



NAIST Project for Interns (NAPI)

Internship Dates: January 12 to 29, 2027

What is NAIST?

The [Nara Institute of Science and Technology \(NAIST\)](#) is a school for graduate studies situated in the advanced technology research area of Osaka-Nara-Kyoto.

What is NAPI?

The NAIST Project for Interns (NAPI) offers yearly internship opportunities for students coming mostly from the School of Science and Engineering (SOSE) of the Ateneo de Manila University (ADMU). Starting with NAPI 2027, the program will also accept students from De La Salle University (DLSU), further expanding its partnership with Philippine universities.



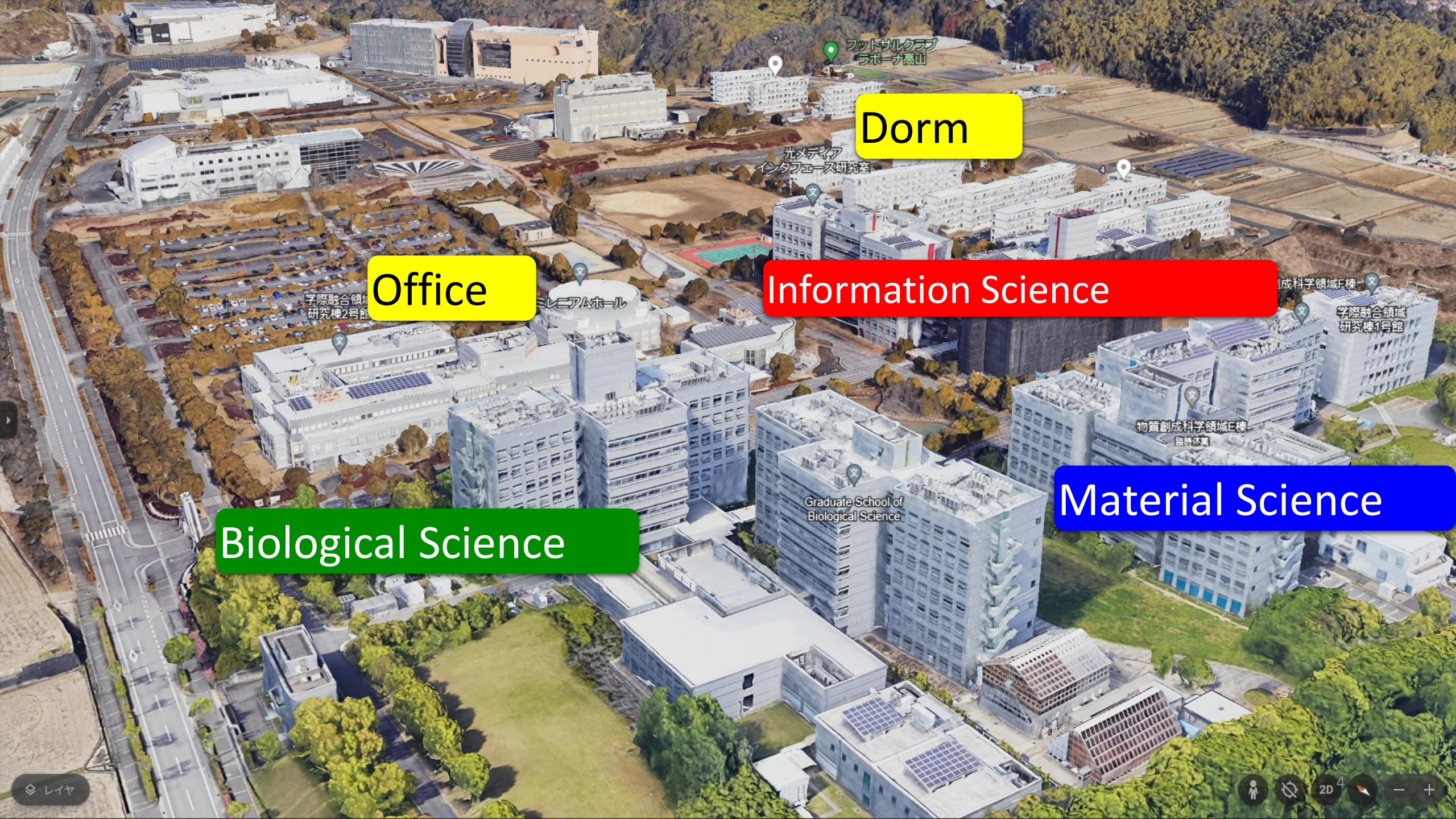


National University Corporation

Nara Institute of Science and Technology



We are looking for students, researchers or engineers who have fundamental academic skills, a clear vision, a resolve toward the future, and a strong interest in and motivation for advanced science and technology, regardless of their background or undergraduate major. Especially, we actively accept applicants who have the ability to reason logically and accurately express their thoughts, and those who are very inquisitive and the ability to tackle challenges.



Dorm

Office

Information Science

Biological Science

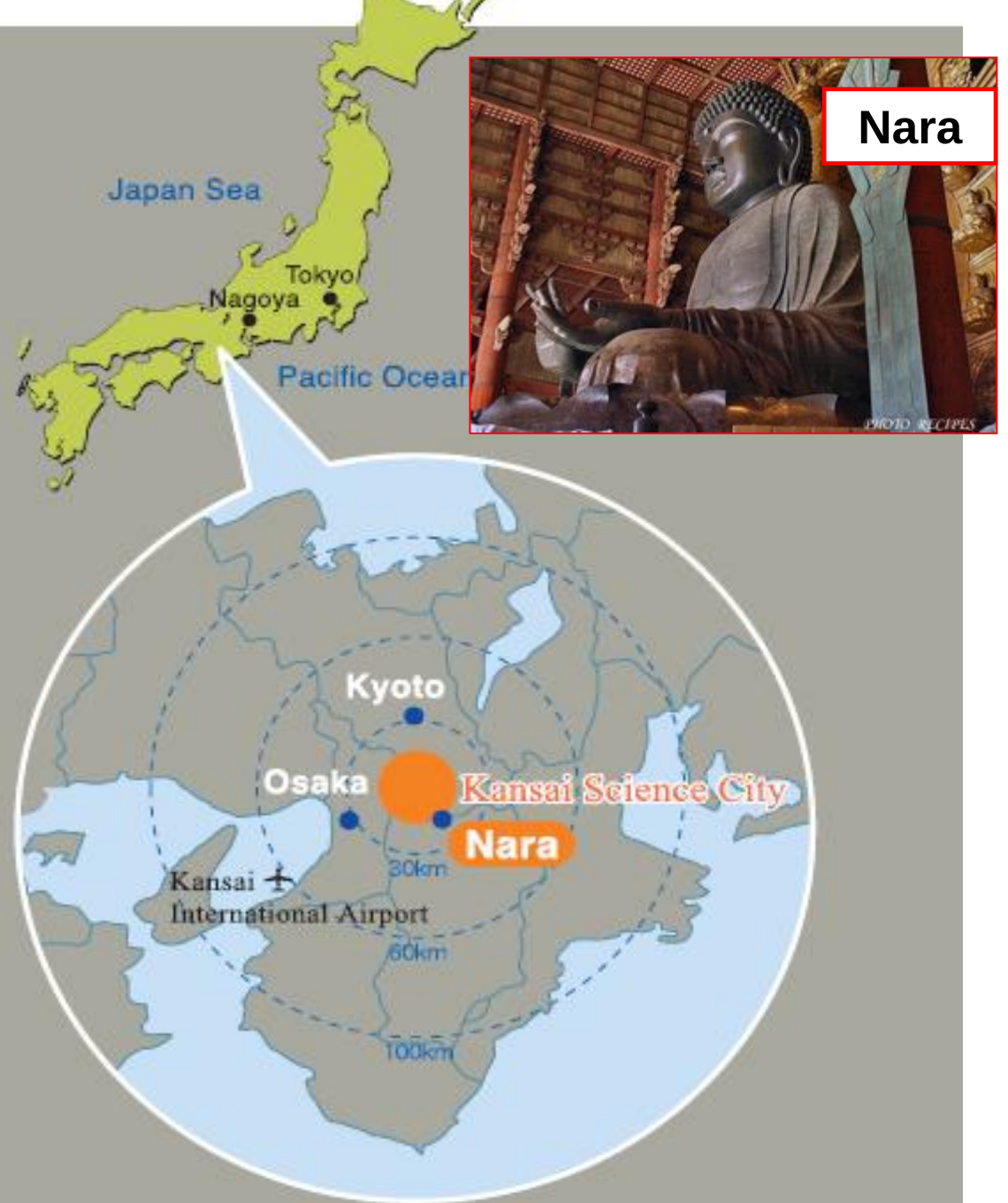
Material Science

Location

Osaka



Kyoto



What's Keihanna?



