

# 2023 IEEE 16th International Conference on Electronic Measurement & Instruments

August 9th to 11th, 2023, Harbin China

*Measuring and Computing for Coming Digital Intelligent World*

## CALL FOR PAPERS

### General Chair

- Yu Peng

Harbin Institute of Technology

### Sponsor

- Chinese Instrument and Control Society (CIS)
- IEEE Beijing Section

### Organizers

- Measurement and Instrument Committee of CIS
- Harbin Institute of Technology

### Co-Organizers

- Chinese Journal of Scientific Instrument
- Journal of Electronic Measurement and Instrumentation
- Instrumentation
- IEEE Instrumentation and Measurement Society Harbin Chapter
- Harbin Engineering University
- Harbin University of Science and Technology
- The 49th Research Institute of China Electronics Technology Group Cooperation

### Important Dates

**Jan. 1th, 2023**

Paper Submission Open

**June 20th, 2023**

Paper Submission Deadline

**August 9th, 2023**

Proceedings Published

### Contact Information

**Website:** <http://www.icemi.cn>

**E-mail:** [icemi@vip.163.com](mailto:icemi@vip.163.com)



The International Conference on Electronic Measurement & Instruments is the world's premier conference dedicated to the electronic measurement and test of devices, boards and systems that is covering the complete cycle from design, verification, test, diagnosis, failure analysis and process of manufactory and products improvement, and is convened every two years. The purpose of the ICEMI is to provide excellent opportunities for scientists, engineers, and participants throughout the world to present the latest research results and to exchange their views or experience.

The 16th IEEE International Conference on Electronic Measurement & Instruments (ICEMI 2023) will be held on 9-11 August, 2023, in Harbin, China. Prospective authors are invited to submit original, unpublished papers describing recent work in any of the following areas.

## Topics For ICEMI 2023 include

### Measurement & Test Information Acquisition and Transmission

- Sensors and Non-electric Measurement
- Data Acquisition System
- Signal Transmission and Data Bus
- Communication and Networking in Test and Measurement
- Digital Audio & Video Test and Measurement
- Terahertz Test Technology
- EPC System Network

### Measurement & Test Information Processing

- Cyber Physical Fusion
- Signal Analysis and Processing
- Graphics & Image Processing
- Measurement System and Theory of Errors
- Machine Learning and Pattern Recognition
- Intelligent Optimization and Applications
- Measuring Cyber Data Mining
- Massive Data Management and Analysis
- Reconfigurable Computing

### Artificial Intelligence

- Robot Sensing Technology
- Multisensor Information Fusion
- Robot Perceptual Information Processing
- Biomimetic Perception and Environment Understanding

### Measurement & Test Instruments

- RF & Microwave Measurement Instrument
- Virtual Instrument Design and Applications
- Microprocessor and Embedded System
- VLSI Testing and Fault Diagnosis
- MEMS Instruments and Test System
- Built-In-Self Test (BIST)
- Optical Measurement System
- Scientific Experiment and Analytic Instrument
- Educational Instrument & Integration Laboratory

### Calibration and Traceability

- Quantum Standards to Fundamental Constants and the SI Units
- DC/Low Frequency Measurement Standards and Calibration Set
- High Frequency Measurement Standards and Calibration Set
- Calibration for Electromagnetic Properties of Materials
- Uncertainty Evaluation
- International or Regional Comparison

### Test Automation and Control

- Industrial Process Control
- Simulation and Experimental Technology
- System Health Prognostics and Management

### Measurement Software, System and Application

- Virtual Reality Simulation
- Standard and Specification of Auto-test System(ATS)
- Safety Monitoring Instruments and Systems
- Electro Magnetic Compatibility(EMC) Test System
- Aerospace & Avionics & Navigation Test System
- New Material Analysis & Test System
- New Energy & New Energy Automobile Test System
- Environmental Protection Test System

### Biomedical Engineering and Medical Instruments

- Biomedical Signal Processing
- Wearable Instruments
- Biomedical Micro Electro Mechanical Testing System
- Big Data and Health Information Computing

### Flexible Electronics and Instruments

- Design of Flexible Electronic Devices
- Flexible Electronic Manufacturing
- Flexible Sensing Technology

### Cross-discipline and Frontier

- Mobile Communication & Optical Communication Test
- Test of Broadband IP, Broadband IP and Big Data
- Meteorology, Hydrology, Ocean Observation and Instruments



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