



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

26-30 August 2013, Suzhou, China

Honorary Chairs:

Huadong Yu (CN)
Xiulin Zhu (CN)
Xijun Zhang (CN)

General Chairs:

Sergej Fatikow (DE)
Zuobin Wang (CN)
Lining Sun (CN)

Advisory Committee:

Chunli Bai (CN)
Karl Böhringer (US)
Peter Bryanston-Cross (UK)
Nicolas Chaillet (FR)
Shuo Hung Chang (TW)
Hyungsuck Cho (KR)
Harald Fuchs (DE)
Toshio Fukuda (JP)
Shuxiang Guo (JP)
Jianguo Han (CN)
Huilin Jiang (CN)
Sukhan Lee (KR)
Tongbao Li (CN)

Wen-Jung Li (HK)
Song-Hao Liu (CN)
Bingheng Lu (CN)
Bill Milne (UK)
Brad Nelson (CH)
Markus Pessa (FI)
Guoquan Shi (CN)
Zhongqun Tian (CN)
Din Ping Tsai (TW)
Jia-Qi Wang (CN)
Yuelin Wang (CN)
Ning Xi (US)
Dong-Yol Yang (KR)

Program Committee:

Nitin Afzulpurkar (TH)
Gursel Alici (AU)
Wei Tech Ang (SG)
Fumihito Arai (JP)
Peter Bøggild (DK)
Karl Böhringer (US)
Stephanus Büttgenbach (DE)
Barthelemy Cagneau (FR)
Shoou-Jinn Chang (TW)
Weihai Chen (CN)
Yu-Bin Chen (TW)
Po-Wen Chiu (TW)
Andreas Dietzel (DE)
Stefan Dimov (UK)
Lixin Dong (US)
Xiangting Dong (CN)
Ruxu Du (HK)
Volkmar Eichhorn (DE)
Mady Elbahri (DE)
Chris Ewels (FR)
Fengzhou Fang (CN)
Antoine Ferreira (FR)
Michaël Gauthier (FR)
Changzhi Gu (CN)
Shuxiang Guo (JP)
Sinan Haliyo (FR)
Tawfique Hasan (UK)
Martin Hoffmann (DE)
Zhen Hu (CN)
Han Huang (AU)
Wenhao Huang (CN)
Futoshi Iwata (JP)
Pasi Kallio (FI)
Yoshiaki Kanamori (JP)
Jayantha Katupitiya (AU)
Beomjoon Kim (JP)
Viktor Koledov (RU)
Kostadin Kostadinov (BG)
Pierre Lambert (BE)
Richard Leach (UK)
Jeong-Soo Lee (KR)
Tie Li (CN)
Wen Li (US)
Wen-Jung Li (HK)
Yangmin Li (MO)
Jingquan Lin (CN)
Lianqing Liu (CN)
Qian Liu (CN)
Xianping Liu (UK)
Xinyu Liu (CA)
Paolo Lugli (DE)
Philippe Lutz (FR)
Sylvain Martel (CA)
Bill Milne (UK)
Reza Moheimani (AU)
Michael Molinari (FR)

SangJun Moon (KR)
Rakesh Murthy (US)
Cun-Zheng Ning (US)
Cagdas Onal (US)
Inkyu Park (KR)
Babak Parviz (US)
Changsi Peng (CN)
Yves-Alain Peter (CA)
Valentin Popov (DE)
Manel Puig-Vidal (ES)
Lehua Qi (CN)
Linmao Qian (CN)
Ivo Rangelow (DE)
Stéphane Régnier (FR)
Weibin Rong (CN)
Changhai Ru (CN)
Mariaana Savia (FI)
Wen-Pin Shih (TW)
Bijan Shirinzadeh (AU)
Albert Sill (DE)
Metin Sitti (US)
Zhengxun Song (CN)
Zhao Su (SG)
Daoheng Sun (CN)
Dong Sun (HK)
Yu Sun (CA)
Chunlei Tan (FI)
Carl Thompson (US)
Yanling Tian (CN)
Ivo Utke (CH)
Huiquan Wang (CN)
Qingkang Wang (CN)
Martin Wegener (DE)
Zhankun Weng (CN)
Thomas Wich (DE)
Wenming Xi (CN)
Hui Xie (CN)
Hongmei Xu (CN)
Ying Xu (CN)
John Yeow (CA)
Yuen Kuan Yong (AU)
Zheng You (CN)
Yong Yue (UK)
Martin Zdravil (CZ)
Alice Zhang (CN)
Jin Zhang (CN)
John Zhang (US)
Li Zhang (HK)
Qing Zhang (SG)
Xianmin Zhang (CN)
Xiyang Zhang (CN)
Yoko Yamashita (JP)
Yanliang Zhang (US)
Quan Zhou (FI)
Hanxing Zhu (UK)
Jingping Zhu (CN)

Local Committee Chairs:

Changhai Ru (CN)
Pengbo Wang (CN)
Junhua Zhou (CN)

Publication Chairs:

Albert Sill (DE)
Rencheng Liu (CN)

Finance Chair:

Guodong Chen (CN)

3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale, which will be held for the third time in Suzhou, China. **The ultimate ambition of this new conference series is to bridge the gap between nanosciences and engineering sciences**, aiming at emerging market and technology opportunities. The advanced technologies for manipulation, manufacturing and measurement on the 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 to IEEE Xplore database and indexed by Ei Compindex**, upon the approval by IEEE Conference Operations. Selected outstanding papers will be recommended for publication in the J of Micro-Bio Robotics, Int. J of Nanomanufacturing, Int. J of Intelligent Mechatronics and Robotics, the Open Mechanical Engineering J, Int. J of Optomechatronics, and other SCI/Ei journals.

Sponsors:

National Natural Science Foundation of China
Jilin Provincial Science & Technology Department, China
Soochow University, China
IEEE Nanotechnology Council (technically sponsored)
IFTOMM (technically sponsored)
University of Oldenburg, Germany
OFFIS, Oldenburg, Germany
Changchun University of Science and Technology, China

Topics:

Specific topics include, but are not limited to

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

High-profile keynote talks (20-25) 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: Suzhou is a famous tourist attraction, a city with a history of more than 2500 years. It is regarded as "Paradise on the Earth" or "Venice of the East" and renowned for the beautifully designed stone bridges, pagodas, and gardens. The unique water town Zhouzhuang is known for its ancient traditions, preserved buildings, and picturesque location. Occupying an area of over half a square km, over 60 percent of Zhouzhuang's buildings were designed during the Ming (1368-1644) and Qing (1644-1911) Dynasties.

Important Dates

| | |
|--|----------------------|
| Full paper submission | 15 April 2013 |
| Proposals for special sessions (5-6 papers) | 15 April 2013 |
| Notification of acceptance | 15 May 2013 |
| Final paper submission | 15 June 2013 |
| Advanced registration | 15 June 2013 |
| Registration for accepted papers | 15 June 2013 |



www.3M-NANO.org
3M-NANO@cust.edu.cn