The Keihanna Science City (officially known as the Kansai Science City) is nestled in the green Keihanna hills stretching over Kyoto, Osaka, and Nara prefectures in western Japan.





Number of Faculty

As of May 1, 2026

	Professors	Associate Professors	Assistant Professors	Research Associates	Total
Current	59	41	93	1	194
Fixed-term faculty	(1)	(11)	(84)	(0)	(96)

Current Number of Students

As of May 1, 2026

Graduate School	Current Number of Students							Percentage of Female Students	
	Master's Program			Doctoral Program					Total
	1st Year	2nd Year	Total	1st Year	2nd Year	3rd Year	Total		
Science and Technology	417 (127)	404 (111)	821 (238)	124 (42)	124 (34)	167 (57)	415 (133)	1,236 (371)	30.0%



Master's Course : Curriculum considering those with a non-informatics background

Category	Subjects	Credits for completion
General	Technology and Professional Ethics, Philosophy of Science, Science Communication, Intellectual Property Right, Research Presentation, Research Writing, etc.	4
Intro- duction	Intro. to Information Science and Engineering, Intro. to Advanced Digital Technologies, Intro. to Biological Science, Intro. to Materials Science and Engineering	14 16 (Project Report)
Basic	Fundamentals of Information Science, Programming Course, etc.	
Special- ized	Subjects offered by each laboratory, human resource development subjects	
PBL	Information Science and Engineering PBL, Data SciencePBL	2
Research- based	Seminar I, II, Thesis Research, Specialized Project Research, Project Report	10 8 (Project Report)



Doctoral Course

10 credits required for completion

- The primary goal is to write papers for international conferences and scientific journals

FAQ... What is the difference between undergraduate, masters and PhD?

- Master's graduates are group leaders for a few members
- Doctoral graduates are project leaders

Research styles are various, so consultation with supervisor is important

- Some working students come everyday, or some usually work at the company and come occasionally
- Some students team up with Master's course students to run projects

Common and Laboratory own financial supports are available

- NAIST Granite Program (165,000yen/month), NAIST Granite-AI Program (250,000yen/month)

Europe **30**

Asia **48**

North America **7**

Oceania **2**

Africa **1**

South America **4**

2025年9月1日現在

International Partners List

97 institutions from 24 countries/regions (As of July 1, 2026)

Asia (51)

Country / region	Agreement type	Institution	Initial agreement date	Current agreement expiration date	Website
The Philippines	I	Ateneo de Manila University	2008.12.08	2029.2.20	↗
	I	University of the Philippines Diliman	2013.12.06	2028.12.05	↗
	I	De La Salle University	2026.01.23	2031.01.22	↗

As of May 1, 2025

	Master's Program	Doctoral Program	Research Students	Total
Pakistan	2 (1)			2 (1)
India	2	2 (1)		4 (1)
Nepal	1 (1)			1 (1)
Bangladesh	2	10 (3)		12 (3)
Sri Lanka	1 (1)	1		2 (1)
Myanmar		2 (2)		2 (2)
Thailand	9 (5)	8 (5)	3	20 (10)
Malaysia	4 (3)	15 (8)	2 (1)	21 (12)
Indonesia	9 (3)	48 (26)	3 (1)	60 (30)
The Philippines	3 (1)	25 (5)	1 (1)	29 (7)
South Korea	1	2	1	4

Total	344 (123)
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29% International students!



NAIST GSK

About the Recycling Market リサイクルマーケットについて

Introduction 紹介

We're a student-led group that organizes events and activities to support the student community—both international and Japanese—and promote sustainability. Want to meet new people, gain experience, and make NAIST even more fun and welcoming? [Join us!](#)

🌍 What We Do:

★ Welcoming & cultural events

★ Sports Day

★ Halloween Party

★ Social meetups

★ And most importantly the Recycling Market!

GSKは、国際・日本人学生を問わず、NAISTの学生コミュニティをサポートし、サステナブルな活動を行う学生団体です。新しい人と出会いたい、イベント運営に関わってみたい、学生生活をもっと楽しくしたい——

そんなあなたにぴったりなのが GSK (NAIST Global Student Network) です！[参加しませんか？](#)



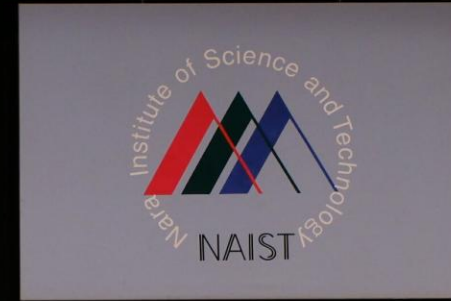
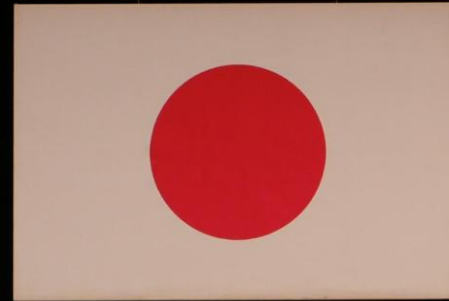
The dancers have to work together and dance in sync in order to avoid getting caught in between the bamboo.

This dance requires good stamina, energy, and, of course, a lot of trust.



無限の可能性、ここが最先端 - Outgrow your limits -

令和7年度 奈良先端科学技術大学院大学 学位記授与式 Commencement 2025



Careers after Graduation

Graduate School of Science and Technology

332 Graduates after Completion of Master's Program in 2021:

- Entered Doctoral Program: 61
- Entered the workforce: 260
- Return to sponsoring company / organization: 2
- Entrepreneur: 0
- Other: 9

SHISEIDO

Canon



OMRON
Sensing tomorrow™



ROHTO



FUJI XEROX

FUJITSU



NEC



BRIDGESTONE

RICOH

SEKISUI



muRata
村田製作所

88 Graduates after Completion of Doctoral Program in 2021:

- Entered the workforce: 36
- Return to sponsoring company / organization: 18
- Post-Doctoral Fellow: 24
- Entrepreneur: 2
- Other: 8



