



## Message from the Dean

At Ritsumeikan University, computer science education and research became popular in the 1980s when the Department of Computer Science was established in the College of Science and Engineering. This department was further developed under the Graduate School of Science and Engineering. In response to society's need to train researchers and engineers in the field of information and communication who can actively participate in the international arena, the Graduate School of Information Science and Engineering (GSISE), specializing in computer science, was established in April 2012. As one of the leading graduate schools in the field of IT in Japan, GSISE currently has over 90 researchers engaged in advanced and diverse research and education in the field of IT.

About 100 students from various countries and regions are studying at GSISE. There are many professors from around the world to help international students adjust to life in Japan. GSISE continues to create an environment in which Japanese and international students (in both English and Japanese language courses) work together across cultural differences and diverse values to produce a global workforce that can play a leading role in society.

By cooperating closely with industry, government and the local community, GSISE has made significant research developments in unique areas such as Mixed Reality Technology, which combines the real and virtual world; the Digital Humanities for Japanese Arts and Cultures project, which digitally archives Japanese culture like the Gion festival and Noh dance; the Frontier Research for Natural Disaster Mitigation project which involves collaboration among researchers in civil engineering, sensing technology, and information and communication technology; a project to improve the sound-scape of daily life through the application of acoustic technology; and artificial intelligence for knowledge acquisition and image recognition.

Our researchers and students have published their achievements in both national and international journals and conferences, and we are proud that many have received international recognition throughout our history.

Dean Graduate School of  
Information Science and Engineering  
Ritsumeikan University

TAKADA Hideyuki





### Master's Program (English-medium)

#### Major in Advanced Information Science and Engineering

The Master's Program aims at fostering researchers and specialists who are ready to tackle and solve issues pertaining to today's information society at the local and global levels. Students will gain competencies in analyzing and solving problems, communicative proficiency in Japanese and in English, understanding of developments in theories and cutting-edge technologies in information processing, network construction and system architecture, media technology, technologies applied to human life and intelligence, and ethics in science and technology.

### Doctoral Program (English-medium)

#### Major in Advanced Information Science and Engineering

The Doctoral Program fosters researchers and specialists who can function at the forefront of various domains in order to solve, with creative and innovative approaches, important and critical issues of society. Acquired in the program are understanding of theoretical and technological advances in information technology, knowledge and attitudes in research ethics, creativity in identifying, analyzing, and solve problems, and skills in pursuing research activities and those in effective communication.

## Completion Regulation

### Master's Program

Subject Field	Common Subjects	Special Major Subjects	Special Research Subjects	Optional Subjects	Total
Required Credits	4 credits or more	10 credits or more	16 credits	—	30 credits or more

### Doctoral Program

Subject Field	Special Research Subjects	Seminar and Field Works Subjects	Optional Subjects	Total
Required Credits	8 credits or more	—	—	8 credits or more

## Curriculum \*The medium of instruction is Japanese

### Master's Program

- Advanced Technology Management
- Advanced Topics in Communication Science
- Advanced Topics in Computational Intelligence in Games
- Advanced Topics in Computer Science
- Advanced Topics in Global Software Engineering
- Advanced Topics in Human Factors for System Engineering
- Advanced Topics in Image Processing
- Advanced Topics in Knowledge-based Systems
- Applied Technical Japanese 1~2
- e-Society
- Field Work
- Presentation in Science and Engineering
- Research for Master in Information Science and Engineering 1~4
- Special Topics
- Special Topics (Common Subjects)
- Study Abroad
- Technical Japanese 1~2
- ICT産業論 (\*)
- Webインテリジェン特論 (\*)
- データサイエンス特論 (\*)
- 機械学習特論 (\*)
- 言語メディア特論 (\*)

### Doctoral Program

- Research for Doctor in Information Science and Engineering 1~6
- Engineering Practicum Internship 2
- Engineering Practicum Internship 1
- Research Presentation in English





## Appeals of GSISE

### State-of-the-art Research Environment

Graduate School of Information Science and Engineering conduct significant research activities by funds from grants-in-aid for scientific research, joint research with private companies and other governmental funds. Therefore, we provide students the state-of-the-art facilities and equipment and education based on the latest research activities.

