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Newsletter | April 2026

Editor's Note

Welcome to the April 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.



Yijun Cui

Nanjing University of Aeronautics
and Astronautics
Nanjing, China



Ke Chen

Nanjing University of Aeronautics
and Astronautics
Nanjing, China

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BREAKING NEWS

Call for 2026 Nominations – IEEE Nanotechnology Council

The IEEE Nanotechnology Council (NTC) invites nominations for the following elected positions:

Open Positions

1. President-elect (one year term, 2027)
2. VP-elect for Educational Activities (3-years: elect 2027; VP 2028-2029)
3. VP-elect for Publications (3-years: elect 2027; VP 2028-2029)
4. VP-elect for Technical Activities (3-years: elect 2027; VP 2028-2029)
5. Member-at-Large (MAL) (up to 3) (2 years, 2027-2028)

Unless otherwise noted, all positions begin on 1 January 2027.

Nomination Requirements

- A statement from the candidate
- A biographical sketch (in IEEE format)

Submission Deadline: 15 May 2026 (midnight US PT)

Nomination Materials

- A position description and nomination form are in the **NTC Nomination Package**.
- Duties for the positions are described in the Nomination package and also in the **NTC Constitution** and the **NTC Bylaws**.

Eligibility

Officer candidates are nominated from:

- Current AdCom members, or
- Past Adcom members who have served as Member Society-appointed or ex-officio AdCom members within the previous five years.

Review the AdCom roster at <https://ieeenano.org/about/advisory-committee/>.

According to the 2025 Governing Documents update:

- VP positions are renewable one-time.
- Total time in office should not exceed twelve years (4 terms) except for the VP for Finances.

MAL candidates serve as members of the AdCom and are to provide the Council with independent insights and positions that are in support of the global nanotechnology community, especially those involved in independent research, development and commercialization, to represent the Council positions and statements as needed to these global constituencies and to complete the specific tasks identified in their candidacy documents. MAL are NOT required to be members of Member Societies.

Additional Rules

- Nominations may be made only by AdCom members (Society representatives and ex-officio; see website AdCom Roster).

- An individual may not serve concurrently as both a Council officer and a Council Member Society representative.

Submission Instructions

Please submit nominations by email to:

Jin-Woo Kim, NTC Nominations Committee Chair

Email: jwkim@uark.edu

Election Details

- Election Date: July 5, 2026
- Location: NTC AdCom Meeting, Nanjing, China
- Candidate Requirement: Candidates must attend meeting either in person or virtually.

Call for Nomination for the Next TCASAI Editor-in-Chief

The IEEE Circuits and Systems Society (CASS) invites nominations for the position of Editor-in-Chief (EiC) of the IEEE Transactions on Circuits and Systems for Artificial Intelligence.

TCASAI publishes contributions related to circuits and systems for artificial intelligence, including circuit and electronic system design, implementation, and demonstration.

We are currently seeking nominations and applications for the position of Editor-in-Chief for the 2027–2028 term.

Self-nominations are encouraged and the nominee must be a member in good standing of the IEEE and of one of the three sponsoring societies. Information on IEEE policies and guidelines regarding EiC responsibilities and duties can be found in Section 2.4 of IEEE Publication Services and Products Board Operations Manual.

Nominee Qualifications

- Desirable qualities of the candidates include established, excellent publication records in TCASAI or related journals; preferred prior experience as an Editorial Board member; and unquestionable leadership, integrity, and ethical standards.
- To attract high-quality submissions, the EiC should be a recognized leader in their field with a deep understanding of the research community across academia, industry, and government laboratories. The EiC must also demonstrate awareness of emerging research directions and possess the administrative skills needed to manage the editorial process effectively.
- Strong interpersonal and leadership skills are essential to maintain productive relationships with authors, editors, reviewers, and IEEE staff, as well as to recruit respected experts to serve on the Editorial Board.

Application Materials

Applications or nominations must include:

- An application/nomination letter
- A complete curriculum vitae (CV)
- A personal statement summarizing their vision and plans for TCASAI
- A letter from their employer indicating support for the EiC activity

The target start date for the new EiC is anticipated to be 1 January 2027.

Nomination Deadline: **10 May 2026**

EiC Nomination Form

NANO YOUTH DAY

Shape the Future of Nano in Nanjing! | IEEE NANO 2026 Youth Day

Ready to jumpstart your career in nanotechnology?

Join us on 5 July 2026, for the **NANO Youth Day**, a premier event hosted within the prestigious **IEEE NANO 2026** conference. This isn't just another seminar, it's a launchpad for the next generation of scientists and innovators.

What's in it for you?