Panasonic
ideas for life

MARUHA NICHIRO

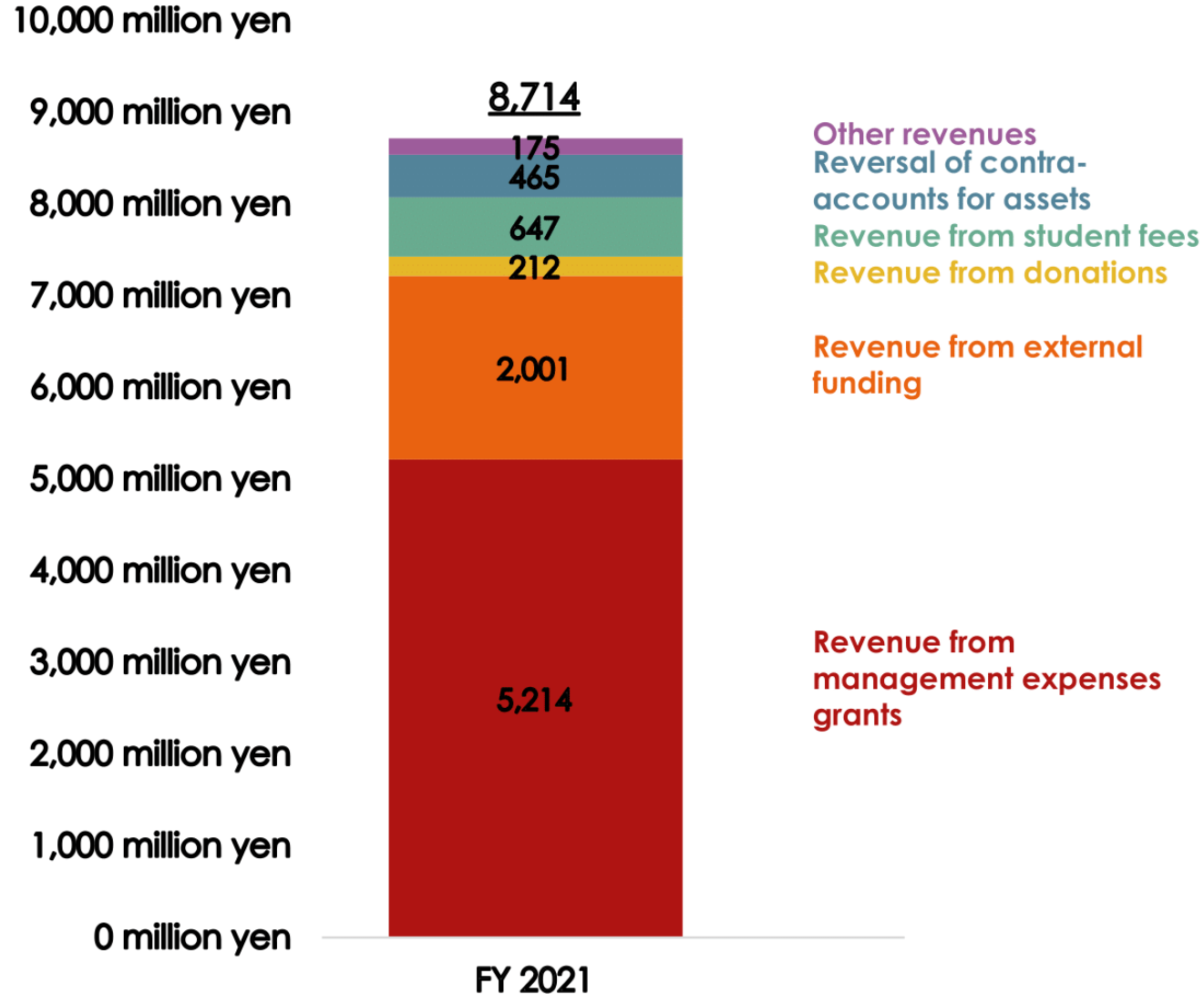


YAHOO!
JAPAN

SONY



Summary of revenue



High Allocation of
Educational Research Funding

Search NAPI 2027



<https://napi-naist.github.io>

What NAIST offers?

- ✓ Focused graduate school environment
- ✓ Top quality education and research
- ✓ State of the art research facilities
- ✓ Extensive support for students/researchers
- ✓ Expanding network for global collaboration
- ✓ Growing global campus community



- ✓ Internship period: January 12 – 29, 2027
- ✓ Full Financial support: Flight, Accommodation, etc.
- ✓ Accept 10 interns from ADMU and DLSU

Applied Artificial Intelligence and Robotics

Human-AI Interaction

- Multimodal Interaction AI
- Exploring Empathic Interactions Between Humans and Robots

Interactive Media Design

- Visualizing Tongue Motion for Pronunciation Learning
- VR Memory Palace for Vocabulary Learning

Human Robotics

- Shared Control of Remotely Operated Underwater Robot
- Physical Human-Robot Collaboration

Robot Learning

- Reinforcement Learning for Quadruped Robot Locomotion through Sim-to-Real Transfer

Biomedical Imaging Intelligence

- Automatic Tracking and Kinematic Quantification of Swallowing-Related Structures from 4D CT Imaging

Computational Behavioral Neuroscience

- Brain MRI Image Analysis: Visualization of Disease Features Using Patients Data

Computer Science and Artificial Intelligence

Ubiquitous Computing Systems

- Collaborative Edge Language Models for Context Recognition and Actuation in Smart Homes

Large-Scale Systems Management

- Privacy-preserving Smart Contract Development with ZoKrates
- Web3-Based Physical Access Control through Raspberry Pi and Smart Contract

Software Design and Analysis

- Maintenance and Security of Software Ecosystems
- Test and Secure Vision-Language Models in the Wild

Information Security Engineering

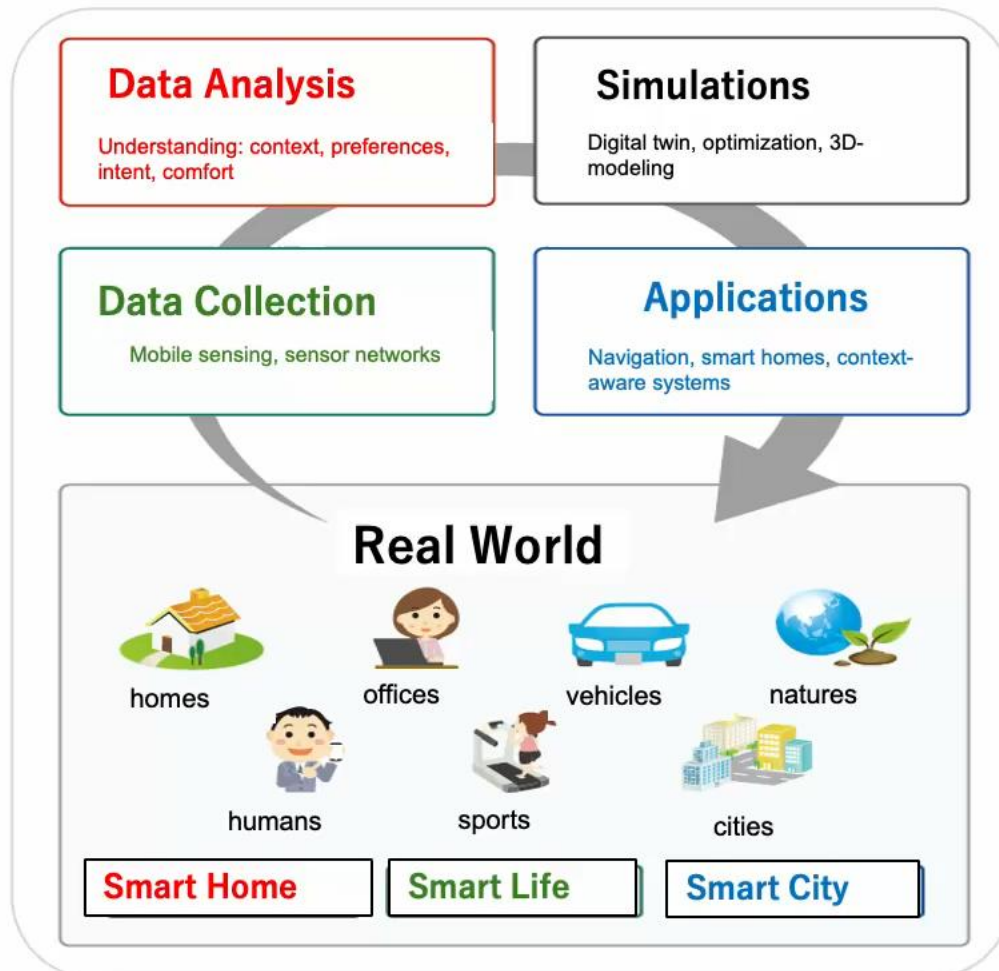
- Side-channel Analysis on Cryptographic Module

Internet Architecture and Systems

- Learning From Streaming Network Data using Graph Neural Networks



Goal: Realizing a **Society 5.0** through **AIoT** and **Digital Twins**



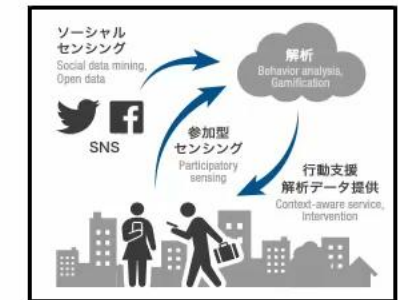
Application Areas



Smart Life



Smart Home



Smart City

4 Faculty Members + 37 Students



Professor
Keiichi Yasumoto



Assoc. Prof.
Hirohiko Suwa



Assist. Prof.
Tomokazu Matsui



Assist. Prof.
Wataru Sasaki



**NARA INSTITUTE OF
SCIENCE AND TECHNOLOGY**
- Outgrow your limits -

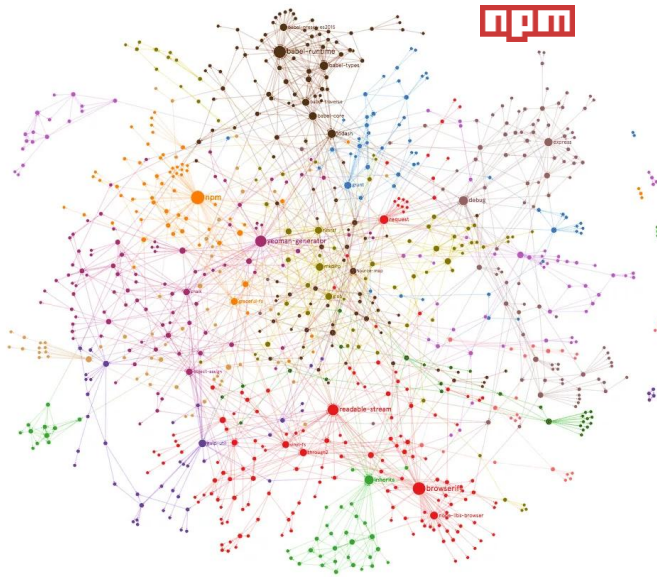
NAPI Internship 2027 Blockchain-related Internship Teaser

