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## Newsletter | February 2026

### Editor's Note

Welcome to the February 2026 issue of the Nanotechnology Council newsletter. This issue brings you the latest updates and activities in the IEEE-NTC community. We hope you enjoy it and do let us know if there is any topic you'd like to see covered in the future. All future content submissions to the newsletter should be sent to the editors: Ke Chen and Yijun Cui.



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### Contents

***PRESIDENT'S MESSAGE***

***BREAKING NEWS***

***YOUNG PROFESSIONALS***

***CONFERENCES***

***PUBLICATIONS***

## PRESIDENT'S MESSAGE



Dear NTC Community,

I am pleased to welcome you as the 2026 President of the IEEE Nanotechnology Council (NTC)! The Nanotechnology Council has existed for more than 20 years and is among the fastest-growing units of the IEEE in recent years.

It currently has over 50,000 members worldwide NTC is a multi-disciplinary group that develops theory, design, nanotechnology advances and their scientific, engineering, and industrial applications. It has its roots in the Pioneer era of nanotechnology and owes its success to the enthusiastic work of many volunteers and the tireless effort of its Leadership.

NTC provides outstanding opportunities to stay technically engaged through our highly ranked publications and conferences and possibility to create a network with like-minded colleagues from all over the world. It has one of the most dynamic Young Professional platforms, which together with the educational activities offers the prospect to shape your professional career and achieve your goals. It also provides many opportunities to contribute as a volunteer to its continued growth and expansion, all for the benefit of our community. There are no membership requirements to join and participate in the NTC initiatives. NTC is free and open to everyone!

I encourage you to follow the journals sponsored by the NTC and to submit your latest achievements in the field of nanotechnology. Attending our perfectly organized conferences has proven to be a memorable experience and we look forward to meeting you there. Don't forget to check the NTC e-Newsletter, published every two months, and to connect with us through our various social networks. More details on the NTC can be found at <https://ieeenano.org/>.

Please do not hesitate to contact me with suggestions and feedback. You can reach me by email at [kremena.makasheva@laplace.univ-tlse.fr](mailto:kremena.makasheva@laplace.univ-tlse.fr).

Kremena Makasheva  
President, IEEE Nanotechnology Council

## BREAKING NEWS

## Awards Nominations due **1 March 2026**

The Nanotechnology Council (NTC) is pleased to offer these **new awards** (starting in 2023):

- Best PhD Thesis Award in Nanotechnology (publication)
- Test of Time Publication Award (e.g. over 10-25 years) (publication)
- Technical Achievement Award(s) (Technical Committees)
- Nanotechnology Magazine Best-Paper Award (publication)
- Best Paper Award for the IEEE Transactions on Nanotechnology (publication)

The IEEE Nanotechnology Council (NTC) is soliciting nominations for these Awards. See the **Awards page** for more information on all the NTC's awards. To view the full detailed listing of each award please visit the **Awards nominations page**. Awards are presented at the IEEE-NANO conference.

Nominations for these awards are due on **1 March 2026**. Nominators should utilize the forms associated with each award description found on the **website**. Please make sure that nominators and references specifically address contributions, impact, and evidence related to the Basis for Judgment associated with each award.

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### **Best PhD Thesis Award in Nanotechnology**

**Description:** This annual award recognizes a PhD thesis in nanotechnology with remarkable technology innovation or excellence which should have led to publications in NTC venues including journals and conferences. Any member with no conflict of interest (i.e. advisor-advisee relationship) with any member of the NTC ExCom, NTC Education Committee, or NTC Technical Committees can submit a nomination to the Award Committee for this award. Self-nominations are not allowed. Requires three references.

### **Best-Paper Award for the *IEEE Nanotechnology Magazine***

**Description:** This annual award recognizes a highly influential and impactful article of the highest quality published in the *IEEE Nanotechnology Magazine* (INM) in the preceding 2 calendar years. (For example, the 2023 award recognizes a paper published in 2021 or 2022.) **Note: Nominations accepted from any current or past member of the INM Editorial Board within the last 3 years ONLY.** No self-nominations. Requires three references.

