



IEEE Nanotechnology Council Conference Update

Winter 2019

Greetings,

In this Update:

- IEEE NANO 2019 CFP Deadline Reminder
- MARSS 2019 CFP Reminder
- IEEE NEMS 2019 Call for Participation
- TNANO Special Section/Issue on NMDC 2018 Deadline Extension
- IEEE NMDC 2019 Announcement
- 3M-NANO Call for Papers



<https://2019.ieeenano.org/>

Call for Paper/Abstract Submissions

Abstract Submission Deadline 15-February

We cordially invite you to submit your papers to the 19th IEEE International Conference on Nanotechnology (IEEE-NANO 2019) to be held at the Parisian Macau hotel in Macau, China, July 22 – 26, 2019.

Submit your latest research summary (a 2-page abstract in IEEE format) for review at the following site:
<https://2019.ieeenano.org/submission-for-review/>

The conference website (<https://2019.ieeenano.org/submission-for-review/>) is now open for accepting abstract/paper submission. Abstract submission deadline is **February 15, 2019**. Please visit the conference website under the tab “AUTHORS” for details regarding abstract and full paper preparation and submission. Authors should submit a **2-page abstract in IEEE format** for review; however, if you wish to participate in the best paper contests, you **MUST** submit a full paper (4 to 6 pages) for review.

IEEE-NANO 2019 will provide a forum for the exchange of ideas, interaction, networking and collaboration for research and development in nanotechnology with special attention to the latest advances in nanotechnology.

Over the years, IEEE-NANO has strived to feature high quality invited presentations from leaders and pioneers in the nanotechnology discipline. Please visit the conference website (<https://2019.ieeenano.org/>) for the list of invited speakers.

Technical Areas:

- DNA Nanotechnology
- Micro-to-nano-scale Bridging
- Nanobiology and Nanomedicine
- Nanoelectronics
- Nanomanufacturing and Nanofabrication
- Nano Robotics and Automation
- Nanomaterials
- Nanofluidics
- Nano-optics, Nano-optoelectronics and Nanophotonics
- Nanomagnetism
- Nano/Molecular Heat Transfer & Energy Conversion
- Nanoscale Communication and Networks
- Nano/Molecular Sensors, Actuators and Systems

Plenary Speakers:

We have already confirmed the following top engineers and scientists in *Nanotechnology* as *Plenary Speakers* for the conference:

- **Prof. Alex K.-Y. JEN**
Provost, City University of Hong Kong, Hong Kong, China
Fellow of AAAS, MRS, and ACS
- **Prof. Paul S. WEISS**
Distinguished Professor of California NanoSystems Institute and Departments of Chemistry & Biochemistry and Materials Science & Engineering, UCLA, Los Angeles, USA
Fellow of AAAS, ACS, AIMBE, and APS
Editor-in-Chief of ACS Nano
- **Prof. Pulickel Madhavapanicker AJAYAN**
Benjamin M. and Mary Greenwood Anderson Professor in Engineering, Rice University, USA
Fellow of AAAS
- **Dr. Meyya MEYYAPPAN**
Chief Scientist for Exploration Technology, NASA Ames Research Center, USA
Fellow of IEEE, ASME, IOP, AVS
- **Prof. Hui-Ming CHENG**
Professor, Tsinghua-Berkeley Shenzhen Institute, Tsinghua University, China
Member, Chinese Academy of Science
Editor-in-Chief, *Energy Storage Materials* (Elsevier)
- **Prof. Tianhong CUI**
Distinguished McKnight University Professor, University of Minnesota, USA
Executive Editor-in-Chief, *Light: Science & Applications* (Nature)

The Important Dates of IEEE-NANO 2019:

- Submission of two-page abstract: **February 15, 2019**

- Workshop/tutorial proposals: **February 15, 2019**
- Notification of acceptance: April 15, 2019
- Final submission: May 15, 2019
- Early bird registration deadline: June 15, 2019
- Conference: July 22-26, 2019

We look forward to seeing you at IEEE-NANO 2019 in Macau, China!!