Large-scale Systems Management Laboratory

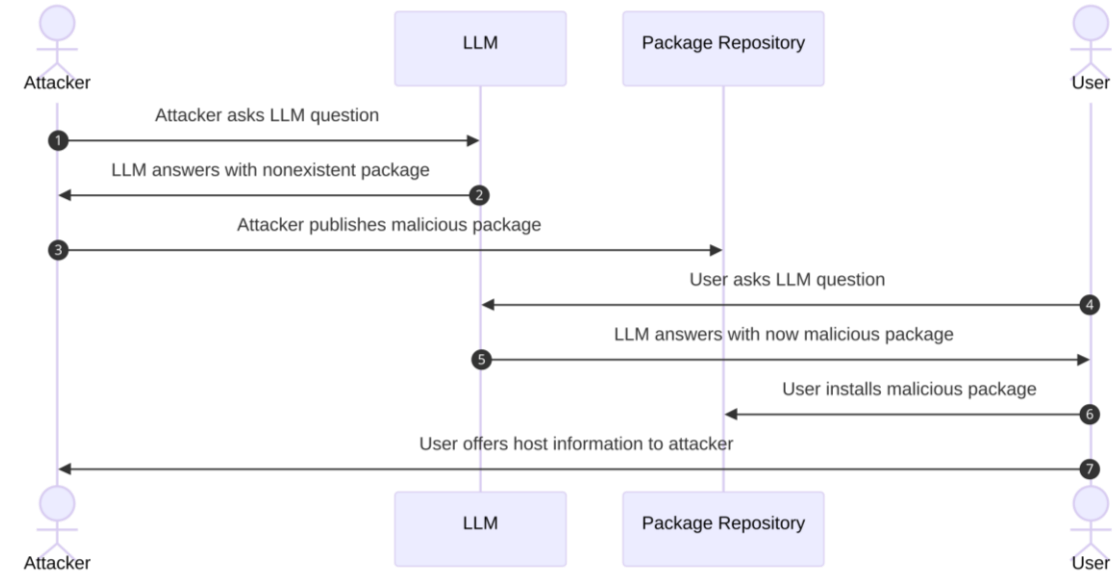
Nara Institute of Science and Technology



Software Design and Analysis Lab **SD**



Top 100 depended upon npm packages and their dependencies

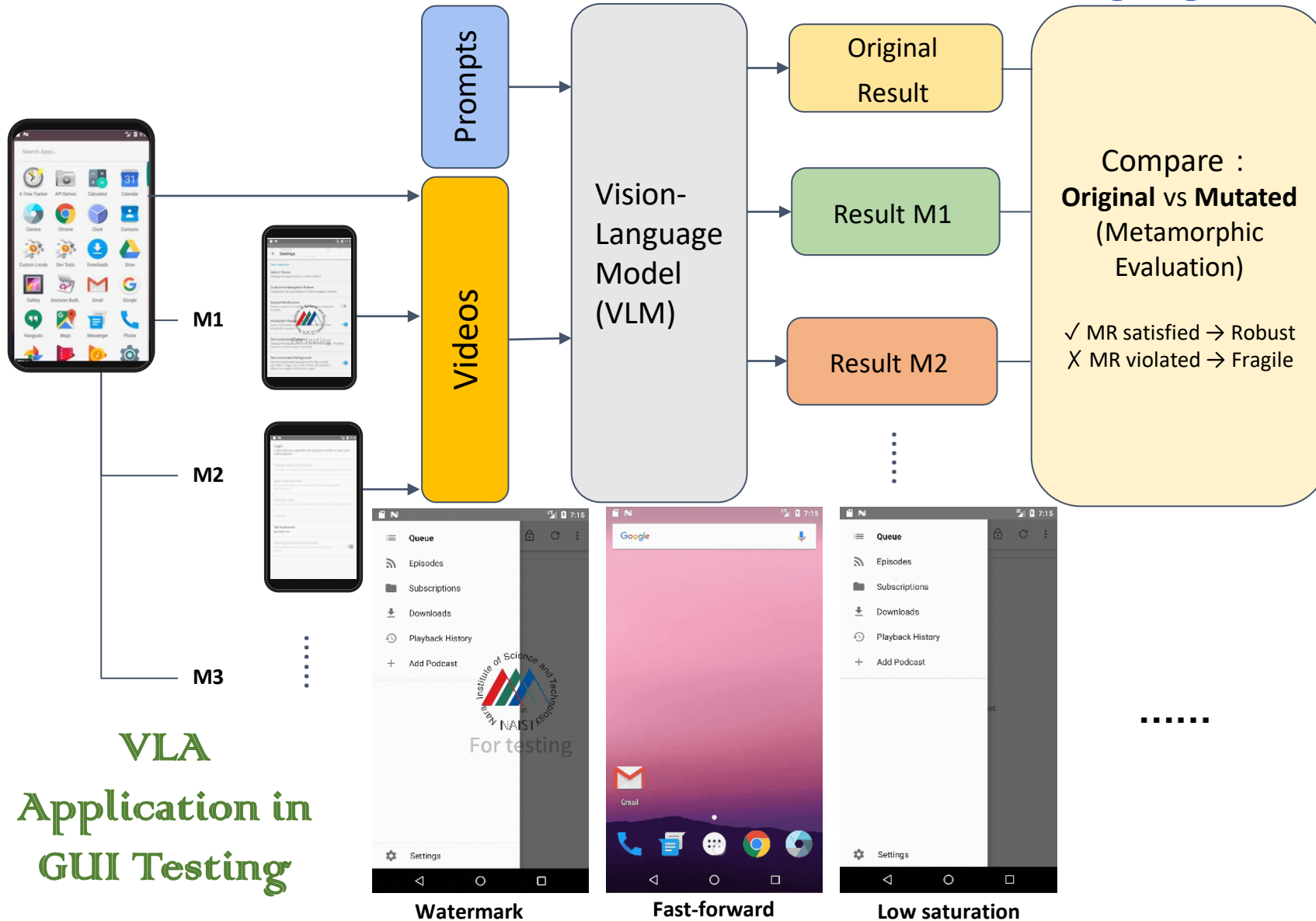


Example of 'slopsquatting attack' using hallucinated library names (wikipedia).

- Software Ecosystems** -> **Software libraries** can become **outdated** or introduce **vulnerabilities**. **How can we better maintain and secure the supply chain?**
- AI Agents** -> **Agentic coding tools** can autonomously create software with minimal human intervention. **How are developers using these tools, and what is the quality of the output? How do agents handle hallucinated library names?**
- AI Software Libraries** -> With AI tools **AI software libraires** can be generated autonomously. **What is the current impact of AI on the ecosystem, and how are AI generated libraries being used by developers?**

Software Design and Analysis Lab SD

Theme 2: Test and Secure Vision-Language Models in the Wild



In the Future:

Various scenarios:

- Software with GUI testing
- Radiology report generation
- Robots
-

Various perspectives:

- Analysis
- Test
- Attack & Defense
-

Various tech:

- Differential testing
- Jailbreak
- Runtime verification
- Causality
-

Side-channel analysis on cryptographic module

► Information Security Engineering Lab.

We conduct research on methods to ensure hardware safety, which is the bedrock of system information security. We also conduct research to ensure the security of the entire system, including the upper layers.

Research key words:

Side-Channel Analysis, Fault Analysis, EM Information Leakage (TEMPEST), Hardware Trojan, Sensor Security for IoT, etc.

