Special Invited Session 11

AI for Micro/Nano Electro-Mechanical Systems

IEEE NEMS 2026

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

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As a new "machinery" empowering MEMS/NEMS innovation, AI/ML has accelerated the full pipeline from concept to deployment in the past years. Consequently, emerging approaches—including ML for MEMS design, ML for fabrication optimization, and ML-based data fusion for calibration, drift compensation, and robust sensing—are being widely explored, alongside MEMS devices for AI computation enabling sensing–compute co-design at the edge. Therefore, this session focuses on (but not limited to) the latest developments and findings in AI for MEMS, spanning design, fabrication, intelligent data utilization, and MEMS-enabled computing.

Special Invited Session Chairs

Xudong Zou
Aerospace Information Research Institute, Chinese Academy of Sciences, China

Chen Wang
KU Leuven, Belgium

Chong Li
Ocean University of China, 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*
- **Submit your paper through the following link or QR code:** *https://easychair.org/conferences/?conf=nems2026*
  - 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 "**SIS11 – AI for Micro/Nano Electro-Mechanical Systems**."

Paper Submission

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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