### **Test of Time Publication Award**

**Description:** This annual award recognizes a highly influential, widely visible, and impactful article of the highest quality which appeared in any Nanotechnology Council managed journal, magazine, or financially sponsored conference proceedings between 10 years and 25 years ago. **Note: Nominations from any Editorial Board member of any NTC publication within the last 25 years ONLY.** No self-nominations. Requires three reference letters.

### **Technical Achievement Award(s)**

**Description:** This annual award recognizes individuals with outstanding and innovative contributions to the different areas of nanotechnology that are represented by technical committees (TCs) as organizational entities of the Nanotechnology Council (NTC), usually within the past 10 and not more than 15 years. **Note: Nominations from any member of the NTC Technical Activities Committee within the last three years (including the nomination year) ONLY.** No self-nominations. Up to 3 awards will be presented each year. Requires three reference letters.

### **Best Paper Award for the IEEE Transactions on Nanotechnology**

**Description:** An annual best paper award to recognize a paper published in the IEEE Transactions on Nanotechnology (T-NANO) that is remarkable by its novelty, scientific merit, and potential impact. This award will encourage submission of excellent papers to the journal, and reward outstanding submissions. **Note: Nominations by members of the T-NANO Editorial Board ONLY.**

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### **IEEE NTC 2026 Seasonal Schools on Nanotechnology Call for Proposals**

From 1 January to 31 October, the NTC is open to proposals for 2026 Seasonal School on Nanotechnology which should be organized along some of the themes typically covered in the call for abstracts of the yearly flagship IEEE Nanotechnology Conference, including a wide range of nanoscience and nanotechnology topics.

The IEEE Seasonal School on Nanotechnology should be geared towards senior undergraduates, graduate students, post-docs, and researchers and practitioners who could deepen and broaden their skills in nanoscience and nanotechnology. It is expected that the attendance at the school should be around 50 to 100 participants.

**Dates and Length:** The IEEE Seasonal School on Nanotechnology will be held in any month from February to November of 2026. The length of seasonal school has typically been a minimum of 3 days to 1 week.

The date of the school is not restricted to the summer season and can be organized and held any time of the year, until November 2026.

Please submit your proposal using the RFP 2026 Summer School on this **form**. Questions regarding the submission process can be directed to the Summer School Subcommittee Chair, Prof. Georgios Sirakoulis at **[gsirak@ee.duth.gr](mailto:gsirak@ee.duth.gr)**.

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### **Announcing New EiCs for NTC Publications**

The following are the new EiCs for NTC journals:

IEEE Transactions on Nanotechnology (TNANO): Georgios Ch Sirakoulis [Democritus University of Thrace, Greece] — Start date: 1 January 2026

IEEE Nanotechnology Magazine (INM): Jin-Woo Kim [University of Arkansas, USA] — Start date: 1 January 2026

USAJ — Start date: 1 January 2020

IEEE Open Journal of Nanotechnology (OJ-NANO): Lixin Dong [City University of Hong Kong, China] — Start date: 1 March 2026

IEEE Transactions on NanoBioscience (TNB): Kin Fong Lei [Chang Gung University, Taiwan] — Start date: 1 January 2026

Congratulations to the new EiCs.

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## **IEEE NTC TC10 Modeling & Simulation March Webinar**

