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# 2017 IEEE International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale

7-11 August 2017 Shanghai, China

**3M-NANO** is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; it will be held in August 2017 in Shanghai, 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:** Shanghai Jiao Tong University, China  
International Society for Nano Manipulation, Manufacturing and Measurement  
Changchun University of Science and Technology, China  
IEEE Nanotechnology Council  
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University of Bedfordshire, UK  
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Aarhus University, Denmark

**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:** Throughout the past century, Shanghai has had numerous name tags attached to it; like "Paris of the Orient" and "Pearl of China". Images of Shanghai more than any other Chinese city, are bountiful in the west. A visit here therefore, is naturally tainted to some extent, with a preconception of how the city will be. As the largest and most prosperous city in the nation, Shanghai is the economic, financial and cultural center of China, while Beijing is the political heart. And this image of Shanghai as a fast and modern metropolis is certainly the one that most visitors take away.

## Important Dates

**Full paper submission**  
**Proposals for special sessions (5-6 papers)**  
**Notification of Acceptance**  
**Advanced registration (Early Bird)**

**1 May 2017**  
**1 May 2017**  
**15 May 2017**  
**1 July 2017**



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