► Faculty



Yuichi Hayashi
(Professor)



Daisuke Fujimoto
(Associate Professor)



Shugo Kaji
(Assistant Professor)



Young Woo Kim
(Affiliate Assistant Professor)



Masahiro Kinugawa
(Guest Researcher)

Learning From Streaming Network Data using Graph Neural Networks

Ass. Prof. Araya Kibrom Desta

Nara Institute of Science and Technology (NAIST), Nara, Japan

Internet Architecture and Systems laboratory (Inet-Lab)



Prof. Kazutoshi Fujikawa



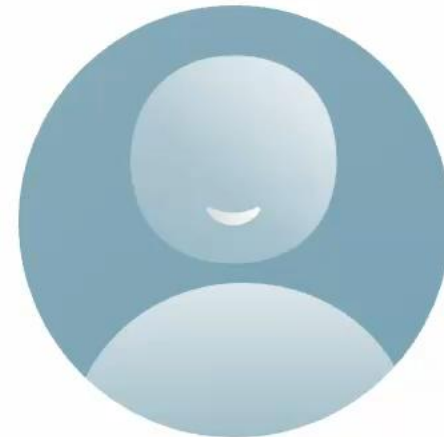
Prof. Arai Ismail



Ass. Prof. Arata Endo



Ass. Prof. Araya Kibrom Desta





Human-AI Interaction Lab

<https://hai-lab.naist.jp/>

Toward a future where
humans and AI evolve together
AI × **Human** × **Society**



SpeechAI Group

Connect **voices**. Shape the future.

We understand voices, synthesize them,
and capture emotions and nuances.

Pioneering the future of multimodal voice AI.



LangAI Group

Understand **language**. Connect the **world**.

We enable seamless communication between
people and spaces through language.
Smarter connections for a better society.



InteractAI Group

People and robots, living **naturally** together.

We build interactive AI that understands conversation,
behavior, and emotions—creating new relationships
between people and robots.

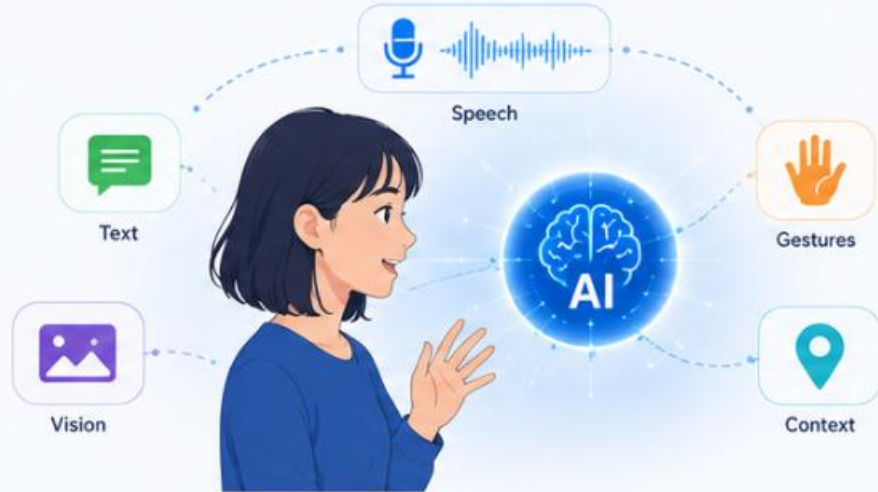


Internship Research Opportunities

INTERNSHIP TOPIC 1

Multimodal Interaction AI

Build AI that understands and interacts through multiple modalities.



Understand

Capture and understand information from multiple modalities.



Integrate

Combine modalities to grasp context and intent holistically.



Respond

Generate natural and helpful responses across modalities.



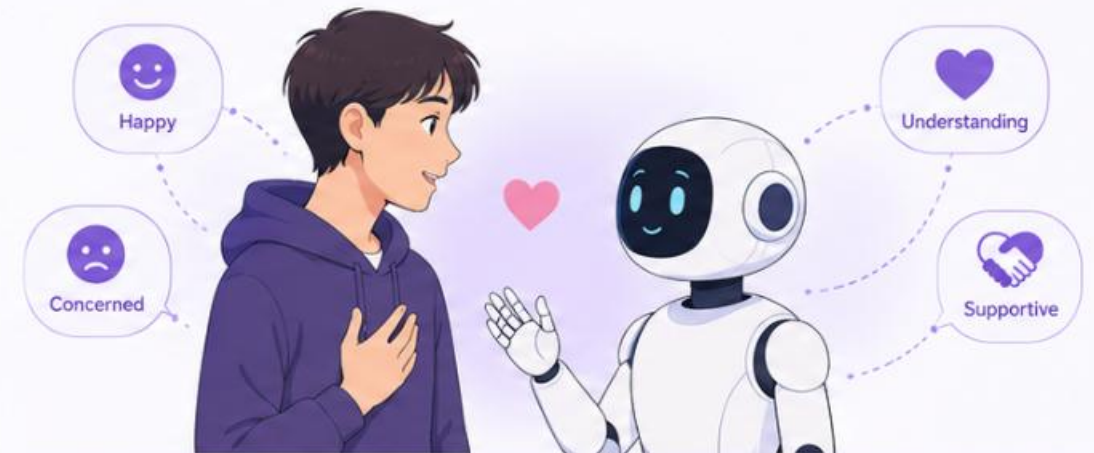
Connect

Enable seamless interactions between people and systems.

INTERNSHIP TOPIC 2

Exploring Empathic Interactions Between Humans and Robots

Explore how robots can understand, respond to, and support human emotions.



Perceive

Detect and understand human emotions and social cues.



Empathize

Interpret emotions and build empathetic understanding.



Respond

Provide empathetic and context-aware responses.



Build Trust

Foster positive relationships and create meaningful human-robot interactions.

Visualizing Tongue Motion for Pronunciation Learning



Isidro Butaslac
Asst. Prof.



Background

- **Challenges in Learning L2 Pronunciation**

- **Learners are influenced by the phonological system of their native language.**
- **This can make it difficult to perceive unfamiliar sounds in a second language.**
- **For example, Japanese speakers often have difficulty distinguishing English /l/ and /r/.**

→ Acquiring accurate pronunciation in a second language is challenging.

Background

- **Why Visualize Articulation?**

- **Articulatory movements, especially tongue movements, are difficult to observe directly.**
- **This makes it difficult for learners to understand how to move their articulators to produce target sounds.**
- **Visual articulatory feedback can help learners understand how sounds are physically produced.**

→ Visual feedback may support pronunciation learning and articulatory understanding.

Objective

Real-time tongue visualization for pronunciation learning

Method

5 English speakers trained with Opti-Speech (3D EMA)

Result

Accuracy: **12.6% → 74.9% → 85.3%**

Gap

Requires placing a sensor on the tongue



Objective

Visualize articulation on the speaker's face

Method

Illustrations / vocal-tract model / real-time ultrasound

Result

Real-time ultrasound projection → most effective

Gap

Requires ultrasound equipment



Research Gap:

Existing approaches often require:

Dedicated sensing devices

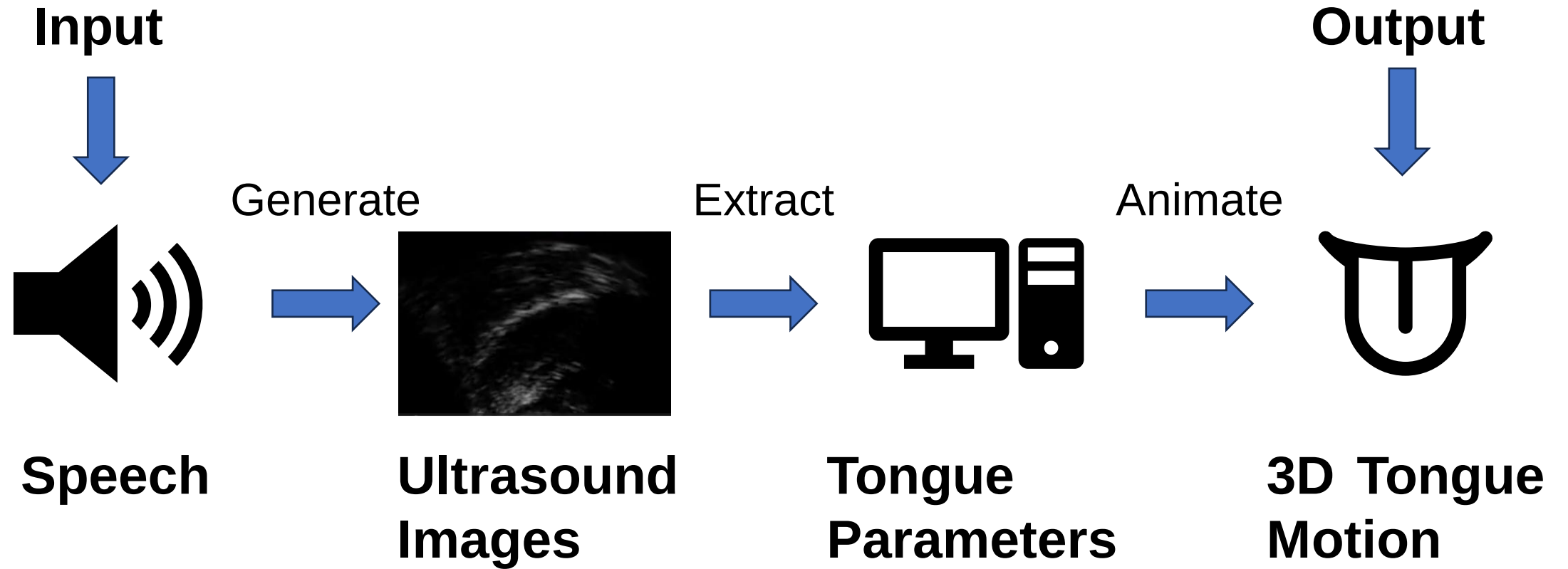
or

Pre-recorded / pre-created articulatory data



Can we visualize tongue motion from speech alone?