- **Cutting-Edge Tutorials:** Learn the latest cross-disciplinary research directly from the field's leading experts.
- **Soft-Skills Workshops:** Master the art of research communication and personal branding to stand out in a competitive global market.
- **Exclusive Networking:** Mingle with world-renowned professors and industry titans in a dedicated mentorship session.
- **Global Social Mixer:** End the day making lifelong connections with peers from across the globe in the heart of Nanjing.

Date: 5 July 2026 **Location:** Nanjing, China

Don't wait to build your future.

All information is available [here](#).

NANO STUDENT DESIGN COMPETITION at IEEE NANO 2026

Show off your Nano-Tech! Join the IEEE NANO 2026 Student Design Competition

Calling all student innovators!

We are thrilled to invite full-time undergraduate and graduate students (B.Sc., M.Sc., PhD) to participate in the NANO Student Design Competition (SDC) on 7 July 2026. This is your chance to apply creative problem-solving to real-world challenges, developing everything from novel software and prototypes to synthesis methodologies.

Why participate?

- **Global Recognition:** Winners will be awarded certificates and honored at the IEEE NANO 2026!

- **Get Published:** Winning teams may have the opportunity to submit a paper to a special session of the *IEEE Nanotechnology Magazine*.
- **Networking:** Connect with world-leading experts in the heart of Nanjing.

Key Details:

- **Eligibility:** Must be a full-time student with an accepted paper at IEEE NANO 2026.
Topics: A variety of topics and challenges will be released soon, challenge yourself and show your potential.
Teams: 1–4 members (multidisciplinary teams encouraged!)

Ready to compete? Check the **conference website** for more updates.



TECHNICAL ACTIVITIES

TC10 Webinar

Date/Time: 13 May 2026, 18:00 Japan Standard Time (17:00 China, 11:00 Central European Summer Time, 10:00 UK)

Title: AI-Driven Atomistic Modeling with Advance/NanoLabo: Bridging Simulation and Machine Learning

Speaker: Satomichi Nishihara, Executive Officer and Software Developer, AdvanceSoft Corporation

Abstract:

In this talk, we present the latest developments and applications of Advance/NanoLabo, an integrated platform for first-principles calculations and molecular dynamics simulations. In particular, we highlight the "Autopilot" feature, which enables automatic generation of atomistic models from natural language input, significantly reducing the complexity and expertise traditionally required for modeling tasks.

We also demonstrate large-scale simulation results using machine learning interatomic potentials accelerated by GPU clusters, showcasing both computational efficiency and predictive accuracy. In addition, we briefly introduce our recent progress in orbital-free density functional theory (OF-DFT), based on our proprietary "Theory of Graphical."

Speaker Bio

Satomichi Nishihara is a software developer and Executive Officer at AdvanceSoft Corporation. He received his M.Sc. in Science from Osaka University in 2009 and joined AdvanceSoft in 2018.

As an open-source contributor, he has implemented several key methods in Quantum ESPRESSO, including RMM-DIIS and 3D-RISM/ESM-RISM. His work also includes the development of neural network-based interatomic potentials and machine learning-based density functionals, covering both algorithm design and software implementation.

Webinar registration link

YOUNG PROFESSIONALS

New LinkedIn Page for NANO Chapters & Student Chapters

We are excited to invite you to follow the official IEEE Nanotechnology Council Chapters and Student Chapters LinkedIn page!

As our global community grows, LinkedIn is the easiest way to stay connected with the forefront of nanoscience. Add us to your daily feed to catch quick, real-time updates on:

- Events & Deadlines: Upcoming conferences (like IEEE-NANO), call for papers, and technical webinars.
- Latest Research: Must-read highlights from our flagship journals and magazines.
- Community News: Award announcements, Young Professionals (YP) updates, and networking opportunities.

Help us build a stronger, more connected ecosystem by joining the conversation.

[Click here to follow the page today!](#)

New Region 3 NTC YPs Representative



We are pleased to announce that Sree Ranjani Rajendran is the new R33 NTC YP Representative.

Dr. Sree Ranjani Rajendran is an Assistant Professor in the Department of Electrical Engineering and Computer Science at Florida Atlantic University. She holds a Ph.D. in Electronics and Communication Engineering and a Master's degree in VLSI Design. Her research interests include hardware security, system-on-chip (SoC) verification, and secure hardware design methodologies. She has contributed to several research publications in areas such as hardware vulnerability analysis and secure chip design. Dr. Rajendran is also an active IEEE senior member, contributing to educational and young professional activities, and is committed to mentoring students and fostering innovation in emerging semiconductor technologies.

New TFF Nanotechnology Council Young Professionals

IEEE Nanotechnology Council Young Professional Ambassadors

Meet Your 2026 IEEE NTC Young Professional Ambassadors!

The results are in! We are thrilled to unveil the **2026 Roster of IEEE Nanotechnology Council (NTC) YP Ambassadors**.

