

# Special Invited Session 12

## Non-linear Mechanisms Enabled M/NEMS

As a cornerstone of modern micro/nano electromechanical systems (M/NEMS), nonlinear dynamics has unlocked unprecedented functionalities in resonator design and performance. Over the years, deliberate introduction of nonlinearity has enabled remarkable advances in ultra-sensitive detection, frequency manipulation, signal processing, and beyond. This session is dedicated to cutting-edge research on nonlinear micro/nano resonators—from fundamental mechanisms to transformative applications—highlighting innovations in sensing, actuation, frequency generation, and integrated microsystems driven by tailored nonlinear behavior.

### Special Invited Session Chairs



**Dong F. Wang**

Jilin University, China



**Xueyong Wei**

Xi'an Jiaotong University, China



**Cao Xia**

Sichuan University, China



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

April 17-21, 2026 Chengdu, 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:

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- Step 2: After filling in the basic paper information, please select the topic

**“SIS12 – Non-linear Mechanisms Enabled M/NEMS.”**



### 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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