

11/26 (Wed) 9:00~16:35 UoA Joint Research Forum 2025

Organizer : The University of Aizu
CAIST, AI Center, ARC-Space



Transformations in Work and Society Brought About by AI Agents

~The Role of Universities and Industry in the Age of Human-AI Collaboration~



↑ Latest Info







↑ Application

VENUE AUDITORIUM, the University of Aizu

Pre-registration required →


Part 1: Keynote Speeches and Panel Discussion

| | | | |
|---------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 09:00 - | Opening Remarks | Chairperson of the Board of Executives / President the University of Aizu | TSUKAHARA Tsuneo |
| 09:05 - 09:45 | Keynote Speech1 |  The Future Development Landscape Shaped by AI — Transformations Through Agentic AI and Physical AI SASAKI Akira | President and CEO, GClue Inc. and FaBo Inc. |
| 09:45 - 10:25 | Keynote Speech2 |  Robotics Research, Social Implementation, and System Integration at AIST Director, Intelligent Systems Research Institute, Department of Information Technology and Human Factors, ANDO Noriaki | National Institute of Advanced Industrial Science and Technology (AIST) |
| 10:25 - 11:05 | Keynote Speech3 |  Latest Trends in Generative AI and Business Application Possibilities MORISHITA Makoto | Chief Research Engineer, Strategic AI Group, Future Corporation |
| 11:05 - 11:15 | Break | | |
| 11:15 - 12:15 | Panel Discussion | Transformations in Work and Society Brought About by AI Agents - The Role of Universities and Industry in the Age of Human-AI Collaboration - | |
| | |  SASAKI Akira • ANDO Noriaki • MORISHITA Makoto INOUE Takuhiko Principal Researcher / Technical Evangelist, Technology Research Laboratory, Cresco Ltd. | Chair : Prof. SAITO Hiroyuki |

12:15 - 13:20

Lunch Break

Part 2: Research Center & Cluster Achievements Presentation

| | | |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 13:20 - | <div><div>Basic Cluster Poster Presentations</div><div><div><div>• Acceleration of Large Numerical Models and Applications</div><div>• Agentic Tools for Scientific Research Automation</div><div>• Research of 3D Geological Model Construction Method Using the Related Space Exploration Technologies</div><div>• AI-Empowered Mixed Optical/RF-based Non-Terrestrial Networks</div><div>• Vehicle 2 Vehicle Communication Mechanisms in Infrastructure Less Environments using Temporal Projections</div></div><div><div>【High Performance Computing & Simulation】NAKASATO Naohito</div><div>【Automatic AI System Design】MARKOV Konstantin</div><div>【Space Exploration Technology】YAMADA Ryuhei</div><div>【Integrated Computation-Communication pLatform】PHAM Tuan Anh</div><div>【Intelligent Transportation Systems】RAGE Uday Kiran</div></div></div></div> | |
| | <div><div>concurrent exhibition</div><div><div>Organizer : UoA IEEE Student Branch</div><div>Research presentations by graduate students (The Graduate School Fair)</div></div><div><div>Chair : Prof. PAIK Incheon / Prof. SHIN Jungpil</div><div></div></div></div> | |
| 14:10 - | <div><div>Basic Cluster Presentations</div><div><div>Collaboration and Education with External Partners through Data Science</div><div>Securing the Uncertain Future: AI-Driven Threats and the Next-Gen Cyber Defense</div><div>Design of Human-Centered Intelligent Systems Based on Human-Computer Collaboration</div><div>Advancing Neuromorphic AI for Energy-Efficient and Sustainable Computing</div></div><div><div>【Data Science and Engineering】HASHIMOTO Yasuhiro</div><div>【Information Security】NAKAMURA Akihito / SU Chunhua</div><div>【Smart Design】YOSHIOKA Rentaro</div><div>【Sustainable Computing】DANG Nam Khanh</div></div></div> | |
| 15:10 - 15:15 | Q & A | |
| 15:15 - 15:25 | Break | |
| 15:25 - | <div><div>Research Center Presentations</div><div><div>An Online Judge System-Based Framework for Robot Software Performance Evaluation and Development</div><div>Approximate Circuit Design for Low Power Consumption in IoT Cluster</div><div>Toward the Realization of Image Recognition Technologies that Contribute to Human Life</div><div>Archived Data Science for Lunar and Planetary Explorations, and Hakoniwa Program</div></div><div><div>【ARC-Robot】WATANOBE Yutaka</div><div>【ARC-IoT】KOHIRA Yukihide</div><div>【ARC-Vision】OKUYAMA Yuichi</div><div>【ARC-Space】DEMURA Hirohide</div></div></div> | |
| 16:25 - 16:30 | Q & A | |
| - 16:35 | Closing Remarks | Dean of Graduate School PAIK Incheon |



