First Call for Papers

MIPE2022

August 28–31, 2022
Nagoya University, Japan

2022 JSME-IIP/ASME-ISPS
Joint International Conference on
Micromechatronics for Information and
Precision Equipment
(Hybrid event)

Conference webpage: https://www.nagoya-mipe2022.org/

Participating Divisions:

JSME Information, Intelligence and Precision Equipment (IIP) Division
ASME Information Storage and Processing Systems (ISPS) Division

Conference Chairs:

Professor Kenji Fukuzawa, Nagoya University, Aichi, Japan
Dr. Rahul Rai, Western Digital, USA

2022 JSME-IIP/ASME-ISPS Joint International Conference on Micromechatronics for Information and Precision Equipment **(MIPE2022)** will be held at Nagoya University, Aichi, Japan, from August 28 to August 31, 2022 as a **hybrid event**. MIPE2022 is now soliciting technical presentations for the conference to be held jointly organized by the Information Storage and Processing Systems (ISPS) division of ASME and the Information, Intelligence and Precision Equipment Division (IIP) of JSME. The conference covers a wide spectrum of research topics in areas (listed in the next page).

Potential presenters are requested to submit an abstract for review. Please submit the abstract via MIPE2022 webpage. Once the paper is accepted for presentation, the authors shall prepare a 1–3 pages extended abstract to be included in conference proceedings. The copyright of each extended abstract belongs to each author. Sessions are listed in the next page, and detailed information will appear in MIPE2022 web page shortly.

Important Dates:

Submission of abstract (300 words)	31 March 2022 (Deadline)
Author notification of abstract acceptance	31 May 2022
Announcement on the decision of event style (hybrid / fully virtual)	**31 May 2022**
Submission of 1–3 pages camera-ready extended abstract	30 June 2022 (Deadline)

Organized Sessions:

1. Biomedical Mechatronic Systems

Science and technologies on mechatronic systems for biomedical application

2. Mechatronics and Tribology of Information Storage Systems

Head-media interface tribology, Magnetic head technology, Energy assisted magnetic recording, Dynamics and servo control of magnetic recording

3. Science and Technology of Flexible Media Handling and Printable/Wearable Devices

Flexible media dynamics and control, Roll to roll printing, Nano-imprint, Printable electronics, Coating and drying technology, Surface wetting phenomena, Laser microfabrication, Tribology for soft and flexible material handling, Flexible and Wearable devices, and Copy machines, printers, scanners, office automation equipment

4. Mechanical Systems of Consumer Electronics and Optical Imaging Devices

Consumer electrics devices and systems, Optical imaging systems and sensing devices detecting, Optical information, Optomechatronic systems based on imaging and sensing devices, and Interactive devices in human-machine interface, etc.

5. Machine Learning and Intelligent Mechanical Systems

Mechanical systems with artificial intelligence using big data and machine learning etc.

6. Robotics

Dynamics and control for engineering fields including robots, mechatronics, medical devices, human integrated systems, unmanned vehicles, etc.

7. Micro/Nano Mechanical Systems

Micro/nano mechatronic systems, Smart sensors and actuators

8. Micro/Nano System Science and Technology

Materials science and engineering for micro/nano devices, Information storages, Displays, Energy recycle, Material characteristics control, and Smart material applied system

9. Advanced Simulation in Science and Engineering

Advanced computational simulations in engineering fields of mechanics, Electro-mechanics, Electronics and simulation methods and optimization methods

10. IoT and Smart Maintenance

IoT technologies for information, Intelligence and precision systems, Maintenance, Maintenance and reliability enhancement for infrastructure, Energy harvesters for IoT

Special Issue to International Journals:

TBD

On-site Venue of the event:

Toyoda Auditorium Complex, Nagoya University (Higashiyama Campus)
Located 3-minute walk from Nagoya Daigaku station.

General contact:

Professor Shintaro Itoh (Nagoya University, Conference Secretariat)
E-mail: staff@nagoya-mipe2022.org

Conference webpage:

https://www.nagoya-mipe2022.org/