Visualizing Tongue Motion for Pronunciation Learning



Understanding motor intelligence of humans and machines and applying it to control theory & human-robot interactions

【Robotics】 Manipulation, Field robotics, Soft-robotics, nonlinear control theory

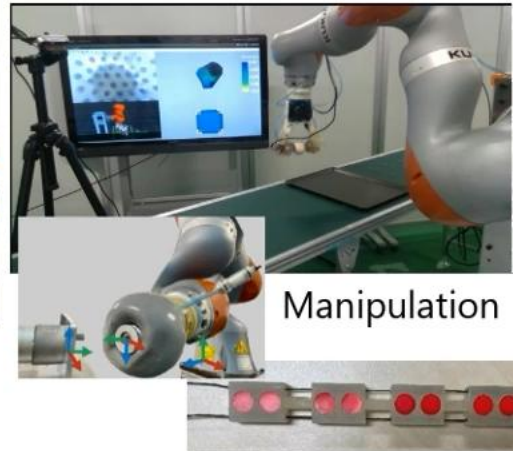
【Human modeling】 Modeling human motor control, motion perception, and motion sickness

【Human machine systems】 Human-robot interaction, teleoperated robots, VR/AR applications

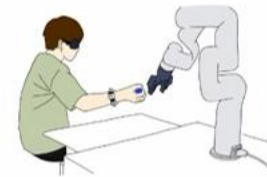
【Mobility vehicles】 Automated vehicles, ride comfort control, driver assistance systems



Underwater robots



Manipulation



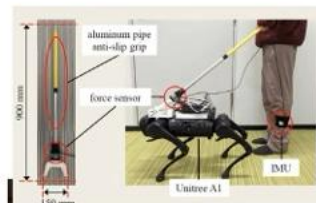
robots



Driving simulators



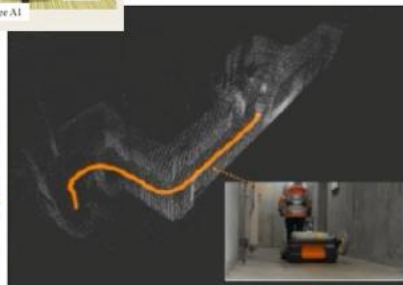
Comfort in AVs
(ride comfort/ Trust)



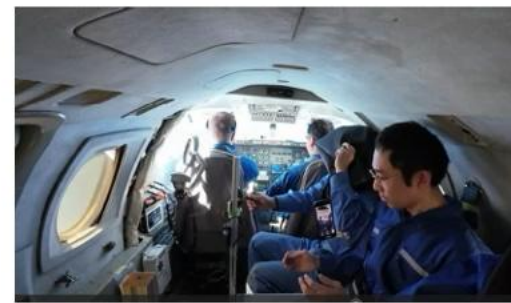
Soft robotics: (hardware, modeling,
and control theory)



Rescue robots



Micro-gravity experiment (space sickness)



Prosthesis

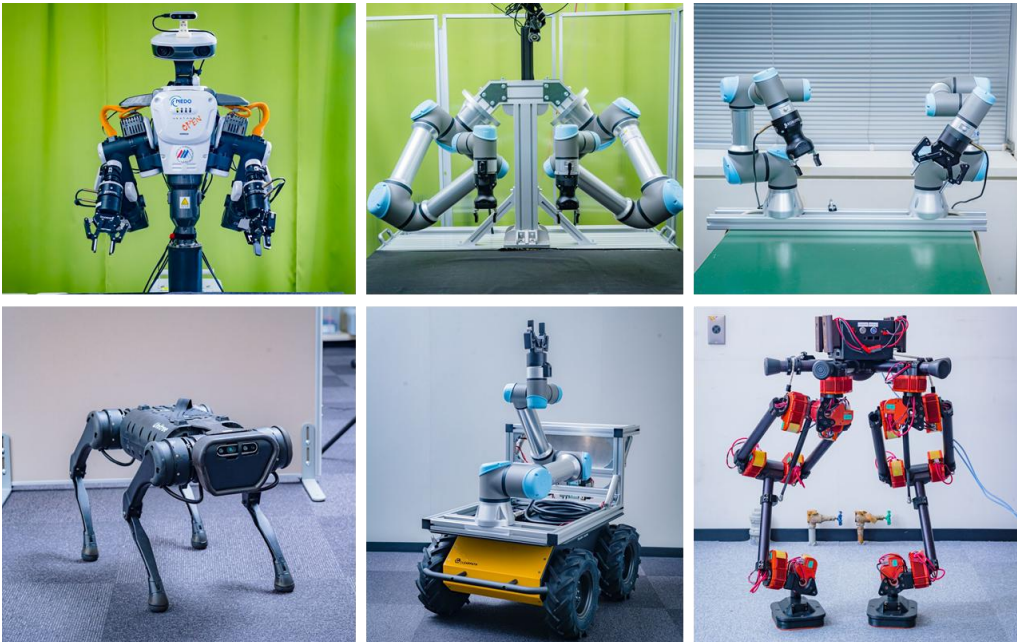
PoC experiment
with AVs



We study **robot learning**, the intersection of machine learning and robotics and **its real-world applications**.

Our Mission

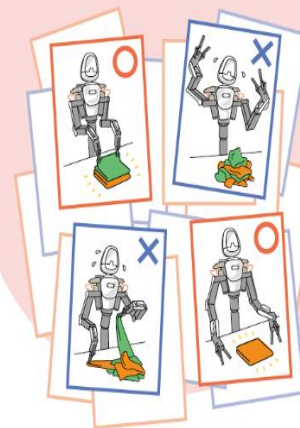
Automating Modern Society's Manual Labor via **Robot Learning**



Main Research Topics

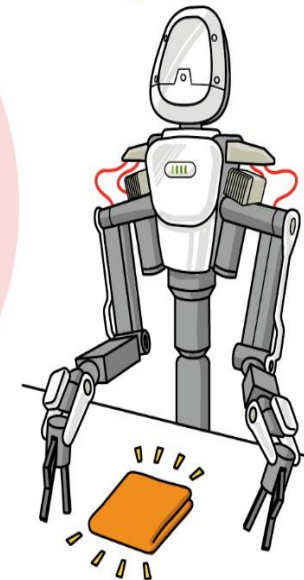
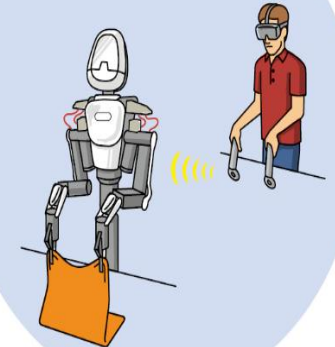
Reinforcement Learning