### Professors Covering Various Fields

There are over 100 professors in our graduate school and our graduate school is one of the biggest graduate schools in IT field in Japan. Our professors cover a lot of research fields and have various research themes. Students can study under all of our professors in English. Our professors are also active in their research activities and obtain budgets from Japanese government for their unique research which its results boast to the world. That makes students study based on the latest research achievements.

### International Students from all over the world

Graduate School of Information Science and Engineering accepts many international students from all over the world. Currently, we have over 150 regular students in our graduate school. Every year, we also accept approximately 100 short-term students from many different countries. Our graduate school provides academic excellence scholarship for those who passed the entrance examination with outstanding results. Successful recipients receive 450,000 yen or 100,000 yen tuition reduction a year with the scholarship. Ritsumeikan University Tuition Reduction Scholarship for International Students is also provided to self-financed international students. Selected students can receive 100% tuition reduction for their minimum standard duration of degree program or 20% tuition reduction for one year excluding admission fee and membership fee.

## Location

Graduate School of Information Science and Engineering is located at the Osaka Ibaraki Campus (OIC) in Osaka, Japan. In order to uphold one of our core academic concepts, "Community and Regional Collaboration", OIC is promoting a variety of activities (education, research, student activities and campus planning) in collaboration with regional and municipal partners. Through these activities, we aim to contribute to regional and social development by establishing relationships of mutual trust, resolving regional and social issues and creating new values.

### ● Grants-in-Aid for Scientific Research (KAKENHI)2023

Accepted Amount

**1.49billion** (4th place at private university)

Accepted projects

**664** (5th place at private university)

The number of accepted projects in Grants-in-Aid for Scientific Research

-Middle-sized section  
'Human informatics and related fields'

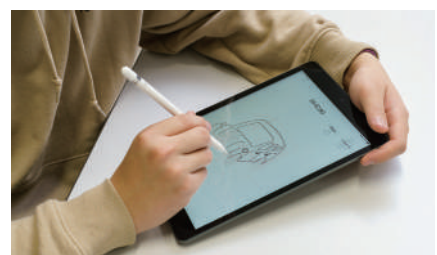
**1st place**  
(at private university)

**9th place**  
(at all universities in Japan)

-Middle-sized section  
"Applied informatics and related fields"

**1st place**  
(at private university)

**10th place**  
(at all universities in Japan)





# Researchers [2024]

## Information Science and Engineering Course



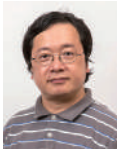
**AKIYAMA Soramichi**  
Associate Professor  
Advanced Systems Laboratory  
Memory Systems,  
Approximate Computing,  
Virtual Machine, Operating Systems,  
Memory Security



**IZUMI Tomoko**  
Professor  
Cognitive Engineering Laboratory  
Cognitive Engineering,  
Human Computer Interaction,  
Memories Engineering,  
Kansei Engineering



**Uwe SERDÜLT**  
Professor  
Digital Governance Systems Laboratory  
Digital Governance Systems,  
Digital Democracy,  
E-Government Applications,  
E-Participation



**UEHARA Tetsutaro**  
Professor  
Cyber Security Laboratory  
System Security,  
System Administration,  
Digital Forensics



**OCHI Hiroyuki**  
Professor  
Integrated Systems Laboratory  
FPGA and Reconfigurable Architecture,  
Ultra-low Power System,  
Algorithms and Data Structures  
for VLSI Design Automation



**KAMIYAMA Noriaki**  
Professor  
Advanced Network Laboratory  
Network Cache, Network Security,  
Quantum Network



**KITAMURA Yoshinobu**  
Professor  
Knowledge Computing Laboratory  
Knowledge Engineering,  
Knowledge Sharing, Ontology,  
Artificial Intelligence



**KUWABARA Kazuhiro**  
Professor  
Semantic Communication Laboratory  
Knowledge Processing,  
Communication Support



**SHIMAKAWA Hiromitsu**  
Professor  
Data Engineering Laboratory  
Data Engineering, Data Science,  
Usability Engineering,  
Education Engineering



