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**(ISPS2023)**

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THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS  
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# ASME 2023 32<sup>ND</sup> CONFERENCE ON INFORMATION STORAGE AND PROCESSING SYSTEMS (ISPS2023)

## WELCOME FROM THE CONFERENCE CHAIRS

On behalf of the American Society of Mechanical Engineers (ASME) Information Storage and Processing Systems (ISPS) Executive Committee, it is our pleasure to welcome you to the 2023 ASME ISPS Conference.

This year marks the 32nd ISPS conference held since 1981. The conference focuses on information storage and processing systems as well as intelligent and precision equipment. Topics ranging from magnetic and solid state data storage and memory to intelligent materials and devices in medical systems and human-machine interfaces will be presented at this year's conference. This year, we added several new tracks to our conference, covering the areas of smart systems, machine learning, human-machine interactions, and artificial intelligence in mechanical engineering. In those applications, data storage, memory, and processing are crucial. Attracting more than 30 high quality technical presentations and papers from both industry and academia, ISPS provides a forum for international researchers from all over the world to share their findings, to network, and to foster new opportunities for collaboration. A key objective is also to attract and support graduate students and researchers in ISPS technical areas and related industries.

As is customary, the ISPS 2023 annual conference will be held in the state of California, known for its world-renowned universities and trailblazing industrial innovations in science and technology. This year's ISPS conference is hosted by the ASME ISPS Division at the beautiful campus of Western Digital, Milpitas. The ISPS conference features keynote speeches during both lunch events and the dinner banquet. At the ISPS banquet, Prof. Bharat Bhushan, Academy Professor from The Ohio State University, will deliver a distinguished talk on the Historical Evolution of Magnetic Storage Devices and Conferences. The banquet will also include the ISPS award ceremony to recognize the student fellowships and scholarships. In the first day's lunch event, Dr. Lidu Huang from Meta will discuss Miniature Actuators and Cameras for AR and VR Applications. On the second day, lunch will feature a talk by Dr. Huan Tang, who will discuss HAMR - The Ultimate HDD Technology.

On behalf of the ISPS organizing committee, we acknowledge all volunteers who have taken time to invite speakers, organize tracks, and review papers and awards. We would also like to acknowledge the invaluable assistance provided by the ASME staff during the coordination of the ISPS conference year after year.

Finally, we would like to thank all conference participants and hope that everyone will have a wonderful and rewarding experience at ISPS 2023.

Sincerely,

Dr. Yuan Ma, Conference Chair and Dr. Tan Trinh, Conference Co-Chair



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## **Flexible Media Handling Machines and Printed Electronics, Exposing and Printing Technologies**

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## **Smart Sensors and Actuators**

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## **Tribology, Dynamics, and Servo Control of Nano-Micro Systems**

Track Chair: Juang Jia-Yang, *National Taiwan University*





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