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3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held in August 2027 in Shanghai, China. **The ultimate ambition of this conference series is to bridge the gap between nanosciences and engineering sciences**, aiming at technology opportunities and new markets. The advanced technologies for manipulation, manufacturing and measurement at nanoscale promise novel revolutionary products and methods in numerous areas of application. Scientists working in research fields related to 3M-NANO topics are invited to submit papers. **All accepted full papers (presented at the conference and following IEEE format) will be submitted in IEEE Xplore database and Ei Compendex.** Selected papers will be recommended for publication in the IEEE Trans. on Automation Science & Engineering, Int. J of Nanomanufacturing, IFAC Mechatronics, Int. J of Optomechatronics, J of Micro-Bio Robotics, Journal of Bionic Engineering, Light (Science & Applications), Optics and Precision Engineering, International Journal of Extreme Manufacturing, Material Today Bio, and other SCI/EI journals.

Organizers:

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International Society for Nano Manipulation, Manufacturing and Measurement
IEEE Nanotechnology Council

Topics:

Specific topics include, but are not limited to

Nanohandling robots and systems	Nanomaterials and applications
Nanofabrication and nanoassembly	Graphene, 2D materials and applications
Nanometrology and nanocharacterization	Nanoparticles, nanowires and nanotubes
Nanopositioning and nanomanipulation	Nanoelectronics and nanomagnetics
Nanosensing and microscopy	Nanophotonics and plasmonics
AFM and SEM for nanohandling	Nanomechanics and nanomechanics
Process automation at nanoscale	NEMS and their applications
Self-assembly at nanoscale	Nanofluidics
Nanoscale robotics	DNA detection and sequencing
Nanolithography	Bio-nano devices and applications
Nanoenergy	Bio-nanoimaging and nanomeasurement
Nanoscience for healthy foods	Nanotech and environmental protection
3D/4D printing and applications	

High-profile keynote talks (20-24) on selected topics in manipulation, manufacturing and measurement on the nanoscale will be offered by **distinguished international experts**.

Social events: 3M-NANO aims at encouraging long-term partnerships and collaborative activities between experts in nanosciences and in engineering sciences. **Get-together events will be organized by 3M-NANO as part of this effort.**

Venue: Shanghai, a municipality directly under the central government of China, is a modern international metropolis with a spirit of inclusiveness, pursuit of excellence, broad-mindedness, and humility. Located at the estuary of the Yangtze River in East China and facing the Pacific Ocean, Shanghai forms part of the Yangtze River Delta, one of China's most robust, open and innovative regions.

Important Dates

Full paper submission:	1 May 2027
Proposals for special session (5-6 papers):	1 May 2027
Advanced registration (Early bird discount):	15 July 2027

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