**Title:** Electrostatic Modelling of Molecules for Computing at the Molecular Scale

**Date/Time:** 10 March 2026, 17:00 Rome/Central European Time (16:00 UK, 12:00 New York, 09:00 California)

**Speaker:** Dr. Yuri Ardesi, Assistant Professor at Politecnico di Torino, Dept. of Electronics and Telecommunications

**Register here** to receive meeting link.

### **Abstract:**

Molecular electronics represents a promising framework for computation, memory, and sensing, where device behaviour is directly governed by molecular-scale physical phenomena. Accurate modelling of molecules is therefore essential to understand and predict their functional properties, yet the theoretical and computational tools required for this task are rarely addressed in standard Electronics studies. This seminar focuses on the modelling of molecules employed in electronics applications, discussing how molecular structure, charge distribution, and intermolecular interactions determine the electrostatic behaviour of molecular ensembles, as addressed through the SCERPA tool. The talk spans physical descriptions of isolated molecules as well as effective models suitable for circuit-level analysis. We discuss the accuracy of the proposed modelling approach in capturing specific physical effects, such as the presence of multiple conformers and time-dependent variations, and we validate the model against molecular ensembles simulated using Density Functional Theory (DFT), also demonstrating recent results in optimizing DFT calculation through SCERPA-mediated analysis. Field-Coupling Nanocomputing is presented as a representative case study to illustrate how molecular models can be progressively abstracted and integrated into the design of logic cells and circuits. Particular attention is devoted to the relationship between molecular physics and logical functionality, highlighting how molecular topology and coupling mechanisms eventually influence information processing.

### **Bio:**

Dr. Yuri Ardesi is an Assistant Professor in the Department of Electronics and Telecommunications at Politecnico di Torino (Turin, Italy), where he earned his Ph.D. in Electrical, Electronics, and Communications Engineering in 2022. His main research interests include molecular technologies for single-molecule sensing and molecular computing, with a particular focus on molecular Field-Coupled Nanocomputing and sustainable electronics. Since 2024, he has been the lecturer of Nanoelectronic Systems and, since 2019,

the co-lecturer for Digital Electronics. He serves as an Associate Editor for the Springer Journal of Computational Electronics. In 2021, he chaired the IEEE Student Branch at Politecnico di Torino.

## YOUNG PROFESSIONALS

### Call for NTC YP Ambassadors

The IEEE Nanotechnology Council (NTC) Young Professionals (YPs) and the Vice-President for Educational Activities, supported by the ExCom, have established a new program called NTC YPs AMBASSADORS. This program has the objective of inspiring and informing NTC YPs on a variety of topics (e.g., technical, nontechnical) to enhance their interest and engagement in the field of nanoscience and nanotechnology. The NTC YPs ambassadors will deliver talks at various Chapters/Sections "on-demand" and in a virtual modality.

#### ***Eligibility & Applications:***

The call for nominations is starting from **1 November** with a deadline for **1 March 2026**.

The candidate must:

- be an IEEE member
- NTC participant
- belong to the IEEE YP
- have about 5 years or more experience reflecting professional maturity (e.g, university, professional, volunteering, etc.)

The ambassadors are selected for a term of one year. The appointment starts from **1 January 2026**. All new ambassadors ***are required to give at least two talks during their tenure of one year.***

For the application the following details are needed:

- i) a resume or CV (two pg. max.);
- ii) the title(s) of the maximum 2 talks;
- iii) a brief writeup on the benefits of the talk proposed to the NTC YPs community;
- iv) a 5-min short video sample of any proposed talk.

The applications must be sent to **[matteobrunolodi@ieee.org](mailto:matteobrunolodi@ieee.org)**

***Evaluation:*** a dedicated and specific Subcommittee will manage the nomination and selection process of the NTC YPs AMBASSADORS and provide the results that will be announced both on the NTC Website (**<https://ieeenano.org/>**) and on the TryNano webpage (**<https://trynano.org/it/>**)."

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## **NTC Young Professionals Update**

Five Regional NTC YP LinkedIn pages have been established and are timely updated. The regional coordinators established cooperation with the regional NTC conference organizers in order to support and ensure the presence of young professionals.

NTC YP LinkedIn:

- **Region 7 (Canada)**
- **Region 9 (Latin America)**
- **NTC YP India**
- **Region 8 (Africa, Europe, Middle East)**
- **Region 10 (Asia and Pacific)**



**CONFERENCES**

Included in this section:

- **IEEE-NEMS 2026 – Call for Papers**
- **IEEE NANO 2026 – Call for Papers**
- **MARSS 2026**
- **IEEE NANOMED 2026 - Call for Papers**
- **3M-NANO 2026 - Call for Papers**

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## **IEEE-NEMS 2026 – Call for Papers**



**2026 IEEE 21st International Conference on Nano/Micro Engineered and Molecular Systems will be held on 17-21 April 2026 in Chengdu, China.**

IEEE-NEMS is a premier conference series sponsored by the IEEE Nanotechnology Council focusing on the promotion of advanced research areas related to M/NEMS, nanotechnology, and molecular technology. Prior conferences were held in Zhuhai (2025), Kyoto (2024), Jeju (2023), Virtually (2022), Xiamen (2021), Virtually (2020), Bangkok (2019), Singapore (2018), Los Angeles (2017), Matsushima Bay (2016), Xi'an (2015), Hawaii (2014), Suzhou (2013), Kyoto (2012), Kaohsiung (2011), Xiamen (2010), Shenzhen (2009), Hainan Island (2008), Bangkok (2007), and Zhuhai (2006).

