

UoA Joint Research Forum 2022

August 21 (Sun.) - 22 (Mon.)



↑ web page



↑ Application

Organizing by University of Aizu, CAIST, AI Center, ARC-Space

■ Online (Zoom Meetings) ※To attend Part3, please register using the URL given there.

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9:30 ~

Part 1: Academic Exchange

※English

- 9:30 - 9:35 **Opening remarks** Chairperson of the Board of Executives / President The University of Aizu **MIYAZAKI Toshiaki**
- 9:35 - 9:40 **Remarks from the Director of Research** Vice Chairperson of the Board of Executives The University of Aizu **ZHAO Qiangfu**
- 9:40 - 10:25 **Research Center Reports**
- 1 『Ecosystem for Analysis and Visualization of Minor Body Exploration Data』 ARC-Space **HIRATA Naru**
 - 2 『Cyber-Physical System and Robot Data Repository』 ARC-Robot **NARUSE Keitaro**
 - 3 『P2P-Glove: Detection of Both Hand Tactile and Hand Gesture Only with E-Textile Force Sensor』 ARC-IoT **JING Lei**
- 10:25 - 10:40 Break
- 10:40 - 11:40 **Research Cluster Reports**
- 4 『Big Data Analysis for Smart Society』 Smart Service **TRUONG Cong Thang**
 - 5 『Smart Educational Environment: Information and Programming』 AI/ML for Education **WATANOBE Yutaka**
 - 6 『A Knowledge-Centered Human-Computer Collaboration』 Smart Design **YOSHIOKA Rentaro**
 - 7 『Semantic Repository to Share Knowledge of Deep Learning Models』 AutoAI **PAIK Incheon**
- 11:40 - 12:10 Q&A
- 12:10 - 13:10 Lunch Break
- 13:10 - 14:40 **Research Cluster Reports**
- 8 『Edge Learning: Enabling Distributed Machine Learning in Cloud-Edge Environment』 Advanced Networking **LI Peng**
 - 9 『Cybersecurity in the DX era』 Security **NAKAMURA Akihito, SU Chunhua**
 - 10 『Towards Industry-Academia Collaboration in Data Science Engineering』 Data Science **HASHIMOTO Yasuhiro**
 - 11 『Activity of Satellite Data Utilization Cluster』 Satellite Data Utilization **OHTAKE Makiko, Rage Uday Kiran**
 - 12 『Vision and Sensor Based Activity Recognition Using Machine Learning Approaches』 Vision Computing Platform **SHIN Jungpil**
 - 13 『AI's Implementation in Clinical Medicine』 Biomedical Information Engineering **ZHU Xin**
- 14:40 - 15:10 Q&A
- 15:10 - 15:20 **Closing speech** Vice Chairperson of the Board of Executives The University of Aizu **ZHAO Qiangfu**

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9:00 ~

Part 2: University and Social Contribution

※Japanese / Simultaneous English interpretation available for Zoom

- 9:00 - 9:40 **Keynote speech 1** 『Implementation of Digital Infrastructure for Digital Garden City Nation』
The University of Tokyo Graduate School of Information Science and Technology / Professor **ESAKI Hiroshi**
- 9:40 - 10:20 **Keynote speech 2** 『Information and Communication Technology Opens the Way to Carbon Neutrality in Japan』
The University of Electro-Communications Info-Powered Energy System Research Center / Director, Professor **YOKOGAWA Shinji**
- 10:20 - 10:30 Break
- 10:30 - 12:00 **Panel Discussion** -Advanced Research at Universities and Social Implementation by Industry- Chair: **CHEN Wenxi**
- Panelists**

The University of Tokyo Graduate School / Professor **ESAKI Hiroshi**

The University of Electro-Communications / Professor **YOKOGAWA Shinji**

Information System Engineering Inc. Representative Director, President **KURODA Satoshi**


Tohoku Techno Arch Co., Ltd. President **MIZUTA Takanobu**

The University of Aizu Director of UBIC **ISHIBASHI Shiro**
- 12:00 - 12:10 **Closing remarks** Vice Chairperson of the Board of Executives The University of Aizu **ZHAO Qiangfu**
- 12:10 - 13:10 Lunch Break

13:10 ~

Part 3: The Graduate School Admission Fair

※English / Japanese

- 13:10 - 13:20 **Opening remarks** **PAIK Incheon, YOSHIOKA Rentaro**
- 13:20 - 14:50 **Research presentations by graduate students (online, about 30)**
-For more information on application, presentations, etc., please visit the following web page. 
<http://web-ext.u-aizu.ac.jp/conference/ieeeuoas/>
- 14:50 - 15:20 Q&A
- 15:20 - 15:30 Break
- 15:30 - 15:50 **Information Session for Graduate School Admission (Dean of the Graduate School)**
- 15:50 - 15:55 **Closing remarks** Vice Chairperson of the Board of Executives The University of Aizu **ZHAO Qiangfu**



Contact details : The University of Aizu Planning and Collaboration Division
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※The above program contents are subject to change.