**TAKADA Hideyuki**  
Professor  
Distributed and Collaborative  
Systems Laboratory  
Collaborative Learning,  
Computer Supported Cooperative Work,  
Distributed Computing, Databases



**NISHIO Nobuhiko**  
Professor  
Ubiquitous Computing and  
Networking Laboratory  
IoT, Smart Computing Environment,  
Embedded Systems,  
Autonomous Driving System,  
Location Information System



**NISHIHARA Yoko**  
Professor  
Communication and Interaction  
Design Laboratory  
Human Computer Interaction,  
Natural Language Processing,  
Information Visualization,  
Comic Computing



**NISHIMURA Toshikazu**  
Associate Professor  
Global Information  
Networks Laboratory  
Computer-mediated Communication,  
Internetworking



**NOGUCHI Taku**  
Professor  
Network Systems Laboratory  
Ad Hoc Networks, IoT,  
Wireless Sensor Networks,  
Connected Car



**NOJIMA Ryo**  
Professor  
Applied Cryptography Laboratory  
Cryptography,  
Post Quantum Cryptography,  
Machine Learning,  
Secure Computation



**HATTORI Hiromitsu**  
Professor  
Collaboration Design Laboratory  
Multi-Agent Simulation,  
Social System Design,  
Artificial Intelligence,  
Discussion/Dialogue Support



**Victor KRYSSANOV**  
Professor  
e-Society Laboratory  
"ICT for Human Enhancement"  
Data Science, IoT, e-Society,  
Statistical Modeling and Simulation,  
Smart City and Smart Farming



**FUKUMOTO Junichi**  
Professor  
Natural Language Processing Laboratory  
Natural Language Processing, Information  
Extraction, Question Answering,  
Interaction



**MAEDA Akira**  
Professor  
Digital Library Laboratory  
Digital Libraries,  
Information Retrieval,  
Multilingual Information Processing,  
Digital Humanities



**MARUYAMA Katsuhisa**  
Professor  
Software Science and  
Technology Laboratory  
Software Engineering,  
Software Development Environments,  
Programming Language



**MURAO Kazuya**  
Professor  
Intelligent Interactive System Laboratory  
Wearable Computing,  
Ubiquitous Computing, Sensing,  
Activity Recognition,  
Biological Information



**MURAKAMI Yohei**  
Professor  
Social Intelligence Laboratory  
Services Computing,  
Design Studies,  
Artificial Intelligence



**MOURI Koichi**  
Professor  
System Software Laboratory  
Operating System,  
Virtualization Technology,  
Computer Security,  
Embedded System



**YAMASHITA Shigeru**  
Professor  
New Generation Computing Laboratory  
Next-Generation Computing,  
Quantum Computation,  
Quantum Circuit Design, Biochip



**YAMAMOTO Hiroshi**  
Professor  
Information Networking Laboratory  
IoT, Sensor Network, Blockchain,  
Machine Learning, Embedded System



**YOSHIDA Norihiro**  
Professor  
Automated Software  
Engineering Laboratory  
Software Engineering, IoT, Security

※Some of the professors may not be able to accept new students. For more details, please check the website of Graduate School of Information Science and Engineering.





## Information Science and Engineering Course



**Igor GONCHARENKO**  
Professor  
Advanced Computer Graphics and Digital Human Laboratory  
Digital Human Modeling, Human Movement Analysis, Scientific Visualization, Sensory Data Analysis



**Eric W. COOPER**  
Professor  
Affective Engineering and Computer Arts Laboratory  
Interactive Intelligent Systems, Kansei Engineering



**KASHIHARA Koji**  
Professor  
Biological Information Engineering Laboratory  
Human Medical Engineering, Brain Neuroscience



**KITANO Katsunori**  
Professor  
Computational Neuroscience Laboratory  
Computational Theory of the Brain, Neural Network



**KIMURA Asako**  
Professor  
Reality Media Laboratory  
Human Computer Interaction, Virtual Reality, Mixed Reality/Augmented Reality



**SHINODA Hiroyuki**  
Professor  
Human Vision & Color Science Laboratory  
Visual Information Processing, Color Science, Psychophysics