### **Important Dates:**

Late-News Submission Deadline: 28 February 2026

Early Registration Deadline: 10 March 2026

Presentation-Only Submission Deadline: 10 March 2026

Final Paper Deadline: 10 March 2026

**Website URL: <https://ieeenu2026.org/>**

Date: 17-21 April 2026

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## **IEEE NANO 2026 – Call for Papers**



Since founded in 2001, IEEE-NANO is the flagship conference series of the IEEE Nanotechnology Council (NTC). It promotes advanced research in nanoscience and nanotechnology. Recent conferences were held in Washington DC (USA, 2025), Gijón (Spain, 2024), Jeju Island (Korea, 2023),

Palma de Mallorca (Spain, 2022), Montreal (Canada, 2021), Virtual (2020), Macao (China, 2019), Cork (Ireland, 2018), Pittsburgh (USA, 2017), Sendai (Japan, 2016), Rome (Italy, 2015), and Toronto (Canada, 2014).

The 26th IEEE International Conference on Nanotechnology (IEEE-NANO 2026) will be held from 5-8 July 2026, in Nanjing, China. We are looking forward to your visit in Nanjing, China.

**Important Dates:**

Full Paper Submission: 1 March 2026  
Full Paper Decisions: 10 April 2026  
Abstract Only Submission: 10 April 2026  
Abstract Only Decisions: 1 May 2026

**Website URL:** <https://2026.ieeenano.org/>

Date: 5-8 July 2026

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**Manipulation, Automation and Robotics at Small Scales**



The 9th Int. Conference on Manipulation, Automation and Robotics at Small Scales (MARSS) will be held on 27-31 July 2026, at Zhejiang University in Hangzhou, China <https://marss-conference.org>. General Chairs: Huiquan Wang (CN) and Zhonghe Jin (CN). MARSS is the flagship forum for cross-disciplinary R&D communities related to manipulation, automation, measurement and characterization at micro/nano scales as well as all kinds of small size robots (nm - cm) and their applications. The conference is technically supported by IEEE-NTC and IEEE-RAS.

We cordially invite you to attend and contribute to the conference. MARSS2026 will feature 11 plenary talks and 35-40 technical sessions (oral presentations only). Full papers (5-6 pages) or short papers (1-3 pages) on MARSS-related topics are invited. Presented full papers will be submitted for inclusion into the IEEE *Xplore*® digital library and contest for several Best Paper Awards. Selected full papers will be recommended to *Journal of Micro-Bio Robotics* (Springer Nature) for a Special Issue. You may also consider organizing a Special Session at **MARSS2026**.

Sergej Fatikow / MARSS, Founding Chair  
Heiko Meyer, Yuning Lei / MARSS, Publicity Chairs  
Div. Microrobotics & Control Eng, University of Oldenburg, Germany

**Important Dates:**

Full paper submissions: 15 April 2026 (no extension possible!).  
Short paper submission: 10 June 2026

**Website URL:** <https://marss-conference.org>

Date: 27-31 July 2026

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## IEEE NANOMED 2026 – Call for Papers



IEEE-NANOMED is one of the premier annual events organized by the IEEE Nanotechnology Council (NTC) to bring together physicians, scientists, and engineers from all over the world and every sector of academia and industry, working on advancing basic and clinical research in medical and biological sciences using nano/molecular medicine and engineering methods. At IEEE-NANOMED, practitioners will see nano/molecular medicine at work in both their own and related fields, from essential and advanced scientific and engineering research and theory to translational and clinical research.

