

# Special Invited Session 10

## Milli Micro and Nano Robotics

This special session focuses on recent advances and emerging trends in milli-, micro-, and nano-scale robotic systems, spanning design, fabrication, actuation, sensing, control, and integration with micro/nano/molecular technologies. The session aims to highlight how robotic systems at small scales enable new capabilities for biomedical applications, targeted therapy, lab-on-chip systems, environmental monitoring, precision manufacturing, and minimally invasive interventions. Emphasis will be placed on interdisciplinary approaches that combine robotics, materials science, micro/nanofabrication, fluidics, and molecular systems. By bringing together researchers from academia and industry, this session seeks to foster discussion on fundamental challenges, scalable solutions, and future directions for intelligent robotic systems operating across milli to nano length scales.



2026 IEEE 21<sup>st</sup> International Conference on  
Nano/Micro Engineered and Molecular Systems

April 17-21, 2026 Chengdu, China

### Special Invited Session Chairs .....



**Yi Zhang**

University of Electronic Science and Technology  
of China, China



**Yongliang Yang**

Shenyang Institute of Automation, Chinese Academy  
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**Yuliang Zhao**

Northeastern University, China



**Guozhan Lum**

Nanyang Technological University, Singapore



**Tianliang Li**

Wuhan University of Technology, China



**Yifan Wang**

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**Yichuan Wu**

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**Xin Song**

City University of Hong Kong, China



**Qingkun Liu**

Shanghai Jiao Tong University, China



**Zhuoran Zhang**

Dalian University of Technology, China

### 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 “**SIS10 – Milli Micro and Nano Robotics**.”



### Important Dates .....

Initial Submission (Full Paper or Extended Abstract)	Jan. 10, 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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