterogeneous ● Multicore Systems ●
 Embedded Reconfigurable Processors ● Software tools, Compilation techniques and optimizations, and Code generation for Reconfigurable Architectures ● Architecture synthesis from Functional Languages Descriptions ● Virtualization and Energy-aware Secure, Reliable, and High ●
 Availability Multi-core Architectures ● Embedded Parallel Systems and Multiprocessor Systems-On-Chip ● Application-level Resource Management of Multi-core Architectures; ● Memory Systems and Management for big data.

5. Antenna & Microwave

Antenna systems and architectures
 Antenna theory
 Design and technology for array antennas
 Analysis of array antennas
 Antenna interactions and couplings
 Mm-wave antennas
 Sub mm-wave, THz and nano-optical antennas
 Multiband and multifunctional antennas
 Wideband and UWB antennas
 Electrically Small Antennas
 Wearable and implantable antennas
 Lens antennas
 Reflector, feed systems, and components.

6. Microl nanoelectronic

Design and test of high complexity systems integration
 SoC, MPSoC, NoC, SIP, and NIP design and test
 Process technologies, CMOS, BJT, BiCMOS, GaAs
 3-D integration design and analysis
 Emerging device technologies and circuits,
 Microelectronics processing and materials
 Semiconductor processing
 Modern electronics materials
 Solid-state electronics
 Quantum electronics
 Thin solid films
 Nanoprocessing, nanotechnology and nanofabrication.

7. Optic & Photonics

Laser Systems ● Optics & Lasers in Medicine ● Optoelectronics ● Optical Communications & Networking ● Advancements in Photonics ● Nano-Photonics & Bio-Photonics ● Quantum Science & Technology ● Technologies in Lasers, Optics & Photonics ● Applications & Trends in Optics & Photonics ● Fiber Laser Technology ● Optical Physics ● Optical Fiber ● Surface Enhanced Spectroscopy ● Medical & Bio-Optics.

8. Green Electronics

• Green Circuits & Systems • Advances in Green Electronics • Green Electronics Design & Manufacturing • Energy Harvesting • Solar Cell • Piezo Energy • Thermoelectric Generator • Low Power Systems • Embedded Audio & Video Processing • E-Health, Sensors & Homecare Services • Smart Grid • Smart Home Power Management • Intelligent Transport Systems • User Centric Networks • Flexible and Reconfigurable Systems.

9. Analog & Digital Design

VLSI Circuit Design ● Electronic Testing & Reliability ● Optoelectronic ● Integrated Circuit Design
 Switched Capacitor and Current Mode Circuits ● Time-to-Digital Converters (TDC) ● VLSI Arithmetic Circuits ● Voltage-to-Frequency Converters (VFC) ● Analog, digital, mixed-signal, power and RF ● Application-specific integrated circuit (ASIC) ● Fault Tolerant Circuits ● Frequency-to-Digital Converters (FDC) ● IC Sensors ● Low-Power Low-Voltage IC ● Microprocessors, Microcontrollers and DSPs ● Circuit & system theory and application ● Optical connectivity ● Electronic connectivity ● ADC, DAC ● Nonlinear Circuits.

10. Communication & big data

Models and algorithms of Big Data ● Architecture of Big Data ● Big Data Management ● Big Data Analysis and Processing ● Security and Privacy of Big Data ● Big Data in Smart Cities ● Search, Mining and Visualization of Big Data ● Technologies, Services and Application of Big Data ● Edge Computing ● Models, Simulations, Designs, and Paradigms of Cloud Computing ● Technologies, services and Applications of Cloud Computing ● Cooperative Communications, Distributed MIMO and Relaying ● Wireless / Radio Access Technologies ● Mobile Network Applications and Services ● Ad-hoc, Mesh, Machine-to-Machine and Sensor Networks ● Green Communications and Networks.