THE 16th INTERNATIONAL CONGRESS FOR STEREOLOGY AND IMAGE ANALYSIS (ICSIA 2023)

2023 (16TH) INTERNATIONAL CONGRESS FOR
STEREOLOGY AND IMAGE ANALYSIS

Call for Paper

ICSIA is a high-level conference from the International Society for Stereology & Image Analysis (ISSIA) aiming to promote stereology and image analysis in a wide range of disciplines.

ICSIA is an important event for researchers, engineers and scientists from around the world to present and discuss recent advances, technologies and applications in the fields of Image analysis and Stereology. The congress will feature world-class speakers, plenary, regular, poster and special sessions as well as business and industrial exhibits.

CONFERENCE PROCEEDINGS

All submissions will be peer-reviewed. Accepted and registered papers will be published in the *CHINESE JOURNAL OF STEREOLOGY AND IMAGE ANALYSIS* or in the *IMAGE ANALYSIS & STEREOLOGY.*

SUBMISSION METHODS

ICSIA 2023 consists of several Parallel Sessions with different topics. A paper/abstract can only be submitted to a single Session. **Submission System: https://icsia2023.scimeeting.cn/en/contribute/notes/16759**

Full paper template downloading:
https://files.sciconf.cn/upload/file/20230118/20230118170405_23077.docx

Abstract template: downloading:
https://files.sciconf.cn/upload/file/20230118/20230118170422_26438.docx

CONFERENCE CO-CHAIRS

Yue Zhang, University of Science and Technology Beijing, China
Ales Kladnik, University of Ljubljana, Slovenia

SCIENTIFIC COMMITTEE CO-CHAIRS

Zhiqiang Chen, Tsinghua University, China
Eric Pirard, University of Ljege, Belgium

ORGANIZING COMMITTEE

Chair: Xiaoyan Song, Beijing University of Technology, China
Vice Chair: Liang Li, Tsinghua University, China

IMPORTANT DATES

Conference Date	Paper Submission Deadline	Early Bird Registration Deadline	On-Site Registration Date
Oct. 27-30, 2023	Aug. 17, 2023	Oct. 17, 2023	Oct. 27, 2023

CONTACT INFO

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For more information: https://icsia2023.scimeeting.cn/

CONFERENCE TOPICS

Specific topics of interest include, but are NOT limited to:

Topic 1: Stereological Methods and Applications

Methods:
- Stereology
- Geometrical and topological tools
- Main mathematical and physical transforms
- Mathematical morphology
- Stochastic geometry
- Spatial statistics
- Space-time dynamics
- Pattern analysis
- Texture evaluation
- Fractals

Applications:
- Agriculture
- High resolution imaging in remote sensing
- Vision, industrial control, real time aspects, and electronic architectures
- Microelectronics
- Secure information systems

Topic 2: Biomedical and Multimedia Information Processing: Technologies and Applications

- Rapid/low-dose medical image reconstruction, and cross-modality medical image generation
- Medical image registration, segmentation, classification, prognosis assessment, and intelligent diagnosis and treatment methods and systems
- 3D vision and reconstruction, image restoration, computational photography, sensing and display technologies, remote sensing image interpretation, document analysis and recognition, biometric identification, target detection, tracking and recognition, vision applications and systems
- Multimedia information and multimodal information acquisition, quality assessment, compression, transmission, enhancement, analysis, understanding, and reasoning

Topic 3: Quantification of the Microstructure of Materials

- Stereology in materials science
- Quantitative metallography
- Microstructure morphology
- Microstructure image analysis and processing, and related topics

Topic 4: Biomedical Stereology: Advanced Technologies and Applications

- Neurostereology and image analysis
- Quantitative pathology
- AI pathology
- Medical imaging techniques and applications

Topic 5: Digital Imaging Theories and Novel CT Technologies

- Low dose imaging
- Spectral CT
- Limited-angle CT
- Phase contrast CT
- SPECT/PET
- Neutron imaging
- Imaging and assessment
- Typical applications, and related topics

Topic 6: Intelligent Imaging

- Image reconstruction theories and methods
- Intelligent imaging technologies and systems
- Intelligent imaging application technologies
- Intelligent image processing technologies

Topic 7: Virtual Reality Technologies

- Image segmentation and analysis
- Image registration and fusion
- 3D image reconstruction
- Environment modeling and simulation
- Virtual surgical navigation
- Sports training simulation