SCIENCE WIDE
CONNECTING RESEARCHERS

TENTATIVE PROGRAM

Global Mechanical & Aerospace Engineering Meet

&

Global Sensors & Sensing Technology Meet

November 19-20, 2026 | Osaka, Japan

Prepared by

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W: https://mechanical2026.com/ and https://sensors2026.com/

DAY – 1

NOVEMBER 19, 2026 | THURSDAY

08:30 to 09:00 Registrations and Badge Pickup
09:00 to 09:30 Opening Ceremony and Welcome Remarks

09:30 to 10:10 **P** **Kay Römer**, TU Graz, Austria.
Title: Position Sensing with Ultra-Wide Band: Towards an Indoor GPS

10:10 to 10:50 **P** **Raymond Yee**, San Jose State University, USA.
Title: Engineering the Future of Geriatric Healthcare: A Paradigm Shift in Design for Aging Populations

10:50 to 11:10 Networking & Break

11:10 to 11:50 **P** **Alessandro Bianchini**, University of Florence, Italy.
Title: Recent understandings in floating offshore wind turbine aerodynamics and wakes

11:50 to 12:25 **K** **Qian Wang**, Institute of Materials Research and Engineering, ASTAR, Singapore.
Title: Precisely programmable optical memristors enabled by phase change materials

12:25 to 13:00 **K** **Philip L H Yu**, The Education University of Hong Kong, Hong Kong.
Title: Enhancing Language Learning with Fine-Tuned Multimodal AI for Adaptive Writing Feedback

13:00 to 14:00 Group Photograph Followed by Lunch

14:00 to 14:35 **K** **Mohd Ridzwan Yaakub**, Universiti Kebangsaan Malaysia, Malaysia.
Title: Improvement of the Extensive Feature Selector (EFS) Method for Filter-Based Feature Selection in Text Classification

14:35 to 14:55 **I** **Zichen Gao**, Institute of Science Tokyo, Japan.
Title: Flexible Thin-film Capacitive Strain Sensors for Monitoring Complex Aerodynamic Deformations in Flapping-Wing Robots

14:55 to 15:15 **I** **Yizhou Jiang**, National University of Singapore, Singapore.
Title: A Compact and Selective Impedimetric Sensing Platform Utilizing Molecularly Imprinted Polymers for Real-Time Edible Oil Spoilage Monitoring

15:15 to 15:35 **I** **Naveen Balaji Sivaprakasam Sudha**, Université Paris Cité, France.
Title: A Transistor-based Gas Sensing Innovation for Medical Application

15:35 to 15:55 | **Zhenhao Gao**, Sun Yat-sen University, China.
Title: Task-Constrained Full-DOF Formation Planning for Multi-UAV Target Capture in Cluttered Environments

15:55 to 16:15 Networking and Coffee Break

Poster - 1 **Sota Harada**, Institute of Science Tokyo, Japan.
Title: Fabrication of Earplug-Type Electrodes with Laser-Induced Graphene for Real-Time Monitoring of Electroencephalogram

Poster - 2 **Keita Hara**, Institute of Science Tokyo, Japan.
Title: Development of Thin-film Transpiration Sensors Composed of SWCNTs and Conductive Polymer toward Smart Agriculture

Poster - 3 **Fumiya Hamazaki**, Institute of Science Tokyo, Japan.
Title: Flexible Thin-Film Electrodes with Gold Nanoink and Polyimide Ink and Their Long-Term Insulation Property for ECoG Monitoring

Poster - 4 **Masoumeh Hesam Mahmoudinezhad**, University of Auckland, New Zealand.
Title: Highly Sensitive Soft Capacitive sensor for robotic System

Poster - 5 **Myungkwan Song**, Korea Institute of Materials Science (KISMS), Republic of Korea.
Title: Lead-free FA3Sb2Br9 thin films for highly sensitive NH3 gas detection

Poster - 6 **Josue Aranda-Ruiz**, University Carlos III of Madrid, Spain.
Title: Dynamic Response and Energy Absorption of Metallic vs. Elastomeric Origami-Inspired Metamaterials

Poster - 7 **Sergio Fuentes del Toro**, University Carlos III of Madrid, Spain.
Title: Multiaxial Mechanical Characterization and Robust Hyperelastic Constitutive Modeling of SLA-Printed Shore 50A Elastomers for Predictive FEA

Poster - 8 **YuDoo Kim**, Dongyang Mirae University, Korea.
Title: Toward an Education-Oriented Evaluation Framework for Coding AI Models

Poster - 9 **YuDoo Kim**, Fudan university, China.
Title: Laser-Induced Functionalization of Flexible Polyimide-Carbon Fiber for Real-time Advanced Chronic Wound Monitoring

END OF THE DAY 1

DAY – 2

NOVEMBER 20, 2026 | FRIDAY

09:30 to 10:10 **P** **Mostafa Safdari Shadloo**, Institut Universitaire de France, France
Title: Electric-Field-Driven Flow Control of Transport Phenomena

10:10 to 10:50 **P** **Rinaldo Garziera**, University of Parma, Italy.
Title: Optimizing Hardness in Cold-Work Tool Steels: Role of Multi-Cycle Quenching on AISI D2 and D3 tool steels

10:50 to 11:10 Networking/ Break

11:10 to 11:45 **K** **Olivier Soppera**, Université de Haute-Alsace, France.
Title: Photopolymerized Molecularly Imprinted Polymers for Plasmon-Enhanced Sensing

11:45 to 12:20 **K** **Abdul Halim Abdullah**, Universiti Teknologi MARA, Malaysia.
Title: Additive Manufacturing in Rehabilitation Engineering: Personalized Orthotic and Assistive Solutions

12:20 to 12:55 **K** **Aref Maalej**, University of Sfax, Tunisia.
Title: Statistical analysis of the performance and reliability of modified centrifugal pumps

12:55 to 13:55 Group Photograph Followed by Lunch

13:55 to 14:30 **K** **Amzar Azizan**, Khalifa bin Zayed Air College, UAE.
Title: AI-Driven Acoustic Fault Diagnosis for Predictive Maintenance in Vehicle Propulsion and Auxiliary Systems

14:30 to 15:05 **K** **Victor Zviadauri**, Georgian Technical University, Georgia.
Title: Movement of the friable material on the vibratory working member with an elastic bottom

15:05 to 15:25 **I** **Pooja Verma**, Ben Gurion University of the Negev, Israel.
Title: Specific, Label Free and Real time Sensing of Glial Fibrillary Acidic Protein (GFAP) using Meta- Nano-Channel BioFET

15:25 to 15:45 **I** **Utkarsh Kumar**, National Chung Hsing University, Taiwan.
Title: Synaptic sensor for development of potentiometric NO2 sensor by using WSe2/PPy composite nanoarchitectonics

15:45 to 16:05	I	**Xiaoyu Ji**, Zhejiang University, China. Title: Embodied AI Security: A Sensor-Oriented Perspective
16:05 to 16:25	I	**Hisham Imam**, NILES, Cairo University, Egypt. Title: Laser-Engineered Nanomaterial for Advanced Sensing: From Nanofabrication and Functional Materials to Optical and Environmental Applications
16:25 to 16:45	I	**Chandra Shekhar Prajapati**, Indian Institute of Technology Patna, India. Title: Development of MEMS-Based Chemi-resistive Gas Sensor Array for Space Module Air Quality Monitoring

16:45 to 17:05	**Closing Ceremony & Coffee/ Tea Break & End of Conference**