**SHIBATA Fumihisa**  
Professor  
Mobile Computing Laboratory  
Mobile Computing, Mixed Reality, Human Machine Interface



**SHIMADA Nobutaka**  
Professor  
Interaction Laboratory  
Robotic Interface, Computer Vision, Machine Learning, Human Computer Interaction



**Gang XU**  
Professor  
3D Vision Laboratory  
Image Processing, Robotics, Machine Learning



**TANAKA Kenichiro**  
Associate Professor  
Vision and Imaging Laboratory  
Computational Imaging, Computer Vision, Optical Sensing, Machine Learning



**TANAKA Satoshi**  
Professor  
Computer Graphics Laboratory 1  
Computer Graphics, Computer Visualization, 3D Measurement, Digital Humanities, Big Data Visualization



**Yen-Wei CHEN**  
Professor  
Intelligent Image Processing Laboratory  
Intelligent Image Processing, Medical Image Analysis, Computer Vision



**TSUBO Yasuhiro**  
Professor  
Neural Information Processing Systems Laboratory  
Computational Neuroscience, Neural Activity Measurement, Statistical Modeling, Complex Network



**Damon CHANDLER**  
Professor  
Visual Information Engineering Laboratory  
Visual Information Engineering, Computational Perception, Image and Video Quality Assessment



**TOHSATO Yukako**  
Professor  
Computational Biology Laboratory  
Computational Biology, Machine Learning, Bioimage Informatics, Time Series Analysis, Data-driven Science



**NAKATA Susumu**  
Professor  
Computer Graphics Laboratory 2  
Computer Graphics, Numerical Simulation



**NISHIURA Takanobu**  
Professor  
Acoustics & Signal Processing Laboratory  
Acoustic Signal Processing, Immersive audio, Pin-Spot Audio, Noise Cancelling



**NISHIKAWA Ikuko**  
Professor  
Computational Intelligence Laboratory  
Computational Intelligence, Machine Learning, Optimization



**NOMA Haruo**  
Professor  
Media Experience Design (MxD) Laboratory  
Virtual Reality, Haptic Interface, Human Interface, Social Design



**MATSUMURA Kohei**  
Associate Professor  
Playful Laboratory  
Human-Computer Interaction, Embodied Cognitive Science, Knowledge Medium



**MITSUGAMI Ikuhisa**  
Professor  
Computer Vision Laboratory  
Computer Vision, Human Interface, Image Processing, VR/AR, Human Behavior Analysis



**MITSUDA Takashi**  
Professor  
Biorobotics Laboratory  
Soft Robotics, Cognitive Psychology



**Mikhail SVININ**  
Professor  
Intelligent Robotic Systems Laboratory  
Robotics, Haptics, Machine Intelligence



**YAMASHITA Yoichi**  
Professor  
Spoken Language Laboratory  
Speech Recognition, Speech Synthesis, Acoustic Signal Processing



**Ruck THAWONMAS**  
Professor  
Intelligent Computer Entertainment Laboratory  
Game AI, Serious Games, Audience Participation Games



**Jooho LEE**  
Professor  
Advanced Intelligent System Laboratory  
Intelligent Robots, Intelligent Space, Machine Learning, Human Interface



**Liang LI**  
Professor  
Computer Graphics Laboratory 1  
Image Processing, Virtual Reality, Computer Graphics, Visualization





## Application Information

April Enrollment Admissions	September Enrollment Admissions
<p><b>Self-financed Admissions</b></p> <ul style="list-style-type: none"> <li>● Regular Admissions</li> <li>● International Student Admissions</li> <li>● In-University Advancement Admissions</li> <li>● Accelerated Learners (Grade Skippers) Admissions</li> </ul>	<p><b>Self-financed Admissions</b></p> <ul style="list-style-type: none"> <li>● Regular Admissions</li> <li>● International Student Admissions</li> <li>● In-University Advancement Admissions</li> </ul> <p><b>Scholarship-based Admission</b></p> <p>MEXT (Monbukagakusho) Scholarship</p>

Admission Information for Graduate School of Information Science and Engineering Website:



Ritsumeikan University Graduate School Entrance Examination Information Website:



