

11th International Symposium on Test Automation and Instrumentation (ISTAI 2026)

August 6th to 8th, 2026, Beijing China

Smart Measurement and Control Self-consistent Symbiosis

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Sponsor

- Chinese Instrument and Control Society (CIS)
- Beijing Information Science and Technology University

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- Chinese Journal of Scientific Instrument
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- Beijing Key Laboratory of Autonomous Navigation and Control for High-Dynamic Flight Vehicles
- Beijing Key Laboratory of Intelligent Operation and Maintenance and Control of High-end Equipment
- High-end Equipment Intelligent Perception and Control Beijing International Science & Technology Cooperation Base
- Journal of Electronic Measurement and Instrumentation
- Instrumentation
- Electronic Measurement Technology

Important Dates

Mar. 1st, 2026

Paper Submission Open

June 30th, 2026

Paper Submission Deadline

August 6th, 2026

Proceedings Published

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The International Symposium on Test Automation and Instrumentation (ISTAI) is proudly sponsored by the China Instrument & Control Society (CIS) and Beijing Information Science and Technology University. ISTAI stands as a premier international event focused on the fields of automated testing, control, and instrumentation. It is held biennially and especially dedicated to fostering advancements in test automation and industrial innovation.

The 11th International Symposium on Test Automation and Instrumentation (ISTAI 2026) will be held in Beijing on Aug. 6-8, 2026. The ISTAI 2026 conference proceedings will be published by IET Digital Library, which will be included in the IET Digital Library and IEEE Xplore, and indexed by the Ei Compendex.

Topics For ISTAI 2026 include

Basic theory and cutting-edge technology

- Basic theory and methodology of modern instrumental science, automated testing
- Automatic test system and bus technology
- Atomic interference measurement

Signal and image processing

- Data, big data acquisition and processing
- Weak signal processing technology
- Data mining and information fusion
- Digital image processing & cloud computing

System operating status monitoring, fault diagnosis and prediction

- Condition monitoring and fault diagnosis
- Intelligent measurement and control
- Trend prediction and early fault prediction
- Measurement and control of new energy equipment

Sensors and internet of things technology

- Wireless sensor technology and applications
- Emerging sensors and their networks
- Quantum sensing technology
- Wearable and neuromorphic sensor
- Flexible micro-nano technology
- IoT and space-air-ground integration
- Architecture, applications, and prospects of the internet of things

Instrumentation and system design and application

- Embedded systems and applications
- Test software & virtual instrument
- Modeling and simulation
- Power transmission system test

Integrated measurement and control technology

- Bionic & intelligent measurement and control
- Measurement and control integration technology
- Flexible coupling, agile position and attitude control

Optical-mechanical-electrical-hydraulic integration technology and comprehensive measurement and control technology

- Intelligent, digital manufacturing and automation
- Holographic optics, diffractive optics, photoelectric conversion and photoelectric instruments
- Metamaterials and novel optical instruments
- Applications of laser, infrared, nano, optical communication, THz and other technologies

Artificial intelligence research

- Robots
- Intelligent information communication
- Language & image recognition
- Natural language processing
- Intelligent search & control
- Digital twin
- Embodied intelligence
- Brain-computer interface and neural information Decoding
- Genetic programming

Environmental monitoring and protection

- EMI / EMC instruments and electromagnetic contamination analysis and testing
- Application of atmospheric and water quality monitoring technology & instruments
- Oilfield, mine environmental monitoring technology and application
- Food and drug quality detection technology and application
- Life science instruments

Intelligent information processing technology

- Cultural computing and social computing
- Digital profile
- Dissemination of digital culture
- Information mining, network and information security
- Information infrastructure
- Virtual reality and multimedia technology