



CALL FOR PAPERS



The First International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale

29 August – 2 September 2011, Changchun, China

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3M-NANO is a new annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale, which will be held for the first time in Changchun, China. 3M-NANO covers advanced technologies for handling and fabrication on the nanoscale. These technologies promise novel revolutionary products and methods in numerous areas of application. Scientists working in different research fields are invited to submit papers for all aspects of theories, technologies and applications related to manipulation, manufacturing and measurement on the nanoscale. **All the 3M-NANO papers will be recommended for free-of-charge publication in Int. Journal of Intelligent Mechatronics and Robotics, Int. Journal of Optomechatronics, Int. Journal of Nanomanufacturing, and Acta Physico-Chimica Sinica.**

Sponsors:

National Natural Science Foundation of China

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Topics:

Nanomanipulation and nanoassembly	Down-scaling of manufacturing systems
Nanomaterials and nanocharacterization	Self-assembly on the nanoscale
Nanohandling robots and systems	Error detection in nanomanufacturing
Nanorobotics	Optical nanometrology
Nanopositioning systems	Nanometrology for MEMS/NEMS
Nanosensors	Precision lasers for nanometrology
Nanohandling systems in SEM	Advanced techniques for nanometrology
AFM-based nanohandling	Quantum dots, graphene
Nanofabrication processes and systems	Nanowires, nanotubes, nanohelices
Sensor feedback from the nanoscale	Nanoelectronics and nanomagnetics
Control issues in nanohandling	Nanophotonics and photonic crystals
Process automation on the nanoscale	Nanomechanics and nanomechatronics
Micro-to-nano-scale bridging	NEMS applications
Micro-Nano integration	Nanopackaging
System aspects of nanohandling	Nanofluidics
Modeling of nanoscale effects	Nanomedical devices and applications
Nanohandling applications	Bio-Nano devices and applications

Workshops: Workshops on selected topics in manipulation, manufacturing and measurement on the nanoscale will be arranged on the first day of the conference.

Workshop attendance is covered by 3M-NANO registration fee.

Social events: A major goal of the 3M-NANO conference is to support the development of the nanohandling research community and to encourage long-term partnerships and collaborative research activities. **The social events and tours will be organized by 3M-NANO free of charge as part of this effort.**

Venue: Changchun is the capital city of Jilin Province, located in the northeast of China close to the famous Changbai Mountains. It is a welcoming, modern city with excellent infrastructure and the reputation of being an “automobile and movie city”, “city of science and technology” and “granary of north China”.

Important Dates

Full paper submission	EXTENDED!!	15 April 2011
Proposals for special sessions (5-6 papers)	EXTENDED!!	15 April 2011
Notification of acceptance		15 May 2011
Final paper submission		15 June 2011
Advanced registration		15 June 2011
Registration for accepted papers		15 June 2011



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