

MCVR 2023

INTERNATIONAL CONFERENCE ON MEDICAL COMPUTER
VISION AND ROBOTICS

Ningbo, China | December 8-10, 2023

CALL FOR PAPER

Track 1: Medical Image Analysis

- Segmentation and feature extraction in medical images
- Image registration and fusion for multimodal imaging
- 3D and 4D image reconstruction in medical imaging
- Deep learning for medical image analysis
- Image-guided therapy and intervention

Track 2: Biomedical Signal and Image Processing

- Signal processing and analysis of physiological data
- Hyperspectral imaging for medical diagnosis
- Biomedical data compression and storage
- Machine learning for physiological signal processing
- Noninvasive physiological monitoring and diagnosis

Track 3: Machine Learning and Artificial Intelligence

- Deep learning for medical image analysis
- Transfer learning for medical applications
- Explainable AI in medical decision support systems
- Machine learning for drug discovery and personalized medicine
- Data privacy and security in medical AI

Track 4: Computer-Assisted Surgery

- Surgical planning and simulation for computer-assisted surgery
- Robot-assisted surgery and telesurgery
- Machine learning for computer-assisted surgery
- Image-guided radiation therapy
- Haptics and tactile feedback in surgical robotics

Track 5: Virtual and Augmented Reality in Medicine

- Virtual and augmented reality for medical training and simulation
- Augmented reality for image-guided interventions
- Virtual reality for rehabilitation and therapy
- User interface design for medical VR/AR applications
- Perception and cognitive processing in medical VR/AR

Track 6: Medical Robotics and Automation

- Design and control of surgical robots
- Wearable robotics and exoskeletons for gait assistance
- Sensor-based automation in healthcare settings
- Emerging trends in medical robotics and automation

For more topics, please check: <http://www.mcvr2023.org/cfp.html>

International Conference on Medical Computer Vision and Robotics (MCVR 2023), hosted by the Ningbo Institute of Materials Technology & Engineering, CAS, China will be held in Ningbo, China during December 8-10, 2023.

The field of Medical Computer Vision and Robotics has made significant progress in recent years, with advancements in technology enabling more precise and efficient medical procedures. From computer-aided diagnosis to surgical robots, this interdisciplinary field has the potential to revolutionize healthcare delivery and improve patient outcomes. This conference presents a unique opportunity for experts and scholars to come together to share their research, ideas, and experience.

Conference Committee

• Advisory Chair

Prof. Yifan Chen, University of Electronic Science and Technology of China, China

• Conference Chairs

Prof. Jimmy Liu, Southern University of Science and Technology, China

Prof. Xiongbiao Luo, Xiamen University, China

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Prof. Yitian Zhao, Ningbo Institute of Materials Technology & Engineering, CAS, China

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• Area Chairs

Assoc. Prof. Jiong Zhang, Ningbo Institute of Industrial Technology, Chinese Academy of Science, China

Dr. Huazhu Fu, Institute of High Performance Computing, A*STAR, Singapore

Program Overview

Dec. 8	10:00 - 17:00	Sign in and Materials Collection
	14:00 - 16:00	Committee Conference
Dec. 9	09:00 - 12:00	Opening Ceremony & Keynote Speeches
	13:30 - 18:00	Invited Speeches & Technical Sessions
	18:00 - 20:30	Awards Ceremony & Banquet
Dec. 10	09:00 - 12:00	Invited Speeches & Technical Sessions
	13:30 - 19:00	City Tour

Submission

- **Submission Deadline: October 5, 2023**

- **Submission Requirement**

-**Language:** Submitted papers must be written in the English language.

-**Paper length:** Full paper (including figures, tables, and references) must be no less than 8 pages.

- **Submission Template:** <http://www.mcvr2023.org/files/template.docx>

- **Submission Method:** The EasyChair Submission System.

Link: <http://www.easychair.org/conferences/?conf=mcvr2023>

- **Submission Type:**

-**Publication & Presentation:** Full paper submission is required if you consider publishing your paper.

-**Presentation Only:** Abstract submission is acceptable for presentation only at MCVR 2023.

Publication

Submitted papers will be peer reviewed by reviewers, and accepted papers after proper registration and presentation will be published in the Conference Proceedings, which will be indexed by **Ei Compindex**, **Scopus**, etc.

Invited Speakers

- **Assoc. Prof. Sheng Li**

Zhejiang University of Technology, China

- **Assoc. Prof. Yuwen Chen**

Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Science, China

More invited speakers will be announced soon.

Hosted by  **CNITECH** 中国科学院宁波材料技术与工程研究所
Ningbo Institute of Materials Technology & Engineering, CAS



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Website: <http://www.mcvr2023.org/>