Reinforcement Learning
強化学習

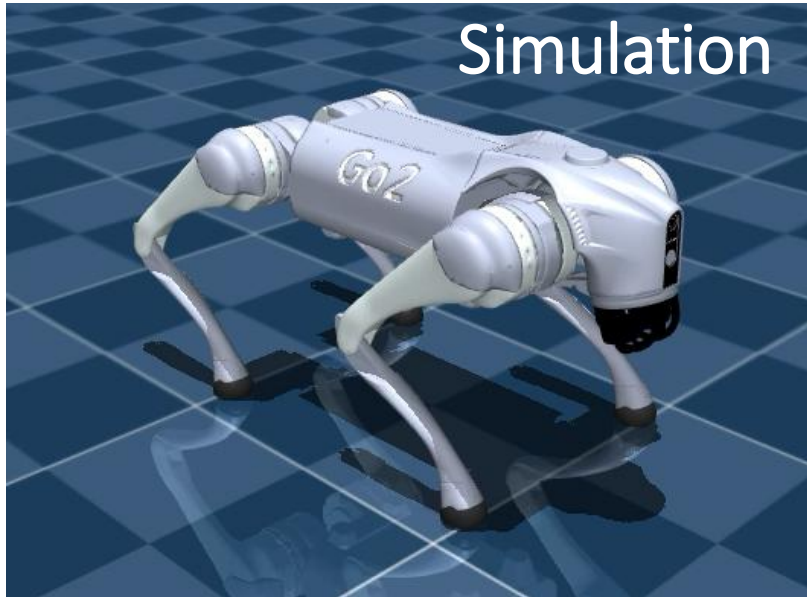


Imitation Learning

Imitation Learning
模倣学習



Training a quadruped robot using simulation and reinforcement learning



What you will learn

- Build robot simulation for a quadruped robot
- Train a policy using reinforcement learning
- Experimental validation using a real robot

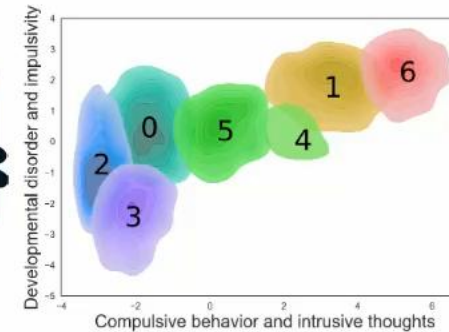
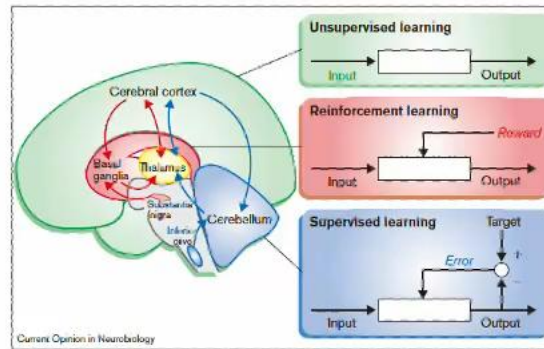
Requirement

Basic knowledge of Python



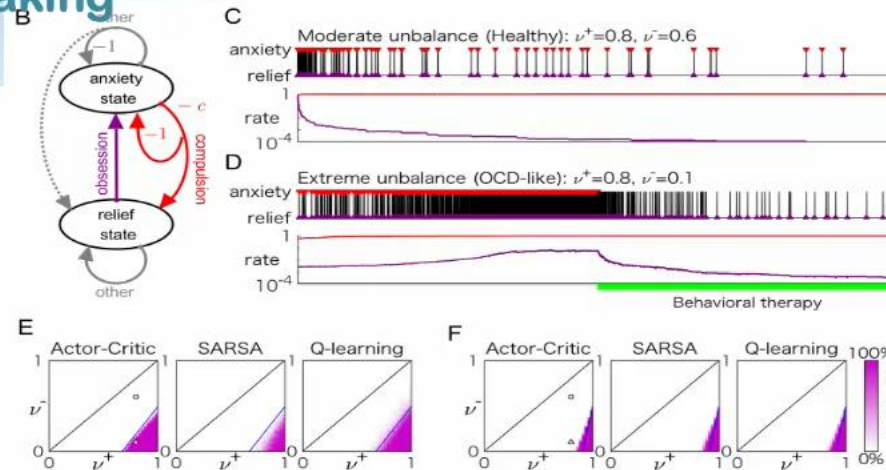
Exploring the principles of human behavior based on the information-processing mechanisms of the brain

Computational
Neuroscience

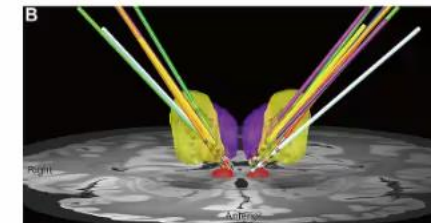
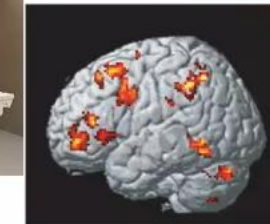


Neuro-behavioral database/
Machine learning

Reinforcement learning
model for human
decision making



Neuroimaging



Understanding
mechanisms of
psychiatric disorders

Application Procedure

Follow the steps below to formally apply to the NAPI program

1. Check if you are **eligible** to apply
2. Attend the NAPI Information Session (optional, otherwise see [Info Session slides here.](#))
 - ADMU on **September 3, 2026; 2pm @ CTC 413**
 - DLSU on **September 4, 2026; 2pm @ A1505**

3. Decide on a first and second choice **laboratory**

Note: Due to the high number of applications, you may not be assigned to your preferred lab.

4. Prepare the following documents:

- Scanned copy of passport (data page)
- Scanned copy of Certificate of Enrollment (not tuition receipt) or Graduation
- Scanned copy of Official Transcript of Records of at least the last fiscal year

Note: [ADMU request](#), [DLSU request](#)

5. Ask permission from your Thesis Adviser, Department Chair, Program Director, or other faculty member to complete the Recommendation Form for your NAPI application

Note: The Recommendation Form will be automatically sent to your recommender's email after you submit the Application Form below

6. Submit the [Application Form](#) by **October 16, 2026**

7. Remind your recommender to complete the Recommendation Form by **October 23, 2026**

NAPI 2018



HOHOL



NAPI 2024 VLOG @rayahnogomibako



What is NAPI?

The NAIST Project for Interns (NAPI) offers yearly internship opportunities for students coming mostly from the School of Science and Engineering (SOSE) of the Ateneo de Manila University (ADMU). Starting with NAPI 2027, the program will also accept students from De La Salle University (DLSU), further expanding its partnership with Philippine universities.

Important Dates

- Call for Applications: **September 1, 2026**
- NAPI Information Session at ADMU: **September 3, 2026; 2pm @ CTC 413**
- NAPI Information Session at DLSU: **September 4, 2026; 2pm @ A1505**
- Application Deadline: **October 16, 2026**
- Recommendation Submission Deadline: **October 23, 2026**

NAIST Project for Interns (NAPI) 2027

8916-5 Takayamacho Ikoma Nara 630-0192 Japan

napi@is.naist.jp



<https://napi-naist.github.io>

Additional info



NAIST Online Exam Application

49

[Home](#)[Admission Information and Application Guide](#)[Advance Preparation](#)[Payment Methods](#)[Contact us](#)[Privacy policy](#)



NAIST ONLINE APPLICATION

オンライン出願登録サイト

 国立大学法人
奈良先端科学技術大学院大学
NARA INSTITUTE of SCIENCE and TECHNOLOGY

Entrance Examination Schedule

For the applicants having visited this website for the first time, please start with My page Registration

My Page registration

For whom have already completed My Page registration, please login from here

 Log in



チャットで質問
Chat with us



Exam : Transcript 50 + English 30 + Math 30 + Interview 90

1. English: Pre-submission



TOEIC (July 2024 Exam) Highest 985 Central 755 Average 749 Lowest 425

2. Mathematics : Interview

- **1 question from linear algebra**

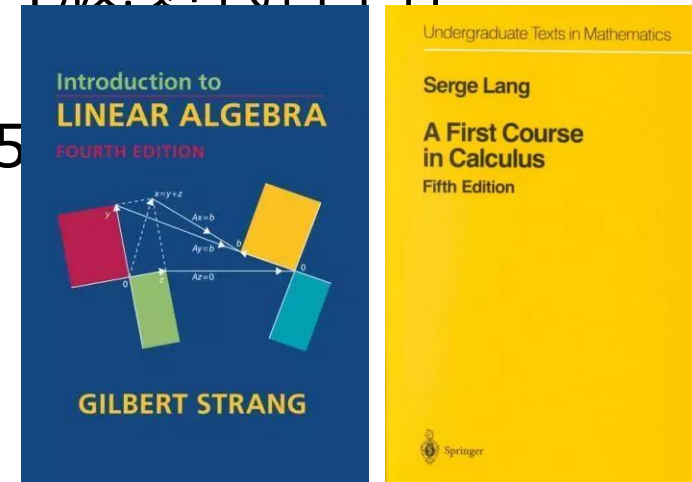
G. Strang, Introduction to Linear Algebra, Wellesley-Cambridge Press, 4th Ed. Chaps 1-7.

