

Special Invited Session 01

Micro Biosensing and Micro Manipulation

This special session focuses on advances in micro-scale sensing and manipulation technologies for nano- and micro/molecular systems. It will highlight novel sensors, transduction mechanisms, and integrated platforms that enable precise detection, characterization, and manipulation of micro- and nano-scale objects, including cells, particles, and molecules. Topics include microelectromechanical and microfluidic sensors, optical and magnetic manipulation, bio-sensing, real-time feedback and control, and system-level integration. The session aims to bring together researchers from sensing, robotics, micro/nanofabrication, and biomedical engineering to discuss current challenges, emerging applications, and future directions in micro sensing and micro manipulation technologies.

Special Invited Session Chairs

**Yi Zhang**

University of Electronic Science and Technology of China, China

**Shilun Feng**

Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, China

**Haitao Zhao**

Northwestern Polytechnical University, China

**Yanwei Jia**

University of Macau, China

**Haisong Lin**

Westlake University, China

**Jinhong Guo**

Shanghai Jiao Tong University, China

**Megan Yi-Ping Ho**

The Chinese University of Hong Kong, China

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The Chinese University of Hong Kong, China



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Paper Submission

For the initial submission, the authors can select one of the following two types:

- Type 1: full paper (4-6 pages)
- Type 2: extended abstract (2 pages)

*Note:

▪ **View more on website:**

<https://www.ieee-nems2026.org/initial-submission.html>

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- Step 1: Please select the track “**Special Invited Sessions**” and click “**Continue.**”
- Step 2: After filling in the basic paper information, please select the topic “**SIS01 – Micro Biosensing and Micro Manipulation.**”



Important Dates

Initial Submission (Full Paper or Extended Abstract)	Jan. 31, 2026
Notification of Acceptance	Feb. 10, 2026
Late-News Submission Deadline	Feb. 28, 2026
Early Registration Deadline	Mar. 10, 2026
Presentation-Only Submission Deadline	Mar. 10, 2026
Final Submission Deadline	Mar. 10, 2026

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