3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held on 29 July – 2 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 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:
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Changchun University of Science and Technology, China
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Aarhus University, Denmark
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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
- Nanofabrication and nanomanufacturing
- Nanometrology and nanocharacterization
- Nanopositioning and nanomanipulation
- Nanosensing and microscopics
- AFM and SEM for nanomanufacturing
- 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-nanomaging and nanomasurement
- 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: Zhongshan City, formerly known as Xiangshan, is located in Guangdong Province, and it is the geometric center of the Guangdong-Hong Kong-Macao Greater Bay Area, with five international airports in Zhuhai, Shenzhen, Guangzhou, Hong Kong and Macao, as well as four deep-water ports, namely, Nansha Port, Yantian Port, Shekou Port and Gaolan Port, within a radius of 90 km.

Important Dates

Full paper submission: 1 May 2024
Proposals for special session (5-6 papers): 1 May 2024
Advanced registration (Early bird discount): 15 July 2024

www.3M-NANO.org
3M-NANO@cust.edu.cn

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