SCIENCE WIDE
CONNECTING RESEARCHERS

FINAL PROGRAM

virtual

Global Sensors & Sensing Technology Meet (Sensors2026)

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Global Mechanical & Aerospace Engineering Meet (MechAero2026)

November 19-20, 2026 | Osaka, Japan



Science Wide

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DAY – 1 NOVEMBER 19, 2026 | THURSDAY | VIRTUAL PRESENTATIONS

Japan Time Zone (GMT+9)

Conference Timings		
		Conference Chair: Prof. Tokeer Ahmad, Jamia Millia Islamia, India. **Conference Co-Chair: Prof. Kay Römer, TU Graz, Austria** **Moderator: Dr. Naveen Balaji Sivaprakasam Sudha, Université Paris Cité, France.**
13:30 – 13:40		Introduction
13:40 – 14:20	Plenary	Title: Position Sensing with Ultra-Wide Band: Towards an Indoor GPS **Kay Römer, TU Graz, Austria.**
14:20 – 15:00	Plenary	Title: Recent Understandings in Floating Offshore Wind Turbine Aerodynamics and Wakes **Alessandro Bianchini, University of Florence, Italy.**
15:00 – 15:40	Plenary	Title: Engineering the Future of Geriatric Healthcare: A Paradigm Shift in Design for Aging Populations **Raymond Yee, San Jose State University, USA.**
15:40 – 16:20	Plenary	Title: A New Heuristic, Used to Compute The Spectral Radius of The Covariance Matrix of A Markov Chain **Parthasarathy Srinivasan, Oracle Corporation, United States.**
16:20 – 16:55	Keynote	Title: Movement Of The Friable Material On The Vibratory Working Member With An Elastic Bottom **Victor Zviadauri, Georgian Technical University, Georgia.**
16:55 – 17:30	Keynote	Title: Precisely Programmable Optical Memristors Enabled By Phase Change Materials **Qian Wang, ASTAR, Singapore.**
17:30 – 18:05	Keynote	Title: Enhancing Language Learning with Fine-Tuned Multimodal AI For Adaptive Writing Feedback **Philip Yu, The Education University of Hong Kong, Hong Kong.**

18:05 – 18:40	Keynote	Title: Improvement Of The Extensive Feature Selector (EFS) Method For Filter-Based Feature Selection In Text Classification **Mohd Ridzwan Yaakub, Universiti Kebangsaan Malaysia, Malaysia.**
18:40 – 19:00	Invited	Title: A Compact and Selective Impedimetric Sensing Platform Utilizing Molecularly Imprinted Polymers for Real-Time Edible Oil Spoilage Monitoring **Yizhou Jiang, National University of Singapore, Singapore.**
19:00 – 19:20	Invited	Title: A Transistor-Based Gas Sensing Innovation for Medical Application **Naveen Balaji Sivaprakasam Sudha, Université Paris Cité, France.**
19:20 – 19:40	Invited	Title: Flexible Thin-Film Capacitive Strain Sensors for Monitoring Complex Aerodynamic Deformations In Flapping-Wing Robots **Zichen Gao, Institute of Science Tokyo, Japan.**
19:40 – 19:50	E-Poster	Title: Fabrication of Earplug-Type Electrodes with Laser-Induced Graphene for Real-Time Monitoring of Electroencephalogram **Sota Harada, Institute of Science Tokyo, Japan.**
19:50 – 20:00	E-Poster	Title: Flexible Thin-Film Electrodes with Gold Nanoink and Polyimide Ink and Their Long-Term Insulation Property for ECoG Monitoring **Fumiya Hamazaki, Institute of Science Tokyo, Japan.**
20:00 – 20:10	E-Poster	Title: Development of Thin-film Transpiration Sensors Composed of SWCNTs and Conductive Polymer toward Smart Agriculture **Keita Hara, Institute of Science Tokyo, Japan.**
20:10 – 20:20	E-Poster	Title: Highly Sensitive Soft Capacitive sensor for robotic System **Masoumeh Hesam Mahmoudinezhad, University of Auckland, New Zealand.**

