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3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held on 2-6 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. **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 other SCI/EI journals.

Organizers: Xi'an Jiaotong University, China

International Research Centre for Nano Handling and Manufacturing of 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

Nanohandling robots and systems	Nanomaterials and applications
Nanofabrication and nanoassembly	Graphene and applications
Nanometrology and nanocharacterization	Nanoparticles, nanowires and nanotubes
Nanopositioning and nanomanipulation	Nanoelectronics and nanomagnetics
Nanosensing and microscopy	Nanophotonics and plasmonics
AFM and SEM for nanohandling	Nanomechanics and nanomechatronics
Process automation at nanoscale	NEMS and their applications
Self-assembly at nanoscale	Nanofluidics
Nanoscale robotics	DNA detection and sequencing
Nanolithography	Bio-nano devices and applications
Nanoenergy	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: 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 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 in a favorable geographical location surrounded by water and hills. It has a semi-moist monsoon climate and there is a clear distinction between the four seasons. Except the colder winter, any season is relatively suitable for traveling.

Important Dates

Full paper submission	1 May 2021
Proposals for special sessions (5-6 papers)	1 May 2021



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