



# UoA News 14

※Students' grade years are those at the time of the award.

## ARC-Space exhibited in "Robot & Aerospace Festa Fukushima 2020".

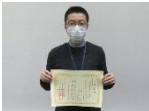


ARC-Space exhibited the results of its research at the Robot & Aerospace Festa Fukushima 2020, which was held for two days from Friday, November 27 to Saturday, November 28, at the Big Palette Fukushima in Koriyama City.

The exhibition was visited by 3,000 visitors over two days.

At the ARC-Space exhibition booth, a three-dimensional model of the asteroid Ryugu, which Hayabusa2 touched down on, was displayed, as well as panels.

## YOSHINO Daishi(Special Research Support Staff) and his colleagues won the Best Presentation Award at the 21st SI Division Conference of the Society of Instrument and Control Engineers (SI2020).



YOSHINO Daishi(Special Research Support Staff) and his colleagues at the Research Center for Advanced Information Science and Technology (CAIST), Aizu Research Cluster for Robot (ARC-Robot) have won the Grand Prize and four Encouragement Prizes in the RT Middleware Contest 2020 at the 21st Conference on System Integration of the Society of Instrument and Control Engineers (SICE), held online December 16-18, 2020.

**Title of lecture** : IoT system construction method by combining OpenRTM-aist MQTT communication modules and Mosquitto MQTT broker.

**Co-authors** : WATANOBE Yutaka Senior Associate Professor, YAGUCHI Yuichi Associate Professor, NAKAMURA Keita Associate Professor, NARUSE Keitaro Professor,

## Prof. Demura of the University of Aizu paid a courtesy visit to the Governor of Fukushima Prefecture to report the results of Hayabusa2.



On December 22, 2020, Professor Hirohide Demura, Director the University of Aizu Research Center for Space Informatics, paid a courtesy visit to Fukushima Governor Uchibori together with companies in Fukushima Prefecture that were involved in the technological development and manufacturing of Hayabusa2.

Prof. Demura reported on the wide range of contributions made by the university's faculty and students in the fields of image analysis, etc., in the selection of Hayabusa2's touchdown point on Ryugu and the artificial crater formation point.

## "Wildlife Detection System" Published in ITmedia News.



On December 23, 2020, the "Wildlife Detection System," a demonstration project being carried out by the Prof. SAITO Hiroshi, Senior Associate Professor in Computer Organization Laboratory at the University of Aizu and his team of the Department of Computer Architecture, was featured in ITmedia News (an IT news site).

This article is a follow-up to the article of November 26, 2020.

## Selected as a Regional Open Innovation Center (Regional Contribution Type).

The University of Aizu's University-Business Innovation Center (UBIC) and The University of Aizu Revitalization Center (ARC) have been selected as a "Regional Open Innovation Center (Regional Contribution Type)" by the Ministry of Economy, Trade and Industry.

These regional collaboration centers are selected for their proactive activities in industry-academia collaboration with local companies and local governments, aiming to solve local problems and promote the local economy.

## Associate Professor YAGUCHI won the Excellent Lecture Award at the 21st SI Division Conference of the Society of Instrument and Control Engineers (SI2020).



Associate Professor YAGUCHI Yuichi have won the Excellent Lecture Award in the 21st SI Division Conference of the Society of Instrument and Control Engineers held online December 16-18, 2020.

**Title of lecture** : A Mesoscale Meteorological Observation Using Multiple UAV ~ Path planning for 8 UAVs flight to 1200m height ~

**CCo-authors** : MATSUMOTO Yoshikatsu / NAKANO Shuzo (East Japan Accounting Center Co., Ltd.)  
YAMAGISHI Kazuhiko / ITAHA Masayuki (e-Robotics Fukushima, Co. Ltd.)

**Title of lecture** : A Consideration of Security Analysis for UAS

## Donation from Aizu Industrial Forum to support the lives of new students.



Following the 2021 General Membership Meeting of the Aizu Industrial Forum on January 27, President MIYAZAKI gave a special lecture on the difficult situation of Aizu University students in the wake of the Corona disaster, and stressed the plight of the students. In response, OUCHI Shigeyuki, the president, presented the President with a donation to support the lives of the soon-to-be new students.

## Announcement of "The 6th UoA Robot Symposium"



On March 17, 2021, the University of Aizu Revitalization Center and the Aizu Robotics Research Cluster held the 6th University of Aizu Robot Symposium online and announced the results of their 2020 research on the RTC-Library-FUKUSHIMA website.

