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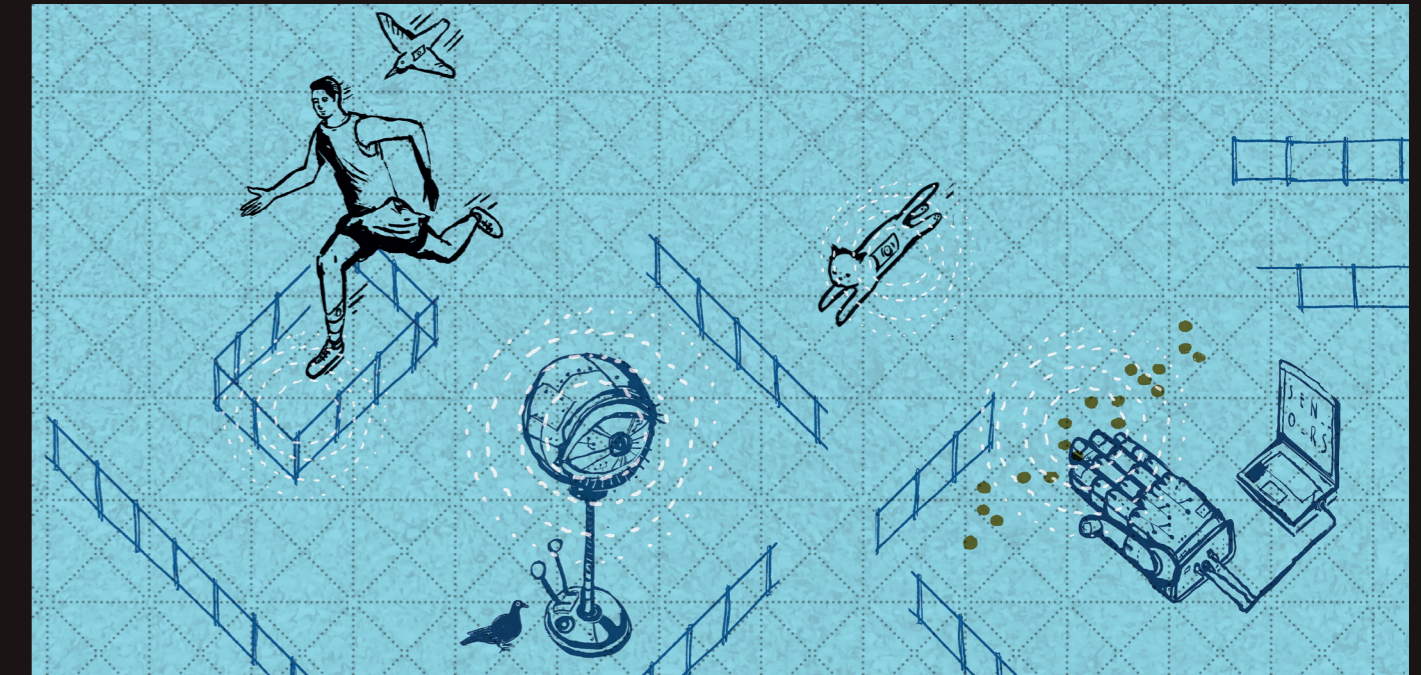


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Nature Forum: The Future of Sensing Technologies

Monday, April 13, 2026 | Seoul, Republic of Korea



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Welcome Message



It is my great pleasure to welcome you to the 2026 Nature Forum: The Future of Sensing Technologies, here at Yonsei University in Seoul.

This year's forum is especially meaningful, as it coincides with the launch of Nature Sensors. From the outset, the journal has been shaped by the sensing community, and this event is our way of celebrating that launch together not with a single announcement, but through shared discussion, expertise, and the presence of the people who make this field what it is.

Sensing technologies are advancing quickly, but their impact comes from the people who develop, test, refine, and apply them. Across healthcare, environmental monitoring, artificial intelligence, and human-machine interfaces, sensing is changing how we observe and understand the world. These developments reflect the collective effort of a community that spans materials science,

electronics, biology, data science, and many other fields.

Today's programme brings together researchers and practitioners from around the world. Through talks, discussions, and interactive sessions, we hope to create opportunities for open conversation about promising directions, practical challenges, and the kinds of collaborations that can move the field forward. Forums like this matter because they allow us to connect as a community, learn from one another, and understand where our shared priorities lie.

Our mission is to support impactful work and the people behind it. We believe that meaningful progress in sensing comes from sustained dialogue and strong partnerships, and we are grateful to everyone here for contributing your time, expertise, and perspective.

Thank you to all speakers, organisers, and participants. I hope this forum sparks new conversations, new collaborations, and a clearer sense of where we can go together as a community.

Olga Bubnova
Chief Editor
Nature Sensors



It is my great honor to welcome you to Yonsei University for the 2026 Nature Forum: The Future of Sensing Technologies.

This forum reflects our commitment to building a strong and supportive research ecosystem. With the support of the Office of Research Affairs, Yonsei University is proud to host this event in collaboration with Nature Journals and our partner institutions.

At Yonsei University, we have continuously worked to advance research infrastructure and promote interdisciplinary initiatives that enable meaningful scientific progress. Through programs and various collaborative research centers, we strive to create an environment where innovative ideas can grow and be translated into real-world impact.

We believe that this forum provides a valuable platform for sharing knowledge, exchanging ideas, and building lasting partnerships. It is our hope that the discussions and interactions that take place here will lead to meaningful collaborations and future innovations.

We are honored to host you at Yonsei University and wish you a productive and inspiring forum.

