

Special Invited Session 23

Advanced Biomedical Optical Imaging

Sponsored by the IEEE Nanotechnology Council, IEEE-NEMS serves as a premier platform for advancing research in M/NEMS, nanotechnology, and molecular technologies. As the fundamental roles of physical and chemical features within biological systems at the micro- and nano-scales become increasingly recognized, the demand for high-precision optical imaging to characterize molecular and cellular features has reached a critical turning point. To address this need, this symposium focuses on nano photonics and micro/molecular optical devices, highlighting transformative optical breakthroughs designed to resolve challenges in super-resolution imaging, deep-tissue visualization, long-term live-cell monitoring. By convening prestigious experts across optics, mechanobiology and biomedical engineering, we aim to catalyze the development of next-generation imaging platforms and pioneer new frontiers in optical sensing for biological applications.



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

April 17-21, 2026 Chengdu, China

Special Invited Session Chairs



Renjie Zhou

The Chinese University of Hong Kong, China



Yongliang Yang

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

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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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