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**3M-NANO** is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held on 8-12 August 2022 in Tianjin, 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 and Material Today Bio and other SCI/EI journals.

**Organizers:** Tianjin University, China

International Research Centre for Nano Handling and Manufacturing of China

Changchun University of Science and Technology, China

Aarhus University, Denmark

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Ministry of Education Key Laboratory for Cross-Scale Micro and Nano Manufacturing, China

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State Key Laboratory of High Power Semiconductor Laser, 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	Nanomaterials and applications
Nanofabrication and nanoassembly	Graphene 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 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

**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:** Tianjin, Jin for short, is one of the four centrally administered municipalities. It has become the hub of communications of North China and the gateway of the capital city. It's the largest industrial city in North China and also the important commercial center and largest port city in northern China, which is rich in petroleum, natural gas and sea salt along the coastal area. As one of China's biggest industrial centers, Tianjin has built up an all-round industrial system with machinery, electronics, textiles, chemicals, metallurgy and foodstuff, etc., as its mainstays.



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