

# The 16th International Conference on Intelligent Robotics and Applications (ICIRA 2023)

July 5-7, 2023 in Hangzhou, China



## ORGANIZER

浙江大学

ZHEJIANG UNIVERSITY

### Conference Chair

Huayong Yang, ZJU China

### Honorary Chair

Youlun Xiong, HUST China

### General Chairs

Honghai Liu, HIT, China

Jun Zou, ZJU, China

Zhouping Yin, HUST, China

Lianqing Liu, CAS, China

### Program Chairs

Geng Yang, ZJU, China

Li Jiang, HIT, China

Guoying Gu, SJTU, China

Xinyu Wu, CAS, China

### Award Committee Chair

Yong Lei, ZJU, China

### Publication Chair

Xiaoping Ouyang, ZJU, China

Zhiyong Wang, HIT, China

### Regional Chairs

Zhiyong Chen, U. Newcastle, Australia

Naoyuki Kubota, TMU, Japan

Zhaojie Ju, U. Portsmouth, UK

Eric Perreault, U. Northeastern, USA

Peter Xu, U. Auckland, New Zealand

Simon Yang, U. Guelph, Canada

Houxiang Zhang, NTNU, Norway

Duanling Li, BUPT, China

## Important Date:

Submission of session proposals:  
**April, 21, 2023**

Submission of full papers:  
**May, 25, May, 31, 2023**

Notification of paper acceptance:  
**Jun, 25, 2023**

Submission of final papers:  
**Jun, 30, 2023**

## INVITATION

ICIRA2023 is going to be held on July 5-7, Hangzhou, China. You are welcome to Hangzhou for taking part in this great international academic event.

The conference will be hosted by Zhejiang University. The conference covers plenary talks, keynote speeches, special invitation reports and posters. This conference aims to promote the development of global robotics technology and applications. The conference will invite international experts in robotics and application fields to give plenary talks and keynote speeches.

For more information, please refer to the official homepage: [icira2023.org](http://icira2023.org)

We are more than happy to assist you in any way possible as you plan your trip to Hangzhou. Please do not hesitate to contact us with any questions at our secretariat at [info@icira2023.org](mailto:info@icira2023.org). We are looking forward to seeing you in ICIRA2023 Hangzhou.

Thank you for your interest and participation in ICIRA2023.

## TOPICS

The topics in ICIRA 2023 include but not limited to:

### ROBOTICS:

Human-robot interaction;  
Parallel robots; Machining robots;  
Soft robots;  
Mobile robots and intelligent autonomous systems;  
Robotic vision, recognition and reconstruction;  
Robot intelligence, learning and linguistics;  
Robot design, development and control;  
Robot motion analysis and planning;  
Medical robot;  
Robot legged locomotion;  
Space and underwater robots;  
Navigation/Localization.

### MECHATRONICS:

Advanced measurement and machine vision system;  
Flexible electronics/sensors;  
Smart/Electrical skin;  
Drives and actuators' modeling;  
Education in mechatronics engineering;  
Micro-electro-mechanical systems;  
Multi-sensor data fusion algorithms;  
Mechatronics in energy systems;  
Motion vibration and noise control;  
Sensing of small quantities;  
Automotive systems;  
Data storage systems;  
Electronic packaging;  
Micro/nano technology.

### AUTOMATION:

Adaptive and learning control systems;  
Advanced control and informatics;  
Computer integrated manufacturing;  
Embedded sensors and actuators;  
Estimation and identification;  
Factory modeling and automation;  
Flexible manufacturing systems;  
Fuzzy and neural systems;  
Man-machine interactions;  
Modeling of complex systems;  
Motion control;  
Micro and nano systems;  
Nonlinear systems and control;  
Sensors and transducers;  
Smart structures & materials hybrid; Stability and stabilization.

### APPLICATIONS:

New emerging robotic applications in service construction, forestry, agriculture, field, search and rescue, underwater tasks, on-orbital service, and planetary exploration, will be also the main topics in ICIRA 2023.

## CONTACT

Web site: [www.icira2023.org](http://www.icira2023.org)  
Email: [info@icira2023.org](mailto:info@icira2023.org)



## ABOUT HANGZHOU

Hangzhou is one of the seven ancient capitals and has always been the most attractive tourist city in China. With the picturesque scenery of the West Lake located right in the heart of the city.