**Paper on Observational Results of Asteroid Explorer "Hayabusa2" Published in the British Scientific Journal Nature Astronomy.**

A research paper based on the direct observation of the subsurface materials of the asteroid Ryugu by the asteroid explorer Hayabusa2 was published in the British online journal Nature Astronomy on January 4, 2021 (January 5, Japan time).

**Paper title :** Thermally altered subsurface material of asteroid (162173) Ryugu

**Main Author :** KITAZATO Kohei (Associate Professor, The University of Aizu)

**Author affiliated with the University of Aizu :** OHTAKE Makiko (Professor), HIRATA Naru (Senior Associate Professor)

HONDA Chikatoshi (Associate Professor), YAMADA Ryuhei (Associate Professor)(Excerpts from University of Aizu faculty only・Order by author of paper)

**AY 2020 Spring Doctoral Dissertation Presentations.**

On February 3, 2021, the AY 2020 Spring Doctoral Dissertation Presentations were held.

Five students gave presentations on the achievements of their doctoral research at the Graduate School of Computer Science and Engineering.

After the introduction of the students, each student gave a presentation as the culmination of his/her research.

**VAZHENINA, Daria** "Advanced Methods for Model Learning in Speech Recognition "

**HERATH MUDIYANSELAGE Isuru Nihathamana Jayarathne** " EEG Analysis for Authentication and Affect-Guided Soundscape Exploration "

**YANG, Qinglin** "Optimization of Resource Allocation for Edge Computing in Efficient Deep Learning Services "

**SHRESTHA, Shashank** " Open Data Integration Through Polystore Data Management Systems "

**KHAUSTOV, Victor** " Machine Learning-Based Team AI in a Cooperative Multi-Agent Game "



**The video interview with Professor Demura is now available on the FUKUSHIMA INDEX section of the Reconstruction Agency's "Fukushima Now" website.**



In the interview, Prof. Demura talked about the relationship between the University of Aizu faculty and students and Hayabusa2, as well as his thoughts on the next 10 years of Fukushima.

The video can be viewed on the Youtube channel of the Reconstruction Agency.

**Service Development Engineer Experience "Hackathon to Test Your Skills" was held.**



The University of Aizu, in collaboration with TIS Inc. (TIS), held the "Hackathon to Test Your Skills" on February 15-16, 2021.

The "Hackathon to Test Your Skills" was held under the theme of "Developing Apps to Solve Local Problems" as a summary of the study sessions (4 sessions in total) held by the University of Aizu and TIS since October 2020.

**The "Aizu Reverse Job-hunting Festival", an exchange event between Aizu University students and companies in the prefecture, was held.**



The "Aizu Reverse Job-hunting Festival" was held online on February 26, 2021.

This event is the opposite of a regular joint corporate information session, in that corporate recruiters visit students' booths and conduct one-on-one interviews with them.

This is the fifth time we have held this event.

**"IoT Hands-on," a study session on IoT technologies using various environmental sensors, was held.**



"IoT Hands-on," was held on March 8 and 9, 2021.

N.S.C Co. Ltd. engineers served as instructors for this event, where they connected various sensors to the Raspberry Pi to create a simple system.

**The University of Aizu Students Win Judges' Special Prize at the 2020 Entrepreneur Koshien.**



At the "Entrepreneur Koshien" held on Monday, March 1, 2021, the University of Aizu team won the "Judges' Special Award" for their business plan of "ELECLO" a product that allows users to switch clothing designs freely anytime and anywhere to enjoy fashion.

**<Team members>**

Mr. TANIKAWA Naoya (1-year student), Mr. KAKIZAKI Manato (1-year student), Mr. SUKEGAWA Takuya (3rd-year student),

Ms. HASHIMOTO Shihomi (3rd-year student),

Mr. YOSHIDA Kenta (1-year student), Mr. TOMIYAMA Yuta (3-year student), Mr. ICHIMARU Yuya (1-year student of

Sophia University)

**Mr. KOBAYASHI Tatsuro, a 2nd year master's student at the University of Aizu, gave a lecture at the "Prefectural Citizens Symposium on Fukushima Reconstruction".**



In his lecture, Mr. Kobayashi talked about his research on the Hayabusa2 project, his involvement in Fukushima Prefecture, and his thoughts on reconstruction through his student life.

**The Acoustical Society of America (ASA) published paper from University of Aizu researchers.**



ASA published online a study led by Prof. Julián Villegas of the University of Aizu on March 17, 2021. The paper provides new insights into the effect of task and language nativeness in the Lombard effect.

