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**3M-NANO** is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held on 3-7 August 2020 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 and other SCI/Ei journals.

**Organizers:** Xi'an Jiaotong 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

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| 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.



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