2018 IEEE International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale

13-17 August 2018, Hangzhou, China

3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held on 13-17 August 2018 in Hangzhou, 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: **Zhejiang University, China**
International Society for Nano Manipulation, Manufacturing and Measurement
Changchun University of Science and Technology, China
IEEE Nanotechnology Council
Tampere University of Technology, Finland
University of Bedfordshire, UK
University of South Wales, UK
Aarhus University, Denmark

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
- Nanoscale robotics
- Nanolithography
- Nanoenergy
- Nanomaterials and applications
- Graphene 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-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: Hangzhou is one of the important tourism cities in China, famous for its natural beauty and historical and cultural heritages. Hangzhou is the capital of Zhejiang province. It is the political, economic and cultural center of the province as well. It is one of the 15 vice-provincial level cities in China. Hangzhou covers a total area of 16596 square kilometers, with a population of 6.08 million, including 683 square kilometers of city proper area and city population of 1.69 million people. Hangzhou is located on the low reaches of Qiantang river in southeast China, with a distance of 180 kilometers to Shanghai. It is one of the key cities in the Yangzi Delta area. When Marco Polo came to Hangzhou in the 13th century, he praised it to be “the most beautiful city in the world". There is a popular saying: "Above there is heaven, below there are Hangzhou and Suzhou." Hangzhou is renowned as “Paradise on Earth”, “Cultural State”, “Home of Silk”, “Tea Capital”, “Town of Fish and Rice”.

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