General Chair: Lianqing Liu (Shenyang Institute of Automation, CAS, China)

Program Chair: Guangyong Li (University of Pittsburgh)

MARSS
International Conference on Manipulation,
Automation and Robotics at Small Scales



Helsinki, Finland
July 1 – 5, 2019

Submission Deadline 15-February

The 4th International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS) is held from 01-05 July 2019 in Helsinki, Finland

<http://marss-conference.org>

The conference is the flagship forum for cross-disciplinary R&D communities related to manipulation and automation (incl. measurement and characterization) at micro/nano scales as well as to all kinds of small scale robots and their applications.

We cordially invite you to attend and contribute to the conference. The conference offers several Keynote talks, about 12-15 plenary talks and parallel technical sessions (oral presentations only). Full or short papers on MARSS-related topics are invited <http://marss-conference.org/submission/paper-submission>. Presented full papers will be submitted for inclusion into the IEEE Xplore® digital library. Selected full papers can be published by Journal of Micro-Bio Robotics (Springer Nature). The expected number of participants is about 250.

Please consider organizing a Special Session at MARSS2019. You may check the website for details <http://marss-conference.org/submission/special-session-proposal/>. Organizer(s) of a Special session (at least 5 registered presentations required) will benefit from appreciation allowance.

Important dates:

Full paper submission (5-6 p) February 15, 2019 (no extension possible)

Short paper submission (1-3 p) May 15, 2019 (no extension possible)
Special session proposals February 15, 2019 (speakers with full paper submission)
May 15, 2019 (speakers without full paper submission)

Organizers:

- General Chairs: Quan Zhou (FI) and Pasi Kallio (FI),
- Program Chairs: Just Herder (NL), Ronald Pelrine (US), and Yuen Kuan Yong (AU).

We look forward to meeting you in Helsinki!

PS: MARSS2020 will be held from 13-17 July 2020 in Toronto, Canada <http://marss-conference.org/marss2020>



<https://iee-nems.org/2019/>

IEEE-NEMS 2019 CALL FOR PARTICIPATION

Important deadlines:

Deadline for Advanced Registration: **March 11, 2019**

Deadline for submission of Full Paper (4-6 pages): **March 15, 2019**

Latest updates on IEEE-NEMS 2019

- We have confirmed the following Special Issues for IEEE-NEMS 2019
 - *IEEE Transactions on Nanotechnology* (Letter Section)
 - *IET Micro&Nano Letters*
 - *Micromachines (MDPI)*
- We have confirmed the following **Plenary Speakers** plus more than **10 Keynote Speakers** and **50 Special Invites Speakers** for the conference (please visit <https://iee-nems.org/2019/invited-speakers/> for detailed information of the speakers)
 - Prof. **Toshio FUKUDA** (2019 President-Elect, IEEE)
 - Prof. **Zhong Lin WANG**, (Member of foreign member of the Chinese Academy of Sciences,

- Prof. **Fumihito ARAI** (VP, IEEE Robotics and Automation Society)
- Prof. **Yu SUN** (Member, Canadian Academy of Engineering)
- Prof. **Fabrizio LOMBARDI** (Editor-in-Chief, IEEE Trans. on Nanotechnology)
- Prof. **Wei WANG** (Deputy director, Institute of Microelectronics, Peking University)
- Prof. **Norman Chihnan TIEN** (Former Dean, Faculty of Engineering, HKU)

**IEEE Transactions on Nanotechnology
(TNANO) Special Section/Issue on the 13th
IEEE Nanotechnology Materials and
Devices Conference (IEEE 2018 NMDC)**



Submission deadline extended to 1-March

The nanotechnology revolution is founded upon the fascinating progress in nanoscale materials and devices. Researchers are contributing new ideas from a wide range of disciplines, including materials science, biology, biomedicine, engineering, physics, and chemistry. To make interesting research presented at the 13th IEEE 2018 Nanotechnology Materials and Devices Conference widely available, in expanded form and in one publication, IEEE Transactions on Nanotechnology (TNANO) is extending a Call For Papers for a Special Issue reflecting the scope of the conference.