Jongill Hong
Vice President, Office of Research Affairs
President, University-Industry Foundation
Yonsei University

Agenda

Session I	
8:30 a.m.	Event check-in
9:10 a.m.	Opening Introductory Remarks <ul style="list-style-type: none"> • Wooyoung Shim (Yonsei University, Korea) Congratulatory Remarks <ul style="list-style-type: none"> • Won-Yong Lee (Vice President, Yonsei University, Korea) • Joonhong Park (Director, Yonsei Engineering Research Center, Korea) • Olga Bubnova (Chief Editor, Nature Sensors)
Chair: Frank Sun , Associate Editor, Nature Sensors	
9:30 a.m.	Skin-Interfaced, Wireless Sensors: Research & Translation <ul style="list-style-type: none"> • John A. Rogers (Northwestern University, USA)
9:50 a.m.	Multilayered Noise-tolerant Wearable Sensors <ul style="list-style-type: none"> • Sheng Xu (Stanford University, USA)
10:10 a.m.	Designer Nanomachines for Medicine <ul style="list-style-type: none"> • Jinwoo Cheon (Yonsei University, Korea)
10:30 a.m.	Break
Chair: Wooyoung Shim , Professor, Yonsei University	
10:50 a.m.	Polymeric Transistors for Biochemical Sensing <ul style="list-style-type: none"> • Sahika Inal (KAUST, Saudi Arabia)
11:10 a.m.	Soft Electronics for Healthcare Monitoring and Human Machine Interface <ul style="list-style-type: none"> • Xinge Yu (City University of Hong Kong, China)
11:30 a.m.	Soft Skin-Conformable Mechano-Acoustic Sensors for Wearable Healthcare and Voice Detection <ul style="list-style-type: none"> • Kilwon Cho (POSTECH, Korea)
11:50 a.m.	Lunch (11:50-12:50) and Poster Session (12:50-13:50)
Session II	
Chair: Laura Schmid , Chief Editor, Nature Reviews Computing	
1:50 p.m.	Atomic Force Microscopy in the Era of Nano-Sensing: From Instrumentation to Ecosystem <ul style="list-style-type: none"> • Sang-Joon Cho (Park Systems, Korea)
2:00 p.m.	Integration of Efficient Sensing, Encoding, and Learning via Memristive Dynamics <ul style="list-style-type: none"> • Joshua Yang (University of Southern California, USA)
2:20 p.m.	Bio-inspired Sensory Receptors for Artificial Perception <ul style="list-style-type: none"> • Nae-Eung Lee (Sungkyunkwan University, Korea)
2:40 p.m.	Break
Chair: Alberto Moscatelli , Chief Editor, Nature Nanotechnology	
2:55 p.m.	Organic Spiking Circuits for Event-based Sensing <ul style="list-style-type: none"> • Simone Fabiano (Linköping University (LiU), Sweden)
3:15 p.m.	From Spikes to Systems: Neuromorphic Technology in Biomedicine <ul style="list-style-type: none"> • Elisa Donati (University of Zurich, Switzerland)
3:35 p.m.	High-Capacity Ni-Rich Cathode Materials for E-Mobility Applications <ul style="list-style-type: none"> • Yang-Kook Sun (Hanyang University, Korea)
3:55 p.m.	Break
Moderator: Clara Moskowitz , Chief of Reporters, Scientific American	
4:10 p.m.	Panel Discussion <ul style="list-style-type: none"> • Lance Li (National University of Singapore, Singapore) • Wei Gao (California Institute of Technology, USA) • Silvestro Micera (École Polytechnique Fédérale de Lausanne, Switzerland) • Taewoo Lee (Seoul National University, Korea) • Joseph Wang (University of California, San Diego (UCSD), USA) • Lim Chwee Teck (National University of Singapore, Singapore) • Jeehwan Kim (Massachusetts Institute of Technology, USA) • Deji Akinwande (University of Texas, USA)
5:00 p.m.	Concluding Remarks (Poster winners announcement)

Distinguished Guests

Speakers



John A. Rogers
Northwestern University, USA



Sheng Xu
Stanford University, USA



Jinwoo Cheon
Yonsei University, Korea



Sahika Inal
KAUST, Saudi Arabia



Xinge Yu
City University of Hong Kong, China



Kilwon Cho
POSTECH, Korea



Sang-Joon Cho
Park Systems, Korea



Joshua Yang
University of Southern California, USA



Nae-Eung Lee
Sungkyunkwan University, Korea



Simone Fabiano
Linköping University (LiU), Sweden



Elisa Donati
University of Zurich, Switzerland



Yang-Kook Sun
Hanyang University, Korea

Panelists



Silvestro Micera
École Polytechnique Fédérale de Lausanne, Switzerland



Joseph Wang
University of California, San Diego (UCSD), USA



Wei Gao
California Institute of Technology, USA



Jeehwan Kim
Massachusetts Institute of Technology, USA



Lance Li
National University of Singapore, Singapore



Lim Chwee Teck
National University of Singapore, Singapore



Deji Akinwande
University of Texas, USA



Taewoo Lee
Seoul National University, Korea



Saptarshi Das
The Pennsylvania State University, USA

VIP



Hyunjo Jenny Lee
KAIST, Korea



Luigi Occhipinti
Cambridge, UK



Jingchun Feng
Guangdong University, China



Peng Zhou
Fudan, China



Marcia O'Malley
Rice University, USA



Mario Lanza
NUS, Singapore

Guest Editors



Susan Jones
Nature Research Journals



Erika Pastrana
Nature Research Journals



Lishu Wu
Nature Physics



Alberto Moscatelli
Nature Nanotechnology



Laura Schmid
Nature Reviews Computing



Clara Moskowitz
Scientific American