**Name of Journal :** Journal of the Acoustical Society of America (JASA)

**Title of paper :** Effects of task and language nativeness on the Lombard effect and on its onset and offset timing

**Authors :** Julián Villegas (Computer Arts Laboratory), Jeremy Perkins and Ian Wilson (CLR Phonetics Laboratory)

**The University of Aizu's "Efforts to Support Women's Activities through the Implementation of the Women's ICT Human Resource Development Project" was selected to receive the Engineering Education Award.**



On March 18, 2021, The University of Aizu's Reconstruction Support Center's efforts to develop female IT human resources since 2017 have been highly evaluated, and the Center has been selected to receive the 25th (FY2020) Engineering Education Award from the Japan Society for Engineering Education. This course provides recurrent education for women who are currently unemployed, working as non-regular employees, or seeking reemployment after retirement due to childbirth or childcare.

**Degree Conferment Ceremony for AY 2020 Held.**



On March 19, 2021, the degree conferment ceremony for AY2020 was held at the University of Aizu auditorium. 263 individuals, including 210 students graduating from the Undergraduate School of Computer Science and Engineering, 48 students completing the Master's Program and 5 students completing the Doctoral program were conferred with degrees that will help them contribute to society in their own way.

**Aizu University ranked 24th in "The World University Ranking Japan Edition 2021"**



On March 25, 2021, The UoA was ranked in 24th of "THE Japan World University Rankings 2021" published by the British educational journal "Times Higher Education", It was ranked 24th, the same as last year. In this ranking, they evaluate the universities with 16 items in 4 fields; Resources, Engagement, Outcome, Environment. The UoA was 2nd in the ranking of the public universities.

**The University of Aizu held a ceremony to confer the title of Professor Emeritus and a ceremony to award long service.**



In recognition of outstanding research and educational achievements and long-term contribution to the University, a ceremony was held on 30 March 2021 to confer the title of Professor Emeritus and to award long service to the professors who will retire at the end of FY2020.  
 Professor SCHMITT Lothar M (Professor Emeritus and Long Service Award)  
 Professor BHALLA Subhash (Professor Emeritus and Long Service Award)  
 Professor KLYUEV Vitaly (Professor Emeritus)  
 Professor LUBASHEVSKIY Igor (Professor Emeritus)

**For the beginning of the new academic year, new posters to further raise awareness on COVID-19 prevention have been displayed.**



Four students, who belong to Professor Nobumasa Takahashi's seminar group of Aizu Junior College, designed the 12 over two-meter long posters, and the basic strategies for preventing COVID-19 are conveyed, such as "Wear a mask," "Keep your hands virus-free," and "Keep your distance." The main character, Beko-rin, who is a personified character of Akabeko (a folk art toy in Aizu) and three others have been designed for these posters.

**The paper of a researcher at the University of Aizu has been decided to be published in a journal edited by the American Mathematical Society (AMS).**

A paper of 120 pages by KIHARA Hiroshi Senior Associate Professor at the University of Aizu, has been decided to be published in Memoirs of the American Mathematical Society, a publication of the American Mathematical Society.

**Name of Journal** : Memoirs of the American Mathematical Society  
**Scheduled date of publication** : undecided (already accepted)  
**Title of paper** : Smooth Homotopy of Infinite-Dimensional  $C^\infty$ -Manifolds  
**Author** : KIHARA Hiroshi (Mathematics and Physics Laboratory Group)

**AY 2020 Excellent Student Award.**

March 30, 2021, the top performing students for Academic Year 2020 were awarded certificates. The awardees are listed below. The top performers amongst 4th-year students were awarded with the President's Award and Awards of Excellence at the degree conferment ceremony.

**First-year students** IJU hikari , KATO yume , ISHII daichi,  
**Second-year students** HOSHINO yusui , MURAKAMI koshin , SAKAI daiki,  
**Third-year students** ITO ryoya , MURAKAMI hiromu , SUDO ayako,



**AY 2021 Entrance Ceremony was held.**



On April 2, 2021, the entrance ceremony for the 2021 academic year was held in two separate sessions, with only the incoming students participating, in order to prevent the spread of the new coronavirus. A total of 316 new students, 250 to the undergraduate school, 57 to master's program, and 9 to the doctoral program were admitted by President MIYAZAKI Toshiaki.

