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.

IEEE NEMS

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

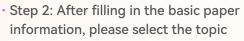
Paper Submission ·····-

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

- Type 1: full paper (4-6 pages)
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- View more on website: https://www.ieee-nems2026.org/initial-submission.html
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"SIS01 - Micro Biosensing and Micro Manipulation."

University of Electronic Science and Technology of China, China

Special Invited Session Chairs



Shilun Feng

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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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