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2025 IEEE International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale

28 July – 1 August 2025, Changchun, China

3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held on 28 July – 1 August 2025 in Changchun, 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: Jilin University, China

- International Research Centre for Nano Handling and Manufacturing of China
- Changchun University of Science and Technology, China
- Aarhus University, Denmark
- University of Warwick, UK
- University of Bedfordshire, UK
- Ministry of Education Key Laboratory for Cross-Scale Micro and Nano Manufacturing, China
- International Society for Nano Manipulation, Manufacturing and Measurement
- IEEE Nanotechnology Council

Topics: Specific topics include, but are not limited to

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

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: The capital city of Jilin Province, known as the forest city, automobile city and film city, is located in the central part of Songliao Plain in Northeast China. Being one of the four Chinese Garden cities and host of 2007 Asian Winter Games, Changchun plays a pivotal role in the development of northeast China and enjoys a modern transportation infrastructure.

Important Dates

- Full paper submission:** 1 May 2025
- Proposals for special session (5-6 papers):** 1 May 2025
- Advanced registration (Early bird discount):** 15 July 2025



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