3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held 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 and other SCI/Ei journals.

Organizers:
Tianjin University, China
International Society for Nano-Manufacturing, Manipulation and Measurement
Changchun University of Technology, China
IEEE Nanotechnology Council
Tampere University of Technology, Finland
University of Bedfordshire, UK
University of South Wales, UK
Aarhus University, Denmark
Aarhus University, Denmark
University of South Wales, UK
University of Bedfordshire, UK

Topics:

- Nanohandling robots and systems
- Nanofabrication and nanoassembly
- Nanomotrology and nanocharacterization
- Nanopositioning and nanomanipulation
- Nanosensing and microscopy
- AFM and SEM for nanohandling
- Process automation at nanoscale
- Self-assembly at nanoscale
- Nanoscale robotics
- Nanolithography
- Nanoeenergy
- Nanomaterials and applications
- Nanosensors and applications
- Nanoparticles and 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-nanomaging 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 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 architectural 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.