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Part 1 : Research Center & Cluster Achievements Presentation			
09:00 -	Opening Remarks Chairperson of the Board of Executives / President the UoA TSUKAHARA Tsuneo		
	Science and Engineering for Space Development Powered by ICT in Academia and Industries ARC-Space DEMURA Hirohide		
	Framework for Robot Software Development with Cyber-Physical System and Interactive Online Test System ARC-Robot NARUSE Keitaro		
	Efforts Toward Autonomous Driving for Small Vehicles in IoT Cluster ARC-IoT OKUYAMA Yuichi		
	Vision AI System Based Human Activity Recognition and Deepfake Countermeasures ARC-Vision TOMIOKA Yoichi		
10:05 - 10:25	Break		
10:25 -	Acceleration of Numerical Linear Algebra in Quantum and Astrophysical Simulations High Performance Computing NAKASATO Naohite		
	Study for Generating a Geological 3D Map of a Planetary Surface Satellite Data Utilization OHTAKE Makiko		
	Computation Meets Communications in the 6G Networks Integrated Computation-Communication pLatform PHAM Tuan Anh		
	Smart Communication Mechanisms for Building Digital Twins Intelligent Transportation Systems RAGE Uday Kiran		
	Agentic Tools for ML System Development Automatic AI System Design MARKOV Konstantin		
12:00 - 13:00	Lunch Break		
Part 2 : Keynote Speeches and Panel Discussion			
12:00 12:40			
13.00 - 13.40	Keynote Speech 1 "Prospects of Edge Al Computing Based on Nonvolatile Logic"		
	Director and Professor, Research Institute of Electrical Communication, Tohoku University		
13:40 - 14:20	Keynote Speech 2 "Wet Interface Engineering for the Skin-Surface Chemical Sensing"		
	NAGAMINE Kuniaki Associate Professor, Graduate School of Organic Materials Science, Yamagata University		
14:20 - 15:00	Keynote Speech 3 "How Should We Live with Advanced Al?"		
	MATSUBARA Hitoshi		
	Professor, Department of Information and Computer Science, Faculty of Engineering, Kyoto Tachibana University		
15:00 - 16:00	Panel Discussion "Changes in Knowledge, People, and Society Brought About by AI"		
	HANYU Takahiro • NAGAMINE Kuniaki • MATSUBARA Hitoshi		
	SASAKI Akira (President and CEO, GClue Inc. and FaBo Inc.)		
	Chair : Professor CHEN Wenxi		
16:00 - 16:05	Closing Remarks Dean of Graduate School PAIK Incheon		
Cluster Poster Exhibition			
Cluster Poster Exhibition			
Als impact on Computer Science Education: Empowering Future Innovators			

Al's Impact on Computer Science Education: Empowering Future Innovators Al/DS-driven Innovative Education : HAMADA Moha	amed, WATANOBE Yutaka, ROY Debopriyo, EBINA Shoji		
 Industry-Academia Collaboration Initiatives Centered on Data Science 	Application of Data Science : HASHIMOTO Yasuhiro		
Innovations in IoT and Digital Security through AI and Blockchain Technologies Information Security : NAKAMURA Akihito, SU Chunhua, KACHI Yasuyuki			
 Smart Design - A Knowledge-Centered Human-Computer Collaboration Smart Design : YOSHIOKA Rentaro, KOHIRA Yukihide, TAKAHASHI Shigeo, NISHIDATE Yohei, WATANOBE Yutaka 			

Part 3 : The Graduate School Fair Organizer : UoA IEEE Student Branch 16:15 - 17:15 Poster Session by graduate students

https://web-ext.u-aizu.ac.jp/conference/ieeeuoas/

Chair : PAIK Incheon, SHIN Jungpil

For the latest information, please check the 2D code at the top. <Contact Us> E-mail : cl-planning@u-aizu.ac.jp The University of Aizu Planning Section, Planning and Coordination Division

UoA Joint Research Forum 2024 Outline

With the rapid development of generative artificial intelligence (AI) such as GPT over the past two years, people are talking about the arrival of Artificial General Intelligence (AGI) that will surpass human capabilities in the not-too-distant future.