日本語訳 : G. ストラング, 線形代数イントロダクション, 原書第4版, 近代科学社

- **1 question from analysis**

S. Lang, A First Course in Calculus, Springer, 5th Ed. Chaps 1-15

日本語訳: S. ラング, 解析入門, 原書第3版, 岩波書店



3. Based on the submitted research proposal, Oral presentation + Q&A



Research Proposal

2 pages of A4 paper

- ◆ Research progress by now (graduation dissertation etc.)
- ◆ Research field/project that I want to work on

Based on the proposal,
Oral presentation + Q&A

Background, challenges, solutions, and Expected outcomes

See “Admission Q&A” in NAIST IS HP for more details

Applicant ID :

Name :

Preffered Lab. : ○○○ Lab.

Research Theme : 「 * * * * 」

1. Research Progress by
now

○○○○○
○○○○○

2. Research project/field
I want to work on
Background

○○○○○

Challenges

○○○○○
○○○○○
○○○○○

Conclusions

○○○○○
○○○○○
○○○○○
○○○○○

Expected outcomes

○○○○○

References

**Color Figure & Table
acceptable**



Math: Interview (online interview)

Answers while showing the calculation process
to the interviewers





Research equipment

XR mobility platform

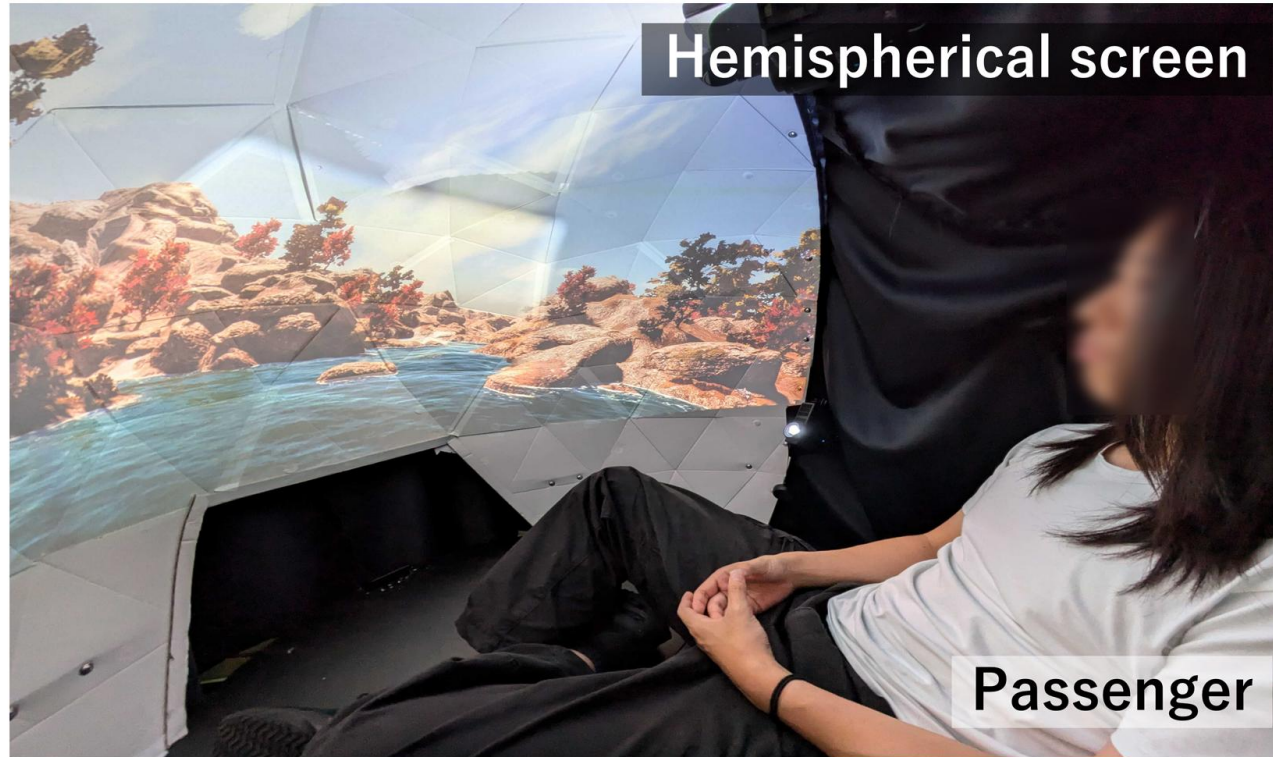


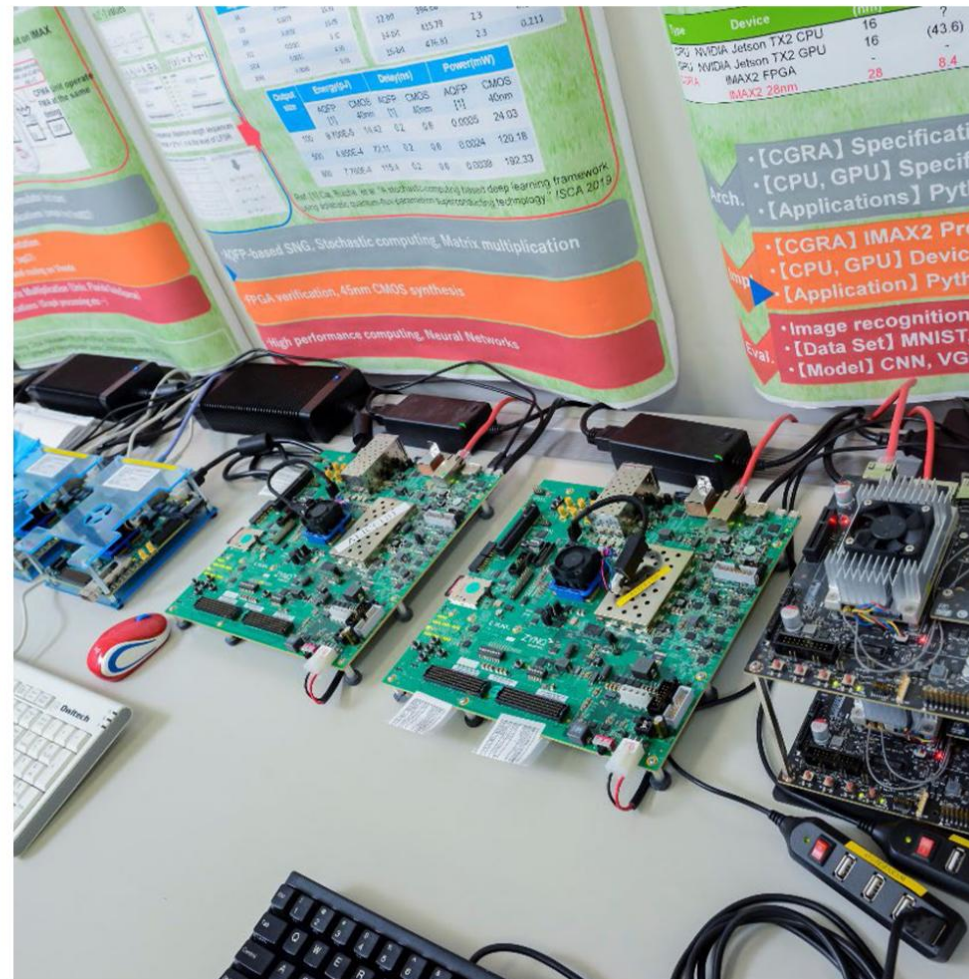
Figure 1: A passenger engaging in mindfulness meditation using the ZenRide system within an autonomous vehicle.

(Interactive Media Design)



Research equipment

Japanese Style Meeting Room, and IoT/server accelerated by FPGA





Research equipment

Cloud Computing Experimental System

A private cloud system for cloud computing experiments and software data analysis. It integrates ultra-high-speed, high-reliability network storage with 47TiB of RAID6 HDDs and 2TiB of NVMe for cache, and servers with a total of 128 CPU cores and 576GiB of memory, using a virtualization platform vSphere.

(Software Design and Analysis)





Research equipment

56

Smart Home Facility





Research equipment

Mobile Robots (Kilobot and Khepera IV)

With 150 Kilobots and 18 Khepera IVs, we are developing distributed algorithms to cooperatively operate a swarm of robots. Kilobot is a very small (3.3cm) robot that can communicate with nearby Kilobots and move autonomously. Khepera IV is also a small (14cm) robot that can communicate and move. In addition, Khepera IV has many types of sensors (a color camera, infrared sensors, ultrasonic sensors, a microphone, an accelerometer, a gyroscope).



(Dependable System)





Visits to the preferred laboratory are strongly recommended

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