3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held in August 2024 in Zhongshan, 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: Changzhou University of Science and Technology Zhongshan Institute, China International Research Centre for Nano Handling and Manufacturing of China Changzhou 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 Joint Research Center for Nanophotonics and Biophotonics, China State Key Laboratory of High Power Semiconductor Laser, China International Society for Nanomanufacturing, 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
- Nanoelectronics and nanomagnetics
- Nanoparticles, nanowires and nanotubes
- Nanodevices and applications
- Graphene and applications
- DNA detection and sequencing
- Nanophotonics and plasmonics
- Nanomechanics and nanomechatronics
- NEMS and their applications
- Nanofluidics
- Bio-nanoimaging and sequencing
- 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 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: Zhongshan City is a prefecture-level city governed by Guangdong Province, governing 24 towns and situated in the central south of the Pearl River Delta, bordering on Guangzhou to the north and adjacent to Hong Kong and Macao, with a total area of 1800 square kilometers. Zhongshan is the hometown of Sun Yat-sen, and is known as the "Habitat Prize" by the UN in 1997.