2021 IEEE International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale

3-6 August 2021, Xi'an, China

3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held on 2-5 August 2021 in Xi’an, 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.


Organizers:

Xian Jiaotong University, China
International Research Centre for Nanophotonics and Biophotonics, China
Changchun 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 Nano Manipulation, Manufacturing and Measurement IEEE Nanotechnology Council

Topics:
Specific topics include, but are not limited to:

- Nanomanufacturing and nanoscale
- Nanometric tools and nanoassembly
- Nanometerology and nanocharacterization
- Nanopositioning and nanomanipulation
- Nanomaterials and micro-nanostructures
- AFM and MEMS for nanohandling
- Process automation at nanoscale
- Self-assembly at nanoscale
- Nanorobotics
- Nanolithography
- Nanomanufacturing
- Nanoeconomy
- Bio-nano devices and applications
- Bio-nanotechnology and nanomanufacturing
- Nanoimaging and nanomeasurement
- Graphene and applications
- Nanomaterials and applications
- Nanoelectronics and nanomagnetics
- Nanophotonics and plasmonics
- Nanomechanics and nanomechatronics
- MEMS and their applications
- Nanofluidics
- DNA detection and sequencing
- Full paper submission
- Proposals for special sessions (5-6 papers)

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: Xi’an, the eternal city, is one of the oldest cities in the world with a vivid and rich history and culture, records the great changes of the Chinese nation just like a living history book, called Chang’an in ancient times. It is not only the birthplace of the Chinese Nation, but also the birthplace of human civilization in Asia and the cultural center of prehistoric civilization. During Xi’an’s 3,100 year development, 13 dynasties placed their capitals here. So far, Xi’an enjoys equal fame with Athens, Cairo, and Rome as one of the four major ancient civilization capitals. Xi’an is the birthplace of the Chinese Nation, but also the birthplace of human civilization in Asia and the cultural center of prehistoric civilization. Xi’an is the capital of Shaanxi province, located in the southern part of the Guanzhong Plain. With the Qinling Mountains to the south and the Weihe River to the north, it is a favorable geographical location surrounded by water and hills. It has a semi-monsoon climate and there is a clear distinction between the four seasons. Except the colder winter, any season is relatively suitable for traveling.

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