From Region 8 to Region 10, these leaders are bridging the gap between cutting-edge research and our global community.

Who are they?

Our Ambassadors are more than just researchers, they are mentors and speakers dedicated to inspiring the next generation of nano-innovators.

- **Luiz Felipe Aginsky** (Univ. of Glasgow, R8)
- **Gülce Nur Evren** (Izmir Katip Çelebi University, R8)
- **Lei Jin** (Southern Univ. of Sci. and Technology, R10)
- **Ren Qun** (Tianjin Univ. of Science and Tech, R10)

Book a "Talk on Demand" for Your Chapter!

Want to bring global expertise to your local Student Branch or Chapter?

Our Ambassadors are available for **virtual talks** on the hottest topics in the field:

Luiz Felipe Aginsky (Univ. of Glasgow, R8)

Talk: " Why and How Should I Apply for My First Grant?"

Talk: " Electronic Devices for Neuromorphic Computing: Bringing AI to the Hardware Level"

Gülce Nur Evren (Izmir Katip Çelebi University, R8)

Talk: "Nanotechnology in Biomedicine: Recycling Green Waste into Nano"

Talk: "Encouraging YPs in Region 8: Promoting Multidisciplinary Cooperation & Leadership in the IEEE Community"

Lei Jin (Southern Univ. of Sci. and Technology, R10)

Talk: "Colloidal Quantum Dots for Display"

Talk: "Nanoengineering: Shaping a Sustainable Future"

Ren Qun (Tianjin Univ., R10)

Talk: "Novel Information Transmission and Sensing Technologies Empowered by Electromagnetic Metasurfaces"

Talk: "Research on the Security and Performance of Terahertz Quantum Communication Interfaces"

Contact our **YP team**, or **IEEE Nanotechnology Council Chapters & Student Chapters** to get started!

IEEE NANOTECHNOLOGY
YOUNG PROFESSIONALS AMBASSADORS





CONFERENCES

Included in this section:

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

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.

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

Date: 5-8 July 2026

Manipulation, Automation and Robotics at Small Scales



Hangzhou, China
July 27–31, 2026

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

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

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

Date: 27 - 31 July 2026

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



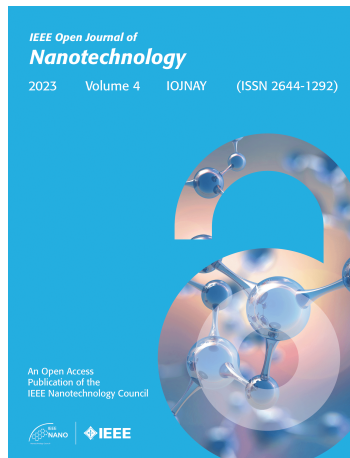
IEEE Open Journal of Nanotechnology

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



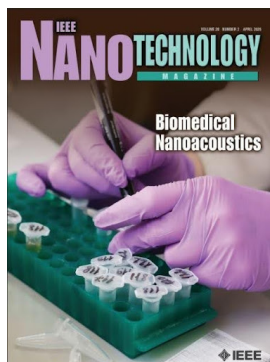
IEEE Nanotechnology Magazine

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. 2



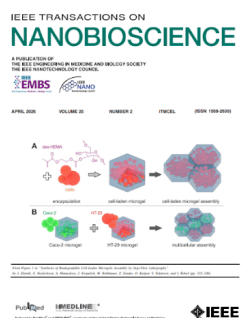
IEEE Transactions on NanoBioscience

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. 2



IEEE RESPONSE QUEST™ CHALLENGE

Are you ready to build systems that advance emergency intelligence?

The IEEE Response Quest™ Challenge is officially open with the chance to win!

We are looking for visionary individuals and teams led by IEEE members to help those in need by enabling emergency and relief workers to make more informed decisions during emergencies.

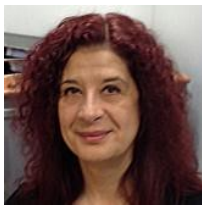
When a crisis occurs, it can be hard for responders on site to navigate these complex scenes to help those in need. The challenge is to find new solutions by working with contributions from data science, GIS, emergency management, software engineering, and others.

Are you ready for the challenge?

Start today!

LIST OF NANOTECHNOLOGY COUNCIL OFFICERS (2026)

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Past-President



Jin-Woo Kim

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Vice President for Conferences



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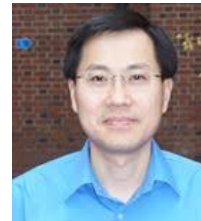
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Xiaoning Jiang

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Jie Han

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A banner graphic for the IEEE App. It features a blue background with a network of people icons connected by lines. On the right, there is a smartphone displaying the IEEE logo and the tagline "Advancing Technology for Humanity".

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