

ADMISSIONS

	Examination Date	Application period
The 1st selection	July 1, 2023	May 30 – June 8, 2023
The 2nd selection	August 27 2023	July 24 – August 4, 2023
The 3rd selection	October 7, 2023	September 6 – 20, 2023
The 4th selection	January 20, 2024	December 7 – 21, 2023

※For interview and oral examinations will be conducted through the Internet.

How to apply



Online Registration Website



<https://www.guide.52school.com/guidance/net-kyutech-g/eng/>

Admission Application Guidance



<https://www.lsse.kyutech.ac.jp/english/admission/information.html>



Kyushu Institute of Technology

MESSAGE FROM DEAN

Invitation to Life Science and Systems Engineering



Dean
Takashi YASUDA

Graduate School of Life Science and Systems Engineering (LSSE) was established in 2000 at Kitakyushu Science and Research Park to promote advanced research based on superior biological functions and implement them into practical engineering technology. LSSE has succeeded in creating frontier technologies for meeting social needs in broad technical fields related to environment/energy, robot/artificial intelligence, medical application, etc.

Diversity in students is a big feature of LSSE. In addition to students from two undergraduate schools of Kyushu Institute of Technology, many students gather from domestic universities and colleges of technology throughout Japan and from various overseas universities. Collaborative works among these students with different experiences and values generate fresh ideas leading to technical innovation as well as fostering communication ability with recognition of diversity.

LSSE has educational programs and research projects in collaboration with universities and companies within Kitakyushu Science and Research Park. Also, LSSE is offering study abroad programs with overseas partner universities, and conducting many international joint research projects with them. Through these programs and projects students can strongly enhance their global perspectives.

We invite you to LSSE to immerse yourself in a cutting-edge education and research environment and to launch your promising career on an international stage.

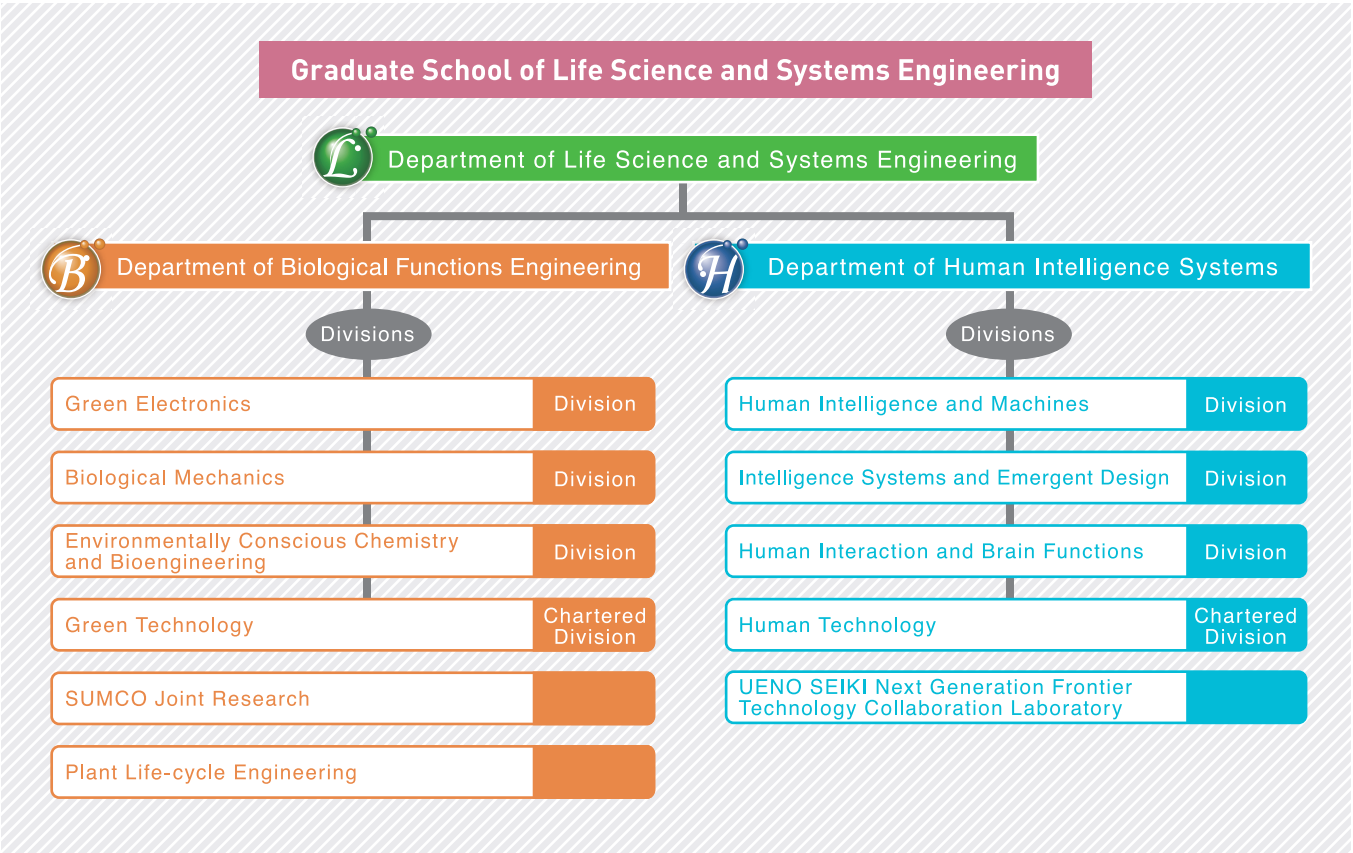
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CHARACTERISTICS of the graduate course Utilizing Life in Engineering Applying Engineering to Life

