



The Ninth International Conference on Instrumentation & Measurement, Computer, Communication and Control (IMCCC 2019) July 18-20, 2019, Harbin, China

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Instrumentation and Measurement is necessary for all the science and technology research. No measurement, no science. Measurement is the bridge between science and real world. Instrument (including sensors) is the tool of measurement and the source of information system. The technical support from computer, communication and control is necessary for the development of intelligent, virtual, automatic, systematic and networked modern instrumentation. However, computer, communication and control also depend on the development of modern instrumentation and measurement. Computer, Communication, Control, and Instrumentation & Measurement are interactive and promoted each other. The goal of this conference is to provide opportunities for researchers and engineers to contact with each other and academic exchange platform to facilitate discipline individual development and fusion of each other.

SCOPE: IMCCC 2019 is soliciting papers for the following (but not limited to) topics:

Track I: Instrument and Sensor

- Modeling and simulation
- Reliability Design and Analysis
- Dynamic local and reconfigurable FPGA technology
- Embedded systems and micro electromechanical systems technology and applications
- Ultra Wideband Data Acquisition Technology
- Real-time signal processing technology
- Bus Interface Technology
- Advanced sensors, perceptor, executing space remote sensor and RFID technology
- Precision optoelectronic instrument (Such as high resolution microscope, Telescope, camera)
- Voltage, power, frequency, impedance, shape and size, mechanical movement, thermophysical properties, nuclear radiation precision measurement and measurement.
- Aviation testing technology

Track II: Computer

- High-performance processors and intelligent instrument
- Parallel, array and network computing and data processing on satellite
- Pervasive computing and terminal equipment
- Fuzzy neural computing and applications
- Speech, image, video and 3D data processing
- Artificial intelligence and expert system based computer fault diagnosis
- Simulated testing of computer equipment and network connectivity discovery
- Software module design and system integration technology
- Software bug mining
- Information security and network protection

Track III: Communication

- Advanced encoding / decoding, modulation / demodulation and multiplexing, analysis of MIMO space channel, application in IM, and digital correction
- Novel access, switching, routing technology
- Private mobile radio (PMR)
- Corporate diversity radio (CDR)

- Software Defined Radio (SDR)
- Cognitive radio (CR)
- Wireless network fusion technology
- Analysis of wireless network protocol
- Data Communication Tester and Analyzer
- Fiber, Laser Communication and Testing
- High Speed Anti-jamming Space Communication
- Satellite networking communication

Track IV: Control

- Adaptive, robust, distributed and optimized control
- Self-control and automatic equipment
- Navigation, Guidance, Control and Instrumentation
- Flight vehicle control and Drone Technology
- Thermal and electrical process control and instrumentation
- Automotive Instrumentation and Control
- Automatic online test and diagnosis for control equipment

Track V: Advanced Science and Technology Acrossing Fields

- Artificial Intelligence (AI) Based Designing for Molecular Constructure
- AI Based Medical Image Diagnosis
- AI Based Affective Computing
- AI Based Blind Recognition to Image
- AI Based Added Negotiation Robot
- AI Based Clock Network for the Navigation Satellite
- Quantum Communication & Computing with the Error Correction
- Quantum Simulation & Measurement
- Material for Synthesized Crystal & Planted Capsule with Stem Cells
- Extracting & Assembling to the Subnanometer Particles
- Gene Coding & Driving
- Others

Paper Submission

All papers must be unpublished and should not be under simultaneous review for any other conferences and workshops. Papers in special sessions are also invited to provide forums for focused discussions on new topics and innovative applications of established approaches.

All papers should be submitted electronically via Online Paper Submission System, which is located at "<http://imccc.hit.edu.cn/>". The format of both the initial submissions and the final accepted papers must be in PDF. All papers will be peer-reviewed by members of the IMCCC 2019 program committee and selected reviewers. Papers are selected based on their originality, significance, relevance, and clarity of presentation. Accepted papers with paid registration will be submitted in the Proceedings of IMCCC 2019, Normally **IEEE Xplore** digital library (to be determined) and are **EI-indexed**. Excellent papers are recommended to publish on the special issues of EI-indexed journals. Extra-Excellent papers are recommended to publish on the **SCI-indexed** journals.

Important Dates

The deadline for paper submission

The date for notification

The date for camera-ready paper submission

June 30, 2019

July 5, 2019

July 12, 2019