

First Announcement and call for papers

ISIST'2008

5th International Symposium On Instrumentation Science And Technology

September 15~18, 2008
Shenyang, China

Sponsors:

International Committee on Measurements and Instrumentation (ICMI)
National Natural Science Foundation of China (NSFC)
Chinese Society for Measurement (CSM)
China Instrument Society (CIS)

Organizers:

International Committee on Measurements and Instrumentation (ICMI)
Instrumentation Committee of CSM
Harbin Institute of Technology (HIT)

Co-organizer:

Shenyang University of Technology, China

International Symposium on Instrument Science and Technology (ISIST) is an international symposium sponsored by International Committee on Measurements and Instrumentation (ICMI), National Natural Science Foundation of China (NSFC), Chinese Society for Measurement (CSM), and China Instrument Society (CIS). It is held every other year at different cities in China. The 1st, 2nd, 3rd and 4th ISISTs were held in Luoyang, Henan Province, 2000; Jinan, Shandong Province, 2002; Xi'an, Shaanxi Province, 2004; and Harbin, Heilongjiang Province, 2006 respectively. It can be seen from the statistics gathered during these four ISISTs that, by providing a platform for both senior and young Chinese and foreign research workers to display their achievements, and inviting a large number of well-accomplished scientists to speak at the ISIST plenary sessions reviewing both recent progresses and new challenges in areas related to but not limited to instrument science and technology, ISISTs promoted the academic exchanges among Chinese and foreign researchers and advanced many of the international cooperation programs between well-know universities and well-established research institutes inside and outside China. In addition, a lot of papers presented at ISISTs were included by overseas indexing services including EI. To sum up, ISIST has become an international symposium which attracted much attention from an increasing number of people working in the field of instrument science and technology.

So, the ISIST organizing committee has decided to hold the 5th ISIST (ISIST 2008) in Shenyang (Mukden), capital of Liaoning Province, China from September 15 to 18, 2008. ISIST 2008 is organized by International Committee on Measurements and Instrumentation (ICMI), Harbin Institute of Technology (HIT), and Instrumentation Committee of CSM, and co-organized by Shenyang University of Technology. The following are the major topics of ISIST 2008:

Instrument Science Fundamental Theory and Methodology

- Modern instrument design theory and method;
- Measurement theory and its application;

- Modeling, simulation and visualization;
- Error separation and compensation techniques;
- Modern error theory and compensation techniques;
- Instrument measurements traceability and calibration methods and techniques;
- Reliability of instrument and measurement systems.

Instruments and Systems

- New measurement and instrument techniques;
- Virtual realistic instruments;
- Intelligent instruments and systems;
- Spatial coordinate measurement technologies and systems;
- Computer vision measurement techniques and systems.

Sensors and Converters

- New sensors and converters;
- Modeling, analysis and simulation of sensors;
- Intelligent sensors;
- Biosensors;
- Sensors for robotics;
- Sensor fusion technology;
- Fiber optic sensing
- Miniatured drive technology.

Signal and Image processing

- Time domain signal processing;
- Frequency domain signal processing;
- Acquisition and reconstruction of 3D information;
- Processing and transmission of numerical images.

Biomedical Optic Instruments

- Confocal tomography scan imaging technique;
- Optic low coherence tomography;
- Spectral imaging technique;
- New biomedical optic instruments;
- Bio-chip technique.

Laser Measurement Techniques and Instruments

- Beam shaping and wave-front conversion techniques;
- Laser collimation techniques and instruments;
- Laser interference measurement and instruments;
- Laser diffraction measurement and instrument;
- Laser probing technique;
- Fiber optic laser technique

Holography and Diffraction Optics and Instruments

- Holography and speckle interferometry;
- Diffraction optics, devices and applications;
- Binary optics, devices and applications;
- Refraction-diffraction system and instruments.

Advanced Optic Measurement Techniques

- Aspheric surface measurement technique;
- Special optic device measurement technique;
- Infrared sensing and imaging instruments;
- Infrared thermometric and thermophysical property measurement techniques;
- Optic system performance measurement technique.

Optoelectronic System Design and Optoelectronic Instruments

- New optoelectronic devices;
- New optic (Optoelectronic) system design methods;
- Near field optic microscopic technique;
- Adaptive optic system;
- Modern optic (optoelectronic) instruments.

Nanotechnology and MEMS

- STM, AFM and other SPMS;
- Nanometer measurement techniques and instruments;
- Micro-property test technologies for MEMS;
- Micro-sensors and micro-actuators;
- Micro-systems and instruments;
- Micro-operation technology and micro-robots.

Electromagnetic Measurement and Automated Test

- Electromagnetic measurement;
- Field bus instruments and FCS;
- Integrated measurement technologies;
- Internet-based measurement technologies;
- Software technology used during automated measurement;
- In-process inspection and instruments.



Requirements for papers

- Both abstracts and papers must be written in English, and all the papers accepted must be presented in English as well;
- It is required for each paper submitted to have an abstract of about 200 words. Both abstracts and papers can be electronically submitted. The deadlines for submission of abstracts and papers are March 30 and May 30, 2008 respectively.



Proceedings of ISIST 2008

All the papers presented at ISIST 2008 will be included in the proceedings of ISIST 2008. However, for discipline maintenance, the organizing committee has made it a rule that if a participant fails to show up at the ISIST conference to present his or her paper, the paper will be withdrawn from the proceedings of ISIST 2008.

Inclusion of Papers by Overseas Indexing Services

It is still very difficult for us to say anything at this moment about possible inclusion of papers by overseas indexing services, although we are now trying our best to make the most appropriate arrangement.



Submission of Abstracts

An abstract of about 500 words is required for every unpublished paper. The abstract should introduce research purposes, principles, methods, key techniques, essential equations, figures and data, results, and conclusions. All abstracts must include the title of the paper, names of the author and principal co-authors, address, phone/fax number or E-mail address.

Submission of abstract must be uploaded through the website: www.isist.org



Registration Fee

The registration fee is expected to be 420 USD per head.



Further Information

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