It should also be acknowledged that many professions have recently experienced significant changes due to the emergence of AI technologies capable of chatting, generating images, videos, and programs with human-like abilities.

Against this backdrop, computer-related education, research, and new business are becoming increasingly important, and the University and industry must collaborate closely to explore how we can respond to and cooperate in these areas.

At this critical juncture, our university aims to provide a platform for keynote speeches and panel discussions to examine and debate these issues from multiple perspectives.

Introduction of Off-Campus Speakers

HANYU Takahiro (Tohoku University)

1984: B.E., Electronic Engineering, 1986: M.E., Electronic Engineering, 1989: D.E., Electronic Engineering from Tohoku University

April 2022 – Present: Professor and the director at the Research Institute of Electrical Communication, Tohoku University

Research Interests: His focus is on nonvolatile logic circuits and their applications to ultra-low-power and/or highly dependable VLSI processors, post-binary computing, and its application to brain-inspired VLSI systems and edge AI hardware.

Awards:

2000: Sakai Memorial Award from the Information Processing Society of Japan

2002: Judge's Special Award at the 9th LSI Design of the Year from the Semiconductor Industry News of Japan

2007: Special Feature Award at the University LSI Design Contest from ASP-DAC

2009: APEX Paper Award of Japan Society of Applied Physics

2010: Excellent Paper Award of IEICE, Japan

2010: Ichimura Academic Award

2010: Best Paper Award of IEEE ISVLSI 2010

2012: Paper Award of SSDM 2012

2014: Best Paper Finalist of IEEE ASYNC 2014

2015: Commendation for Science and Technology by MEXT, Japan

Membership: Senior Member of the IEEE

◆NAGAMINE Kuniaki (Yamagata University)

Education:

2002: B. Eng. (Chemistry), 2004: M. Eng. (Chemistry), 2007: Ph.D. Env. Sci. (Chemistry) from Tohoku University Professional History:

2006-2007: Research Fellowship for Young Scientists (DC2)

2007-2008: Central Research Laboratory, Hitachi, Ltd.

2008-2009: COE Fellow, Tohoku University

2009-2011: Research Assistant Professor, Tohoku University

2011-2016: Assistant Professor, Tohoku University

2017-2021: Leading Initiative for Excellent Young Researchers

2017-Present: Associate Professor, Yamagata University

MATSUBARA Hitoshi (Kyoto Tachibana University)

1959: Born in Tokyo,

1981: B.S. in Information Science

1986: Ph.D. from the Graduate School of Engineering, University of Tokyo

1986: Electrotechnical Laboratory (now the National Institute of Advanced Industrial Science and Technology (AIST))

2000: Professor, Future University Hakodate

2020: Professor, the University of Tokyo

2024: Professor, Kyoto Tachibana University

Former President of the Japanese Society for Artificial Intelligence

Former President of the Society for Tourism Informatics of Japan

Former Vice President of the Information Processing Society of Japan Founder of RoboCup

SASAKI Akira (President and CEO, GClue Inc. and FaBo Inc.)

Ph.D. in Engineering. He plays a pivotal role at FaBo Inc. as one of the few NVIDIA Jetson Education Partners in Japan, specializing in the development and sale of educational kits that integrate AI with robotics.

Under his leadership, FaBo Inc. placed first in the Autonomous Driving Mini-Car Battle organized by Toyota Technical Institute in both 2021 and 2023.

Currently he provides consulting and R&D support across a wide range of AI technologies, from large language models (LLM) to edge AI.

<Research Center & Cluster Achievements Presentation Keywords>

Archived Data Science for Lunar and Planetary Explorations / Cyber-Physical Systems / Artificial Intelligence (AI) / Machine Learning / Circuit Design / Pattern Recognition / High-Dimensional Data Visualization / Creative Support Systems / Big Data / Remote Sensing / Cyber Security / Pattern Mining / AI Edge Devices / AI Agents / Medical Engineering / Data Science / High Performance Computing / Quantum Computing Applications / 6G Network Computing / Industry-Academia Collaboration / Cooperative Research