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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
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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 nanomagnetism
Nanosensing and microscopy	Nanophotonics and plasmonics
AFM and SEM for nanohandling	Nanomechanics and nanomechatronics
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: 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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