Chair : Prof. PAIK Incheon / Prof. SHIN Jungpil

Participation is free of charge
Language: Japanese (No English interpretation)

<Contact Us>
Planning Section, Planning and Coordination Division
Phone : 0242-37-2510 E-mail : cl-planning@u-aizu.ac.jp

UoA Joint Research Forum 2025 Outline

Transformations in Work and Society Brought About by AI Agents

The Role of Universities and Industry in the Age of Human–AI Collaboration

In recent years, AI agent technologies based on large language models (LLMs) have advanced rapidly, enabling AI to actively enter various professional domains by mimicking and supporting human thinking and decision-making. AI agents are now playing substantial roles in replacing or collaborating with humans in fields previously considered uniquely human—such as coding, shopping support, business strategy analysis, and advertising copy generation. This has led to an ongoing transformation of the structure of industries and the very concept of work.

Amid these changes, it has become increasingly important for humans to find ways to harness AI as a tool to enhance their own abilities and work more creatively and efficiently.

Through keynote lectures and panel discussions, the forum aims to serve as a venue for intellectual exchanges in which we can explore the intersection of AI and social transformation, and together envision the future.

Keynote Speeches

The Future Development Landscape Shaped by AI

— Transformations Through Agentic AI and Physical AI

SASAKI Akira

Since the emergence of ChatGPT in 2022, generative AI has become a familiar presence in our daily lives. With the advent of Agentic AI in 2025, programming is increasingly becoming a task performed by AI. In this lecture, we will explain how Agentic AI is transforming development processes and business models, and introduce the latest cases of Physical AI, which is regarded as the next wave.

Robotics Research, Social Implementation, and System Integration at AIST

ANDO Noriaki

AIST promotes research and development of "intelligent systems" by integrating robotics and artificial intelligence (AI), aiming to address social challenges and strengthen Japan's industrial competitiveness. This lecture provides an overview of robotics research at AIST and an introduction to system integration initiatives aimed at the social implementation of research results.

Latest Trends in Generative AI and Business Application Possibilities

MORISHITA Makoto

The rapid evolution of Generative AI, represented by Large Language Models (LLMs), is transforming industrial structures and the way we work. Its strategic application is now a crucial factor in companies' competitiveness. In this presentation, we will introduce the latest research findings and global trends in Generative AI, and showcase our company's initiatives for creating new value using AI. We will also discuss the future of business being shaped by human-AI collaboration and explore the potential of its industrial applications.

Panelist Introduction

INOUE Takuhiro

Principal Researcher / Technical Evangelist, Technology Research Laboratory, Cresco Ltd.,

Visiting Associate Professor, Kanazawa Institute of Technology

Inoue specializes in the application of generative AI, conducting research on enhancing system development processes in the upstream phase and on review methodologies using multiple AI agents. He provides consulting services to help companies apply AI to their business challenges. Currently, he is developing educational materials for End-to-End autonomous driving models and actively contributes to the community through writing, lectures, and other outreach activities.



Research Center & Cluster Achievements Presentation Keywords



- ☆ **AI•Machine Learning** AI Agents & Agentic AI, Machine Learning, Neuromorphic AI, AI Edge Devices
- ☆ **Data Pattern, Visualization** Data Science, Archived Data Science for Lunar and Planetary Explorations, Big Data, Pattern Recognition & Mining, High-Dimensional Data Visualization
- ☆ **Applications** Medical Engineering, Creative Support Systems, Remote Sensing
- ☆ **Computing System** Cyber-Physical Systems, High Performance Computing, Quantum Computing Applications, 6G Network Computing, Circuit Design
- ☆ **Security** Cyber Security
- ☆ **Industry-Academia Collaboration** Industry-Academia Collaboration, Cooperative Research