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Keep Up With Us



Editor's Note

I am delighted to bring you the first newsletter of 2019! This issue brings you the latest updates and activities in the IEEE-NTC community. I am also extremely proud to share that the IEEE NTC is currently the largest IEEE council with more than 7000 members of established and young researchers. I hope you enjoy this issue and do let us know if there is any topic you'd like to see covered in the future issue.

Jr-Hau He

King Abdullah University of Science and Technology
EiC Newsletter & Web Content

Council News

IEEE Nanotechnology Council Distinguished Lecturers for 2019

The IEEE Nanotechnology Council (NTC) has appointed its Distinguished Lecturers for 2019. Talks by NTC Distinguished Lecturers can be requested by IEEE student branches; NTC or member Society Chapters; NTC and member Society Conferences; conferences of other IEEE Societies not members of the NTC for major plenary/keynote (based on availability of funding). Please contact the presenter directly to arrange for a presentation. The talk will also

New lecturers for 2019:

Jr-Hau He, King Abdullah University of Science and Technology, Jeddah, Saudi Arabia; "Toward Highly Efficient Solar Water Splitting: A Concurrent Electrical, Optical, and Catalytic Design"

Chenzhong Li, National Science Foundation, Alexandria, VA, USA

1. "Biomedical Devices for Nano-Theranostics"
2. "Bioelectronic and Biosensors-From Cell on a Chip to Point of Care Testings"
3. "NanoBiosensing Research-Challenges, Opportunities, and Perspectives From USA National Science Foundations"

Seiji Samukawa, Institute of Fluid Science, Tohoku University, Sendai, Japan; "Creating Green Nanostructures and Nanomaterials for Advanced Energy Nanodevices"

Subramanian Sankaranarayanan, Argonne National Laboratory, Argonne, IL USA; "Bridging the electronic, atomistic and mesoscopic scales in materials modeling using machine learning"

Prof. Ved Ram Singh, National Physical Laboratory (NPL), New Delhi, India

1. "Nano-sensor technology with IoT"
2. "Advanced nanosensors and systems for u-health care"
3. "Nano-Cancer Technology: New Diagnostic and Therapeutic Devices"

Dmitri Strukov, ECE Department, UC Santa Barbara, Santa Barbara, CA USA; "Recent Results and Future Prospects for Mixed-Signal Neuromorphic Inference Accelerators"

For a full list of appointed Distinguished Lecturers, click [here](#).

Awards & Recognitions

2019 NTC Award Winners Announced

The IEEE Nanotechnology Council announces its 2019 Award Winners. Awards will be presented at its IEEE Conference on Nanotechnology (IEEE-NANO 2019) which will be held 22-26 July 2019, in the Parisian Macao, in Macau, China.

awards, visit the [NTC Awards page](#).

Early Career Award

Prof. Han Wang

University of California

"For his key contributions to the study of black phosphorus and other two-dimensional materials, and their electronic and photonic applications"



Pioneer Award

Prof. Paul Weiss

University of California

"For exploring the ultimate limits of miniaturization and function and championing nanotechnology worldwide"



Distinguished Service Award

Prof. Fabrizio Lombardi

Northeastern University

"For exceptional devotion to the duties and outstanding performance as the Editor-In-Chief of IEEE Transactions on Nanotechnology"



NTC Congratulates New IEEE Fellows

Hearty congratulations to the following outstanding members of NTC community on being elevated (effective Jan 1, 2019) to the rank of Fellow of IEEE!

Pei-Yu Chiou, University of California at Los Angeles

for contributions to optofluidics for high throughput single cell manipulation

Roger Lake, University of California Riverside

for contributions to quantum mechanical electronic device modeling

Hark Hoe Tan, Australian National University

Conference Highlights

IEEE NMDC 2019 - Call for Papers



IEEE NMDC 2019
Stockholm, Sweden | 27-30 October
<https://www.nmdc2019.conf.kth.se/>

Mark your calendars for the 14th IEEE Nanotechnology Materials and Device Conference in Stockholm, Sweden. 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. [Read More](#)

Deadlines

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

IEEE-NANO 2019



IEEE-NANO 2019
Macau SAR, China | 22-26 July

2019) will be held at the Parisian Macau hotel in Macau, China, 22 – 26 July 2019.

The regular contributed paper submissions to the conference were closed on 25 March 2019. If you have missed the deadline but still plan to attend the conference, you can submit your paper/abstract as a **late news paper or as a presentation** without seeking publication submission. Please directly visit here for your submission: <http://nano.papercept.net/conferences/scripts/start.pl>

Late news papers have the same requirement as regular contributed papers but will be reviewed in a postponed process. The submission deadline for the late news paper is **30 April 2019**.

