IEEE
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The 9th IEEE International Symposium on Next-Generation Electronics (ISNE 2020)

Changsha, China, July11-13, 2020

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
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• 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

• 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

• 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
- Bio images
- Bio Circuits and Systems

• 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: 2020/3/5
- Author notification: 2020/5/15
- Registration: 2020/6/15
- Conference: 2020/7/11 – 7/13
- Website: http://isne2020.org

We look forward to your participation!

Inquiry:
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