※For the latest information, please check the URL below or 2D code above.

<https://u-aizu.ac.jp/en/information/joint-research-forum-2022.html>

■ Application Limit: 12:00 on August.19.

Entry fee : free

Pre-registration required

Part 1: Academic Exchange

In Part 1 of the forum, each cluster (research team) and center will provide an overview of their research and its direction.

Keywords:

Planetary Science / Earth Observation / Satellite Data Utilization / Mobile Robots / Digital Twin / Cyber-Physical Systems / Artificial Intelligence (AI) / Machine Learning / Deep Learning / Edge Learning / Pattern Recognition / Smart Society / Big Data / Data Science / Smart Education / Human and Computer Cooperation / Creative Support Systems / Computer Vision / Behavior Recognition / Automatic Generation of AI Systems / Semantic Web Services / Cyber Security / Software Safety / AI for Medicine / Medical Image Processing / Industry-Academia Collaboration

Part 2 : University and Social Contribution

In Part 2 of the forum, Professor Esaki of the Graduate School of the University of Tokyo, Chief Architect of the Digital Agency, will give a keynote speech on the Digital Garden City National Concept adopted by Aizu Wakamatsu City. Professor Yokogawa, Director of the University of Electro-Communications Info-Powered Energy Systems Research Center, will introduce his research, which has social implementation in mind.

There will also be a panel discussion including the two keynote speakers, as well as include representative directors of companies that are actively engaged in R&D with universities, utilization of university intellectual property, and technology transfer. From our university, Professor Ishibashi, Director of University Business Innovation Center (UBIC), who has served as coordinator of industry-academia-government collaboration for many years, will participate in the panel discussion. The moderator will be Professor CHEN Wenxi, who has successfully conducted joint and funded research with many companies, other universities, hospitals, etc., and has served as Director of CAIST and Director of the Division of Information Systems.

Introduction of Off-Campus Speakers



ESAMI Hiroshi

Professor, the University of Tokyo Graduate School of Information Science and Technology

He received master's degree in electronic engineering from Kyushu University in 1987 and joined TOSHIBA Corporation the same year. He became a visiting researcher at Bellcore Corporation in 1990 and Columbia University in 1994. He became an associate professor at the University of Tokyo's Computer Centre in 1998. He has been in his current position since 2005. He received a Doctorate of Engineering from the University of Tokyo. He has served as the representative of WIDE Project, the representative of MPLS-JAPAN, an Executive Director of IPv6 Promotion Council, Chairman of JPNIC, Representative of Green University of Tokyo Project, Vice Chairman of Japan Data Center Council / Chairman of Steering Committee, Chairman of IPTV FORUM JAPAN, Chief Architect of the Digital Agency, and other positions.



YOKOGAWA Shinji

Professor and Director of the University of Electro-Communications Info-Powered Energy System Research Center

He received master's degree in Electronics and Informatics in 1994 from The University of Electro- Communications and joined NEC Corporation the same year. He became Associate Professor at the Ministry of Health Polytechnic University in 2013. He became Associate Professor at the Info-Powered Energy System Research Center at the University of Electro-Communications in 2016. He became a Professor at the University of Electro-Communications in 2019. He arrived at his current position in 2021. His areas of expertise include reliability engineering, quality control, energy storage, equipment life prediction, and failure physics.



KURODA Satoshi

Information System Engineering Inc / Representative Director, President

After graduating from Chuo University, he was involved in the implementation in Japan of technical communication techniques imported from the U.S. along with computer technology in the 1980s. In the course of applying these techniques to the fields of medical and industrial equipment, he has been involved in the knowledge creation and systematization of expressive techniques and business processes. He is involved in research and development of technologies for the codification and structuring of tacit knowledge as a system. He has been a part-time lecturer at Kyoto University Graduate School of Medicine since 2018 and an invited associate professor at Osaka University, Center for the Study of Co Design, and will teach communication techniques as an invited faculty member at Osaka University Graduate School of Medicine, Department of Health Sciences from 2022.



MIZUTA Takanobu

Tohoku Techno Arch Co., Ltd. / President

He received his PhD in agricultural science in Graduate School of Agricultural and Life Sciences from the University of Tokyo in 2006. He became a Postdoctoral Research Fellow at the University of Tokyo in 2006. He has served as Technology Licensing Manager at Tohoku Techno Arch Co., Ltd. since 2008, Director since 2011, Executive Director since 2012, and President since 2014. He was appointed as Representative Director, Vice Chairman of the University Network for Innovation and Technology Transfer (UNITT) in 2018. In September 2021, he was certified as a Registered Technology Transfer Professional (RTTP) by the Alliance of Technology Transfer Professionals (ATTP).