

# INTERNATIONAL SYMPOSIUM ON HUMANOID ROBOTICS AND SOVEREIGN AI FOR FUTURE LIVING

February 5, 2026

Asia University

500, Lioufeng Rd., Wufeng, Taichung 413305, Taiwan

**Sponsored by:**

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The fusion of **humanoid robotics** and **Sovereign AI** is poised to fundamentally reshape not just healthcare, but the very fabric of **Future Living**, encompassing crucial sectors like Manufacturing and personal well-being. As a hub for ethical innovation, **Asia University** invites the world's most **aspiring visionaries** to contribute their expertise and shape this extraordinary, multi-sector future.

This symposium is a critical platform, calling upon those advancing **AI, robotics hardware, and commercial applications** across various industries to present their breakthroughs. Your work will be showcased to **global industry leaders, investors, and media** committed to operationalizing the next generation of intelligent, embodied systems.

**Vision: Empowering Future Living through Embodied Intelligence**

Our foundational Vision remains to position Taiwan as a global convener and leader in Sovereign AI and Humanoid Robotics across high-impact domains: Healthcare, Manufacturing, and Future Living. We aim for a strategic integration of technical excellence, ethical governance, and cultural trust. The symposium envisions a future where humanoid systems are not only technically advanced but are also socially accepted, ethically governed, and strategically deployed to amplify human productivity, well-being, and resilience across society.

## **Objectives : Broad Societal Impact**

To realize this expanded vision, the symposium focuses on four interlocking Objectives:

- **Advance Multi-Sector Innovation:** Showcase breakthroughs in humanoid systems for precision healthcare (surgical/rehabilitation), agile manufacturing, and smart home assistance.
- **Strengthen Sovereign AI Ecosystems:** Establish frameworks for federated learning, data sovereignty, and cross-border trust in AI applications used across critical infrastructure and personal data domains.
- **Promote Ethical and Social Integration:** Address the complex issues of identity, trust, and cultural adoption essential for successful humanoid-human interaction in clinical, industrial, and domestic settings.
- **Forge Global Alliances:** Convene leading experts from Asia, the U.S., and Europe to build essential collaborative pathways for deployment and international governance across all key sectors.

## **Goals: Operationalizing Impact and Governance**

The collective effort aims to achieve concrete Goals with immediate operational impact across these diverse fields:

- **Operational Impact:** Launching pilot collaborations in Taiwan's hospitals, smart factories, and eldercare facilities to test and validate real-world application.
- **Governance Leadership:** Publishing a Taiwan-led white paper on Sovereign AI for Humanoid Robotics across the Healthcare and Manufacturing sectors, setting a new global benchmark for secure deployment.
- **Cultural Resonance:** Defining standards for humanoid-human trust and identity in clinical, industrial, and social settings.
- **Global Positioning:** Establishing Taiwan as a hub for humanoid robotics diplomacy, effectively bridging advanced research between Asia and the world.

## **Symposium Themes: The Pillars of Future Living**

### **I. Technical Foundations: Kinematics and Hardware**

1. Humanoid Kinematics and Surgical Robotics:
  - Advances in locomotion, dexterity, and surgical assistance.
  - Integration of semiconductors and sensors for precision robotics.

## **II. Sector Applications: Healthcare, Manufacturing & Supply Chain**

2. Healthcare Applications: Rehabilitation and Clinical Robotics:
  - Humanoids in clinical workflows, rehabilitation systems, and eldercare environments.
  - Case studies on assistive and therapeutic robotics for aging societies.
3. Manufacturing and Agile Production Robotics:
  - Humanoid systems for advanced assembly, logistics, and quality control in smart factories.
  - Human-robot collaborative (HRC) workflows and safety standards in manufacturing.
4. Logistics and Supply Chain Robotics:
  - Humanoid/Mobile manipulation systems for flexible order fulfillment and sorting in automated warehouses.
  - Last-mile delivery and inventory management using autonomous robots and drones.
  - Safe navigation, grasping, and dynamic path planning in human-dominated logistics spaces.

## **III. Future of Living and Governance**

5. Robotics for Future Living and Smart Homes:
  - Domestic assistance, personal education, and ambient intelligence integration.
  - The role of humanoids in enhancing quality of life and personal autonomy.
6. Sovereign AI and Data Governance:
  - Federated learning frameworks for clinical, industrial, and consumer robotics data.
  - Cross-border data diplomacy and multi-jurisdictional trust ecosystems for AI models.
7. Social and Ethical Dimensions: Identity, Trust, and Cultural Adoption:
  - Ethical frameworks for humanoid deployment in sovereign, industrial, and domestic contexts.
  - Analyzing human-robot interaction (HRI) models to build trust and ensure cultural relevance.

We invite you to step forward and contribute your vision across these transformative domains. Shape the future of Humanoid Robotics and Sovereign AI for Future Living with us.

## Registration

- To register as an audience participant, please click [here](#) by January 26, 2026.
- Symposium Cost: Free of charge.
- Complimentary lunch will be provided to all registered participants.