20:20 – 20:30	E-Poster	Title: Lead-free FA3Sb2Br9 thin films for highly sensitive NH3 gas detection **Myungkwan Song, Korea Institute of Materials Science, Republic of Korea.**
20:30 – 20:40	E-Poster	Title: Multiaxial Mechanical Characterization and Robust Hyperelastic Constitutive Modeling of SLA-Printed Shore 50A Elastomers for Predictive FEA **Sergio Fuentes del Toro, University Carlos III of Madrid, Spain.**
20:40 – 20:50	E-Poster	Title: Dynamic Response and Energy Absorption of Metallic vs. Elastomeric Origami-Inspired Metamaterials **Josue Aranda-Ruiz, University Carlos III of Madrid, Spain.**
20:50 – 21:00	E-Poster	Title: Toward an Education-Oriented Evaluation Framework for Coding AI Models **YuDoo Kim, Dongyang Mirae University, Korea.**

END OF THE DAY 1 VIRTUAL PRESENTATIONS

DAY – 2

NOVEMBER 20, 2026 | FRIDAY | VIRTUAL PRESENTATIONS

Japan Time Zone (GMT+9)

13:30 – 14:10	Plenary	Title: Global Crisis/Sustainability Technologies **Kenji Uchino, The Pennsylvania State University, United States.**
14:10 – 14:50	Plenary	Title: Single-Molecule Nanoparticle Optical Sensors For Real-Time Imaging Of Single Live Cells **X Nancy Xu, Old Dominion University, United States.**

14:50 – 15:30	Plenary	Title: Deciphering Cuprous Oxide Nanofilm as a Promising Chemical Sensor **Paulo Cesar De Morais, University of Brasília, Brazil.**
15:30 – 16:10	Plenary	Title: Returning Mobility to Over 45,000 Patients and Moving Into Implantable Sensors **Thomas J Webster, Brown University, United States.**
16:10 – 16:50	Plenary	Title: Multifunctional Heterogeneous Catalysis for Sustainable H2 Energy using Multinary Advanced Nanostructures **Tokeer Ahmad, Jamia Millia Islamia, New Delhi, India.**
16:50 – 17:30	Plenary	Title: Intelligent and Autonomous Drone **Dilip Kumar Pratihar, Indian Institute of Technology Kharagpur, India.**
17:30 – 18:10	Plenary	Title: AI Mechanics **Guirong Liu, Engineering, University of Cincinnati, USA.**
18:10 – 18:50	Plenary	Title: Conversational AI and Deep Fakes **Maja Pantic, Imperial College London, UK.**
18:50 – 19:20	Keynote	Title: General Purpose Wi-Fi Sensing Application for Various Engineering Problems **Siba K Udgata, University of Hyderabad, India.**
19:20 – 19:50	Keynote	Title: Electrochemical sensor applications of mechanically alloyed nano-structured advanced materials **Shashanka Rajendrachari, Global Academy of Technology Bangalore, India.**

19:50 – 20:20	Keynote	Title: Connected medical devices: from smart medical sensors to the Internet of Things (IoT) for personalised healthcare **Norbert Noury, University of Lyon, France.**
20:20 – 20:50	Keynote	Title: Shape Memory Phenomena and Crystallographic Basis of Thermoelasticity and Superelasticity in Shape Memory Alloys **Osman Adiguzel, Firat University, Turkey.**
20:50 – 21:20	Keynote	Title: Traditional cutting tools for Machining Difficult to Cut Materials **Moola Mohan Reddy, Curtin University, Malaysia.**
21:20 – 21:50	Keynote	Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator **Seongwoo Woo, Ethiopian Technical University, Ethiopia.**
21:50 – 22:10	Invited	Title: Laser-Engineered Nanomaterial for Advanced Sensing: From Nanofabrication and Functional Materials to Optical and Environmental Applications **Hisham Imam, Cairo University, Egypt.**

Closing Ceremony