### **Important Dates:**

Two-Page Abstract: 15 July 2026

Notification of Acceptance: 10 September 2026

Full Paper Submission Deadline: 20 October 2026

Early Bird Registration Deadline: 30 September 2026

**Website URL:** <https://iee-nanomed.org/2026/>

Date: 29 November - 2 December 2026

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## 3M-NANO 2026 – Call for Papers



3M-NANO is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale. It will be held on 27-31 July 2026 in Suzhou, 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.

### Important Dates:

Full paper submission: 1 May 2026

Proposals for special sessions (5-6 papers): 1 May 2026

Notification of acceptance: 10 June 2026

Final paper submission: 1 July 2026

Advanced registration (Early bird discount): 15 July 2026

Registration for accepted papers: 15 July 2026

**Website URL:** [www.3M-NANO.org](http://www.3M-NANO.org)

Date: 29 November - 2 December 2026

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## PUBLICATIONS

## ***IEEE Transactions on Nanotechnology***

View the **full current issue of IEEE T-NANO**.

For additional information, visit the **IEEE Xplore website**.

To find how to submit to T-NANO, **click here**.

T-NANO, VOLUME 25



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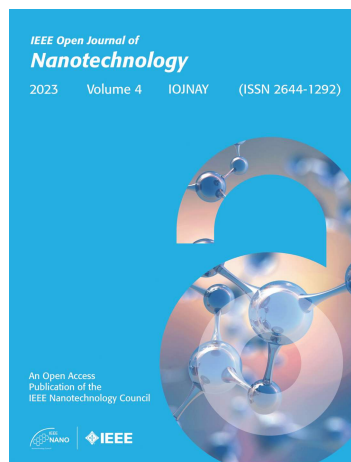
## ***IEEE Open Journal of Nanotechnology***

View the **full current issue of IEEE OJ-NANO**.

For additional information, visit the **IEEE Xplore website**.

To find how to submit to OJ-NANO, **click here**.

OJ-NANO, VOLUME 7



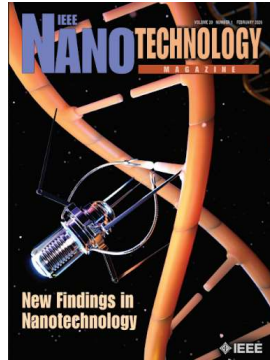
## ***IEEE Nanotechnology Magazine***

View the **full current issue of IEEE INM**.

For additional information, visit the **IEEE Xplore website**.

For information on submitting to INM, **click here**.

INM, VOLUME 20, NO. 1



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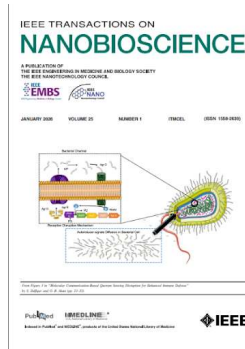
## ***IEEE Transactions on NanoBioscience***

View the **full current issue of IEEE T-NB**.

For additional information, visit the **IEEE Xplore website**.

To find how to submit to T-NB, **click here**.

T-NB, VOLUME 25, NO. 1



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## **LIST OF NANOTECHNOLOGY COUNCIL OFFICERS (2026)**

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**Past-President**



**Jin-Woo Kim**

**Senior Past President**



**Fabrizio Lombardi**

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**John Yeow**

**Vice-President-elect for  
Conference**



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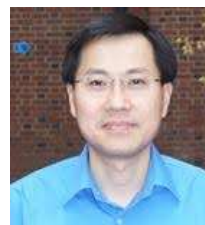
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**IEEE Future Tech Explorers™ Challenge**



**Educational Resources to Inspire the Next Generation. Earn the Prize.**

Are you ready to turn today's cutting-edge tech into tomorrow's playground? IEEE Future Tech Explorers™ is officially open with the chance to win!

For this challenge, we're looking for visionary individuals and teams of IEEE members, educators, designers and creators to bridge the gap between "complex engineering and technology" and "kid-friendly cool." Whether it's AI, quantum technologies, computer networking, radio communications, or electronics, we want your most interactive ideas to spark a lifelong passion for engineering in students aged 5–17.

**Ready to Inspire? [iee.org/ieee-future-tech-explorers-challenge](http://iee.org/ieee-future-tech-explorers-challenge)**



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