

Call For Papers

• Microelectronic Devices and Materials

- Silicon Integrated Circuits Technologies
- Advance Memories Technology (Flash, FeRAM, PCM, RRAM, MRAM etc.)
- Sensors and MEMS
- Organic Semiconductor Devices and Technologies
- Silicon Photonics
- Nano-Electronic and Nano-Photonic Devices
- Physics and Simulation of Optoelectronic Devices



<http://www.ncu.edu.tw/files/13-1128-37132.php>

• Renewable and Sustainable Energy Device and Materials

- Solid State Lighting and Displays
- Organic, Inorganic, and Hybrid Photovoltaics
- Nano-Electronic and Nano-Photonic Devices
- Energy Harvesting and Transferring Mechanisms
- Enabling Materials and Fabrication
- Transparent and Flexible Optoelectronics
- Renewable energy electronics



https://upload.wikimedia.org/wikipedia/commons/6/6e/Danshui_River_20051017.jpg

• Compound Semiconductor Materials, and Optoelectronic Devices

- Compound Semiconductor Materials, Devices and Technologies
- Optical Devices and Modules
- Optical Communication
- Fiber Optics and Fiber Sensing
- Optical Thin Films
- Laser Optics
- Nano-Electronic and Nano-Photonic Devices
- Physics and Simulation of Optoelectronic Devices



https://upload.wikimedia.org/wikipedia/commons/7/7b/Taipei_MRT_Jiantan_Station_and_rolling_stock_20070507.jpg

• Integrated Circuits and Systems

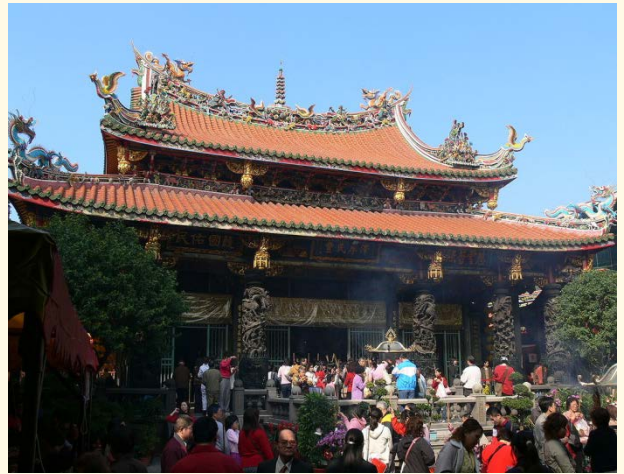
- Analog and Mixed-Signal Circuits and Systems
- Wireline and Wireless Communication Circuits and Systems
- Data Converters
- Power Management and Converters
- Sensors and Actuators
- Embedded Systems, Multi/Many Core Systems & Embedded Memory Technologies
- Reconfigurable and Programmable Circuits and Systems
- System Level Design Methodology and Tools
- Design for Testability and Manufacturability
- Design Verification

• Bioelectronics

- Processing/Devices/Circuits Modeling and Simulation
- Nano-Electronic and Nano-Photonic Devices
- Biomaterials
- Biomedical Devices
- MEMS & NEMS
- Sensors and Actuators
- Bioimages
- Bio Circuits and Systems



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http://upload.wikimedia.org/wikipedia/commons/thumb/7/7d/Longshan_Temple_Taiwan.JPG/220px-Longshan_Temple_Taiwan.JPG

• Sensors, Packaging Technologies, and Novel Applications in Science and Technology

- Sensor and Photodetectors
- Sensors and MEMS, Fiber Optics and Fiber Sensing
- Reliability, Packaging and Testing Technologies, Sensors and Photodetectors
- Package Technology
- Sensor Application in Science and Technology
- Sensors & Actuators
- Sensors Materials
- Sensors Technology

• RF and Microwave Circuits

- RF circuits
- Microwave Circuits
- Millimeter Wave Techniques
- Antenna
- Electromagnetic Waves
- EMC & EMI

- **Computer Communication and Multimedia Techniques**
 - Computer Networks
 - Software Defined Network (SDN)/ Network Function Virtualization (NFV)
 - Internet Applications
 - Communication Protocols
 - 5G Architecture and Communications
 - Multimedia Systems and Applications
 - Embedded Systems and Applications
 - Mobile Computing
 - Video/ Audio Signal Processing
 - Digital Signal Processing
 - AR/ VR technique
 - Computer Vision
 - Computer Graphics
- **IOT and AI Techniques**
 - Internet of Things
 - Internet of Vehicle
 - Artificial Intelligence
 - Machine Learning
 - Deep Learning
 - Cloud Computing
 - Big Data
- **Power and Control Engineering**
 - Power Systems
 - Power Electronics
 - Motor Control
 - Remote Monitoring and Control
 - Home Automation
 - Intelligent Transportation Systems
 - Automotive Electronics

Important Dates

- Paper submission: **2018/ 2/ 7**
- Author notification: 2018/ 3/ 1
- Registration: 2018/ 3/ 10
- Conference: 2018/ 5/ 7–5/ 9

<http://isne2018.ntut.edu.tw>

We look forward to your participation!