## Tuition and Fees (Academic Year 2024 Enrollment)

Spring semester: April 1 – September 25,  
Fall semester: September 26 – March 31

		Admission Fee	Tuition for Spring Semester	Tuition for Fall Semester	Annual Sum
Master's	All other university graduates	200,000 JPY	597,400 JPY	597,400 JPY	1,394,800 JPY
	Ritsumeikan Graduates	—	597,400 JPY	597,400 JPY	1,194,800 JPY
Doctoral	All other university graduates	200,000 JPY	250,000 JPY	250,000 JPY	700,000 JPY
	Ritsumeikan Graduates	—	250,000 JPY	250,000 JPY	500,000 JPY

\*The admission fee is required in the year of admission only.

\*Tuition fee may be revised when social factors, such as rapid inflation, have a significant impact on the University.

## Scholarships for Graduate Students

Scholarship and Awarding Time	Eligible Students	Duration and Reduction Amount
SEISEKI-YUSHUSHA (Academic Excellence) Scholarship (For 1st Year of Enrollment) *At the time of enrollment	Master's students Students who passed the entrance examination with outstanding results	One year I: 450,000 JPY (Approximately 25% of admitted students) II: 100,000 JPY (Approximately 20% of admitted students)
SEISEKI-YUSHUSHA (Academic Excellence) Scholarship (For 2nd Year of Enrollment) *After enrollment	Master's students Students enrolled in the 3rd and 4th semester	One year I: 450,000 JPY (Approximately 25% of enrolled students) II: 100,000 JPY (Approximately 20% of enrolled students)
Tuition Reduction Scholarship for International Students (Graduate Students Category I) *At the time of enrollment	Students must be self-finance and be on a "Student" visa Those who passed the entrance examination with outstanding results	Minimum standard duration of degree program 100% of tuition fees
Tuition Reduction Scholarship for International Students (Graduate Students Category II) *At the time of enrollment	Students must be self-finance and be on a "Student" visa Those who did not receive "Graduate Students Category I"	One year 20% of tuition fees

Graduate Student Career Path Support Centre, Scholarship and Grants Website:





## Student Life at Ritsumeikan

For more details  
about living in Japan:



### Housing (OIC International House)

- All share-type rooms, with 6 people living in 1 unit (individual bedrooms)
- Resident Mentors (RMs) • Building manager available during the day
- Auto-lock entrance • Located approximately 18 minutes away from campus on foot (approximately 10 minutes by bicycle)

\*RMs: Residents who work with the university and building managers to ensure that OIC I-House residents can have a safe and comfortable dormitory experience by providing support to residents and encouraging exchange.

### Monthly Lodging Fees

\*As of September 2024

Type of fee	OIC I-House
Security deposit (returned when moving out)	1 month's rent
Rent	JPY 55,000 / month
Utilities & Internet	JPY 7,200 / month
Bedding Rental	JPY 2,000 / month
Entrance fee (covers move-out inspection and cleaning)	JPY 10,000

\*If I-House reaches capacity, some students may be placed in Global House.  
(On the Premises of OIC Campus)



### Life Expenses

Life expenses will vary depending on each student's individual lifestyle, but the following is a list of estimated expenses for an average student.



Notes	Approximate Monthly Cost
Rent	40,000 – 70,000 JPY
Utilities	10,000 JPY
Internet	4,000 – 6,000 JPY
Basic Food	30,000 – 50,000 JPY
National Health Insurance	2,000 – 3,000 JPY
Mobile Phone	3,000 – 7,000 JPY
Local Transportation	12,000 JPY
Leisure Activities	25,000 JPY
<b>Total</b>	<b>126,000 – 183,000 JPY</b>

### Language Support Programs

Our graduate school encourages students to learn Japanese language. Graduate Studies Office offers some Japanese language programs.

For more  
information:



### Beyond Border's Plaza (BBP)

Beyond Border's Plaza (BBP) offers many different opportunities to learn languages and cultures. The BBP is composed of several different areas, including the study area stocked with language education texts and books, the support desk where a special lecturer is stationed to provide students with advice, the communication rooms where students can pick a foreign language through conversation classes, and which can be rented by students for private group study, and the commons space where international exchange events and activities are held.