**Contact:** For additional information, please contact Dr. KL Ng at [kling@asia.edu.tw](mailto:kling@asia.edu.tw) or Dr. KT Huang at [kthuang14@asia.edu.tw](mailto:kthuang14@asia.edu.tw)

<b>5-Feb.-2026 (Thursday) (Subject to Change)</b>		
08:30 - 09:00	<b>Registration</b>	
09:00 - 09:10	<b>Opening</b> <b>President of Asia University</b> <b>Dr. Jeffrey JP Tsai</b> <b>Opening Speech</b> <b>Minister, National Science and Technology Council</b> <b>Dr. Cheng-Wen Wu</b>	
09:10 - 10:00	<b>Keynote Speech</b> <b>Prof. Oussama Khatib</b> <b>Shaping the future of Human-Robot Collaboration</b> <b>Director, Stanford Robotics Center</b> <b>Weichai Professor, by courtesy</b> <b>Dept. Electrical Engineering</b> <b>Stanford University</b>	<b>Session Chair</b> <b>Dr. Jung-Jie Huang</b> <b>Vice President</b> <b>Asia University</b>
10:00 - 10:40	<b>Keynote Speech</b> <b>Prof. Pauchen Cheng</b> <b>Confidential Computing for Edge Devices: Humanoid &amp; Robotics Deployment Examples</b> <b>Retired RSM, IBM Watson Research Center</b> <b>Adjunct Professor, Dept. of Electrical Engineering</b> <b>National Taiwan University,</b>	<b>Session Chair</b> <b>Dr. Hsing-Chung Chen</b> <b>Distinguished Professor of Computer Science and Information Engineering</b> <b>Asia University</b>
10:40 - 11:00	<b>Partnership and Demo</b> <b>Wing Chow</b> <b>Project Manager</b> <b>How Healthcare Robots Become Clinical Partners</b> <b>EverBot Technology/ China Medical University Hospital</b>	<b>Session Chair</b> <b>Dr. Jr Wei, Tsai</b> <b>Vice Chairman of Computer Science and Information Engineering</b> <b>Asia University</b>
11:00 - 11:20	<b>Coffee Break</b>	

11:20 - 12:00	<p align="center"><b>Panel Discussion: Humanoid Robotics and Sovereign AI</b>  <b>Moderator: Prof. Ching-Hsien Hsu</b>  Dean, College of Electrical Engineering and Computer Science  Asia University  Distinguished Panelists:  <b>Prof. Oussama Khatib, Stanford University</b>  <b>Prof. PauChen Chang, National Taiwan University</b>  Service Humanoid, China Medical University Hospital</p>	
12:00 - 13:00	<p align="center"><b>Lunch Break</b>  <b>Demonstration by (Entire Day)</b>  <b>Ghost Robotics (Robotic Dog)</b>  <b>EverBot Technology/ China Medical University Hospital (Humanoid)</b></p>	
13:00 - 14:00	<p align="center"><b>Keynote Speech</b>  <b>Prof. Hiroshi Ishiguro</b>  <b>Avatar and the future society</b>  Director of the Intelligent Robotics Laboratory,  Department of Systems Innovation,  Graduate School of Engineering Science,  Osaka University</p>	<p align="center">Session Chair  <b>Dr. Shioh-Fon Tsay,</b>  <b>Vice President</b>  Asia University</p>
14:00 - 14:50	<p align="center"><b>Keynote Speech</b>  <b>Prof. Edward Y. Chang</b>  <b>From Walking to Thinking: Feedback, Memory, and Causal Reasoning for Embodied AGI</b>  Adjunct Professor, Computer Science  Stanford University</p>	<p align="center">Session Chair  <b>Dr. Zhi-Ren Tsai,</b>  Professor,  Dept. of Computer Science and  Information Engineering  Asia University</p>
14:50 - 15:40	<p align="center"><b>Keynote Speech</b>  <b>Edward Wei</b>  <b>"Body" and "Mind" problem in humanoid robotics</b>  Senior Advisor  Realtek Semiconductor Corp</p>	<p align="center">Session Chair  <b>Dr. Jr Wei, Tsai</b>  Vice Chairman of Computer Science and  Information Engineering  Asia University</p>

15:40 – 16:00	<b>Coffee Break</b>	
16:00 – 16:20	<b>Keynote Speech</b> <b>Prof. Kuan-Tsae Huang</b> <b>Five Year Outlook of Humanoid Robotics</b> <b>Director, AI &amp; Quantum Research Center</b> <b>Chair Prof. Dept of CSIE</b> <b>Asia University</b>	<b>Dr. Gene-Eu Jan</b> Chair Professor, Dept. of Computer Science and Information Engineering Asia University
16:20 - 17:25	<b>Panel Discussion: Humanoid Robotics and Sovereign AI</b> <b>Moderator: Dr. Edward Y. Chang</b> Adjunct Professor, Computer Science Stanford University  Distinguished Panelists: <b>Prof. Oussama Khatib, Stanford University</b> <b>Prof. Edward Chang, Stanford University</b> <b>Edward Wei, Realtek Semiconductor</b> <b>Prof. Kuan-Tsae Huang, Asia University</b>	
17:25-17:30	Closing Remark <b>Dr. Ka-Lok Ng</b> Deputy Director, AI & Quantum Research Center, Distinguish Professor, Bioinformatics and Medical Engineering Asia University	