**We received the donation to the UoA Student Living Expense Support Fund from Aizu Industrial Forum.**



At the regular meeting of the Aizu Industrial Forum, held on April 7, 2021, President Shigeyuki Ouchi presented a donation to support student life to Chancellor and President Miyazaki. The fund will be used to support students economically affected by the COVID-19 pandemic. We also received donations from the Aizu Industrial Forum to The Support Association for International Students of the University of Aizu (SAISUA).

**Prof. Makiko Otake received the "2021 Minister of Education, Culture, Sports, Science and Technology Award".**

On April 14, 2021, Professor Makiko Otake of the University of Aizu was awarded the Science and Technology Prize of the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology for 2021.

<Awarded Achievement> Contribution to international space exploration through analysis of KAGUYA and other exploration big data.

<Professor Otake's contributions>

It has played a major role in the creation of highly accurate geological maps, which have made it possible to estimate underground materials important for resource exploration.

※Professor Otake was a member of Japan Aerospace Exploration Agency Institute of Space and Astronautical Science until February 2020, and this award is based on his contributions at that time.

**ARC-Space was presented with a metal model of Asteroid Ryugu from Ishikawa Factory Corporation and Tamatec Corporation.**



On April 16, 2021, ARC-Space was presented with a metal model of Asteroid Ryugu by Ishikawa Factory Corporation and Tamatec Corporation.

The model was made based on the shape data of the asteroid Ryugu, which was created and surveyed by the faculty and students of the University of Aizu. The model is made of machined aluminum and anodized to be jet black, close to the actual color of Ryugu, and weighs about 8 kg.

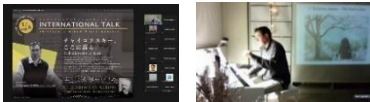
**University of Aizu Faculty Member Appointed as Advisor to the Prefectural Police on Cyber Crime.**



On April 22, 2021, Akihito Nakamura, Senior Associate Professor of Information Security at the University of Aizu, was appointed as the "Fukushima Prefectural Police Cyber Crime Countermeasure Advisor", continuing from the previous year.

**International talk was held.**

As part of the Global Lounge's activities, The Office for Strategy of International Programs(OSIP) holds "international talks". Through Zoom, international students will introduce the history, culture, food, and famous places of each country and region in English. (Participation was limited to students, faculty and staff of the University.)



On January 6th, 2021, a special edition of online international talk, which is a piano concert talk was held on Zoom. Sixty-three participants, including Japanese and international students, faculty members and staff members joined.

Prof. Evgeny Pyskhin (from the Software Engineering Lab) introduced Tchaikovsky, a Russian composer during the Romantic era. Tchaikovsky's work, "CHILDREN'S(?) ALBUM: TIME, METAPHORS, REDISCOVERIES" was introduced and performed. He also presented some other composers' pieces, including Wagner's, Liszt's, Scriabin's and Schumann's. It was rare to learn more about Russian music during the Romantic era and enjoy piano performances.



On February 3, 2021, Mr. Luu Xuan Son (4th year undergraduate student) was invited as a speaker. He introduced his country "Vietnam" and talked about its culture, food, festivals, etc. in English.



On April 28, 2021, Mr. Benno Bielmeier, a student at our partner university, Ostbayerische Technische Hochschule Regensburg (OTH Regensburg), was the speaker and introduced his student life in Germany in English.



**UoA students made the movie about the UoA's attractiveness and global environment.**



In order to let many people know about the University of Aizu (UoA)'s attractiveness and global environment, Ms. KASHIMOTO Kimika (2nd year undergrad) and Ms. NGUYEN Van Nhi (4th year undergrad) made a video of interviews with UoA senior classmen.

In the video, you can learn about the practical side of the University of Aizu, such as the research and education that our seniors have developed during their university life, and the influences they have had on their lives.



**Part 3**  
(Senior classmen version)  
(Uploaded by Youtube on December 24, 2020)

**Part 4**  
(Senior classmen version)  
(Uploaded by Youtube on January 29, 2021)

**Part 5**  
(Senior classmen version)  
(Uploaded by Youtube on March 3, 2021)



**The University of Aizu** Tsuruga, Ikki-machi, Aizu-Wakamatsu City, Fukushima, 965-8580, Japan

Planning and  
Collaboration  
Division

Tel: +81-242-37-2510  
Fax: +81-242-37-2546  
E-mail: cl-planpr@u-aizu.ac.jp

Student Affairs  
Division

Tel: +81-242-37-2723  
Fax: +81-242-37-2526  
E-mail: admission@u-aizu.ac.jp

<https://u-aizu.ac.jp/en/>

Mobile Site ▶