Presentation without seeking publication submission is created for those who want to give a presentation at the conference either orally or by poster but without intention to publish their work in the conference proceedings. The submission deadline for the presentation without seeking publication is **30 May 2019**.

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

Yours sincerely,

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

Program Chair: Guangyong Li (University of Pittsburgh)

For full details, visit <https://2019.ieeenano.org>.

MARSS 2019



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

Helsinki, Finland | 1-5 July

The 4th International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS) is held from **1 - 5 July 2019 in Helsinki, Finland**. The conference is the flagship forum for cross-disciplinary R&D communities related to **manipulation and automation (incl. measurement and**

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). Short papers on MARSS-related topics are invited. The expected number of participants is about 250.

Please consider organizing a Special Session at MARSS2019. You may check the website for **details**. Organizer(s) of a Special session (at least 5 registered presentations required) will benefit from **appreciation allowance**.

Short paper submission (1-3 pages): 15 May 2019
Special session proposals: 15 May 2019

We look forward to meeting you in Helsinki!

Early bird registration ends on 15 April 2019! [Read More](#)

SAVE THE DATE: [MARSS2020](#) will be held from 13-17 July 2020 in Toronto, Canada

IEEE 3M-NANO2019



IEEE 3M-NANO2019 Zhenjiang, China | 4-8 August

Join us in Zhenjiang, China for 3M-NANO, the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale. The ultimate ambition of this conference series is to bridge the gap between nanosciences and engineering sciences, aiming at technology opportunities and new markets.

Important Dates:

Full paper submission 1 May 2019 Final paper submission 15 July 2019

Proposals for special sessions Advanced registration

Notification of acceptance
15 June 2019

Registration for accepted papers
15 July 2019

More details can be found [here](#).

IEEE NMDC 2018



IEEE NMDC 2018 Report Portland, OR | 14-17 October 2018

The 2018 IEEE Nano Materials & Devices Conference (NMDC), sponsored by the IEEE Nanotechnology Council (NTC), was held on October 14th to 17th in Portland, Oregon. There were a total of 172 attendees from 22 countries, including 47 students, 115 “university” and 57 “other.” [Read More](#)

Call for Proposals for Future IEEE NTC Sponsored Conference Sites

The IEEE Nanotechnology Council (NTC) is calling for proposals for future sites for IEEE NANO 2022 and for IEEE NMDC 2021.

Deadline 30 June 2019

IEEE NANO 2022:

The annual IEEE International Conference on Nanotechnology is the NTC’s flagship event. The conference scope covers a wide range in nanoscience and technology. In particular, it covers nanofabrication, nanomanufacturing, nanomaterials, nanobiomedicine, nanoenergy, nanoplasmonics, nanoelectronics, nanosensors and nanoactuators, characterisation and modelling of nano structures and devices. Research in both experiments and simulation is reported. Industry is encouraged to present its research projects. NANO 2019 and 2020 will be held in Macau, China; Montreal Canada; respectively. We are now seeking proposals for **NANO 2022** which is expected to run in IEEE Regions 10 (Asia). NANO should be run at the end of

For conference history, visit <https://ieeenano.org/ieee-nano-conferences/>.

Early indication of an intention to submit a proposal is strongly recommended. Candidates for NANO 2022 will be expected to present an informal 5-10 minute "Proposal in preparation" at the NTC Excom and Adcom meetings at NANO 2019 in Macau, China. (The presentation can be done remotely, on-line.)

Proposal deadline:
NANO 2022: 31 May 2019

IEEE NMDC 2021:

The Nanotechnology Materials and Devices Conference (NMDC) aims to develop critical assessment of existing work and future directions in nanotechnology research from every sector in the nanotechnology research field, with a special focus on materials and devices. NMDC 2019 will be held in Stockholm, Sweden. Past locations of the NMDC have been in Asia (Korea, Japan, Taiwan, Singapore), USA (California, Michigan, Hawaii, Alaska, Portland), and Europe (Sicily, France).

We are now seeking proposals for **IEEE NMDC 2021** which is expected to run in IEEE Regions 1-7 (Americas), typically between mid-September and mid-October.

For conference history, visit <http://www.ieeenmdc.org/>.

Early indication of an intention to submit a proposal is strongly recommended. Candidates for NMDC 2021 will be expected to present an informal 5-10 minute "Proposal in preparation" at the NTC Excom and Adcom meetings at NANO 2019 in Macau, China. (The presentation can be done remotely, on-line.)

Proposal deadline:
NMDC 2021: 31 May 2019

Formal proposals must be e-mailed prior to the appropriate deadline to: NTC Vice-President for Conferences [Lixin Dong](#), with copies to [Ed Perkins](#), NTC Secretary.

For more information, visit [Call for Conference Proposals](#).