Submitted manuscripts will undergo a full peer review process. Submissions are welcome, and all interested 2018 NMDC participants are encouraged to submit. Authors who are attendees are requested to significantly expand the previous conference version to contain substantial new technical material, as per TNANO and IEEE restrictions on duplicated publications and the competitive acceptance process. Manuscripts for the TNANO Special Issue/Section must be submitted on-line using the IEEE TNANO manuscript template and “Information for Authors”, via IEEE Manuscript Central <https://mc.manuscriptcentral.com/tnano>. On submission to TNANO, authors should select the “Special Issue” manuscript type instead of “Regular Paper.”

For details on submissions, see call for papers at <http://www.ieeenmdc.org/2018/10/call-for-papers-tnano-special-issue-on-nmdc-2018/>

Important Dates

- Submission of papers - extended: **1 March, 2019**
- Notification of first review results: **1 May, 2019**
- Submission of revised papers: **15 June, 2019**
- Notification of final review results: **1 August, 2019.**



**IEEE NMDC 2019 14th IEEE Nanotechnology Materials and Devices Conference
Stockholm, Sweden October 27-30 2019**
www.ieeenmdc.org

Watch for Call for Papers Announcement

IEEE Nanotechnology Council's NMDC 2019 conference will bring together key researchers from every sector in the nanotechnology research field, with a special focus on Materials and Devices. Conference papers will be published in IEEE Xplore. Authors of selected papers will be invited to submit their extended article version to: IEEE Transactions on Nanotechnology, and IEEE Nanotechnology Magazine. Best paper awards will be given in several categories at the conference banquet, to be held at the "Vasa museum" (17th century ship). Special sessions on focused or "hot" topics may be suggested.

The topics include but are not limited to:

- Nanoelectronics and nanophotonics:
 - New materials and devices
 - Low-D structures: Nanowires, quantum dots etc
 - Metamaterials and plasmonic devices
 - Quantum technology and devices
 - Nano-magnetic structures and devices
 - Interconnects, packaging and reliability of nanodevices
- Special applications:
 - MEMS/NEMS and sensors
 - Materials and devices for energy harvesting and storage
 - Biomedical applications including bio-sensing
 - Organic semiconductor materials and devices

- Synthesis, fabrication and modelling:
Synthesis and fabrication of nanostructures
Modeling and simulation of nanomaterials, structures, and devices
Standards and safety issues of nanotechnology
- Emerging topics:
2D related materials and devices
DNA and wood nanotechnology
Other emerging topics

Tentative dates (2019):

- Abstract deadline: June 1
- Session proposals: June 1
- Authors notification: August 1
- Full paper submission: September 1
- Early registration: September 1

Organizers:

General chair: Jan Linnros, KTH, Sweden
 Program chair: Ilya Sychugov, KTH, Sweden
 Publication chair: Apurba Dev, Uppsala Univ., Sweden

Venue: The Brewery Conference Centre, Stockholm
 Hosted by: KTH Royal Institute of Technology



3M-NANO Call for Papers

<http://3m-nano.org/2019/>

3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; IEEE 3M-NANO 2019 will be held in August in Zhenjiang, 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 Compindex.** 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.

Topics: Specific topics include, but are not limited to

- Nanohandling robots and systems
- Nanofabrication and nanoassembly
- Nanometrology and nanocharacterization
- Nanopositioning and nanomanipulation
- Nanosensing and microscopy
- AFM and SEM for nanohandling
- Process automation at nanoscale
- Self-assembly at nanoscale
- Nanoscale robotics
- Nanolithography
- Nanoenergy
- Nanomaterials and applications
- Graphene and applications
- Nanoparticles, nanowires and nanotubes
- Nanoelectronics and nanomagnetics
- Nanophotonics and plasmonics
- Nanomechanics and nanomechatronics
- NEMS and their applications
- Nanofluidics
- DNA detection and sequencing
- Bio-nano devices and applications
- Bio-nanoimaging and nanomeasurement

Important Dates

- Full paper submission 1 May 2019
- Proposals for special sessions (5-6 papers) 1 May 2019
- Notification of acceptance 15 June 2019
- Final paper submission 15 July 2019
- Advanced registration 15 July 2019
- Registration for accepted papers 15 July 2019

Organizers:

- Jiangsu University, China
- Aarhus University, Denmark
- 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