Distinguishing Features of the Graduate School

The basic objective of this graduate school is the education and development of engineers and researchers capable of elucidating the structures and functions of living organisms for resource and energy saving, environmental symbiosis, human affinity, and other properties, and to develop their technological utilization. To achieve this goal, under the masters program, its Department of Biological Functions Engineering applies the superior functions of organisms to the solution of problems and needs that confront society, and its Department of Human Intelligence Systems develops the skills and capabilities for building an optimum society of ease and comfort in a world of complex intelligence-body-environmental systems. On the other hand, under the doctoral course of obtaining specialization in the life science and systems engineering field, focus is directed towards the promotion and intensification of cross-specialization and global education. The school is accordingly dedicated to the development of professionals that are constantly focusing on the emerging trends in research and technology and working to achieve innovation and advances. The school, in short, is dedicated to the development of globally oriented professionals who can work with society to meet the needs and solve the problems that confront it today and contribute to a sustainable and harmonious future.



SPECIAL COURSES FOR INTERNATIONAL STUDENTS

MAIN ACTIVITIES

SPECIAL COURSE

Advanced Assistive Robotics (Global AAR) Course

This course is an international course operated by our institute since 2015, and consists of Japanese and international students in the Department of Human Intelligence and Systems Engineering (masters course) and the Department of Life Science and Systems Engineering. We have accepted students from diverse fields such as integrated circuits, control, sensing, nanosystems, artificial intelligence, LOT systems, behavioral science, and neuroscience.

The course is designed to accommodate international students by using English as the language for slide presentations and Q&A sessions. Besides, the course provides opportunities for English presentation and communication training through journal clubs where students read and understand the latest papers, AAR seminars with top-notch lecturers, and the practicum in Robot Operating System.



Kyushu Institute of Technology

Global AAR Course



Website URL: https://www.brain.kyutech.ac.jp/global_aar/

ABOUT



GAAR course students



Poster Session for the Journal Club Course

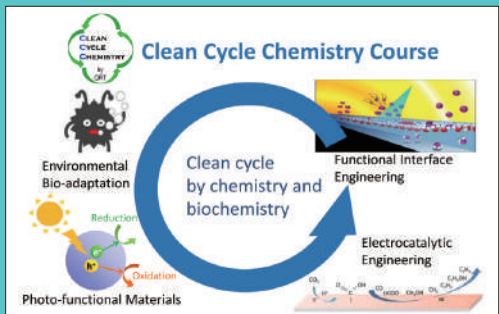
01

ACTIVITY

Clean Cycle Chemistry Course to learn SDGs realized by chemistry

The SDGs are the "17 goals set by 193 UN member states to achieve in the 15 years from 2016 to 2030" adopted at the 2015 UN Summit. The "Clean Cycle Chemistry Course" is an active learning program with the theme of research and development aiming at the goals that can be achieved by chemical technology among the 17 goals and the establishment of the chemical technology. Professors in charge of this course are advanced researchers who promotes green chemistry research and green biogeochemical research to make elements a recyclable resource. The professors not only gives lectures, but also conducts active learning as a FACILITATOR of "cultivation of creativity". In one of the compulsory subjects, students will plan and present concept and chemical methods that students can contribute to achieving their goals in their respective research fields. Excellent Presentation Prize will be awarded to excellent proposal, and in addition, feasible collaboration proposals will be developed into cross-disciplinary cyclical chemistry research by conducting collaboration demonstration experiments between the students and Professors in charge of this course. This course is intended for graduate students in the master's program, and takes and masters the designated 6 compulsory subjects (The language used for all curriculums is Japanese) . Those who complete the course will be received a "Certificate of Completion of the Clean Cycle Chemistry Course".

ABOUT



Research fields of Clean Cycle Chemistry Course



Experimental room for collaboration research

SPECIAL COURSE

Global Education of Green Energy and Green Environment (GE³) Course

This course provides an integrated program of education and research related to "green energy/green electronics technology" and "carbon-neutral technology", with a view to the future of energy and environmental cooperation across a wide area of Asian countries, including Japan. It is also an innovative program to develop 21st-century global engineers who can maintain a sustainable socio-economy and lead the world through global seminars and collaborative projects. Education and research on these green technology will not only contribute to the development of peaceful, safe, and secure societies but also step forward towards achieving the Sustainable Development Goals (SDGs). Lectures are also designed for international students, and it is possible to complete the master's course in English only. "GE³ Seminar" provides state-of-the-art technologies and research topics inviting lecturers from academics and Japanese companies.

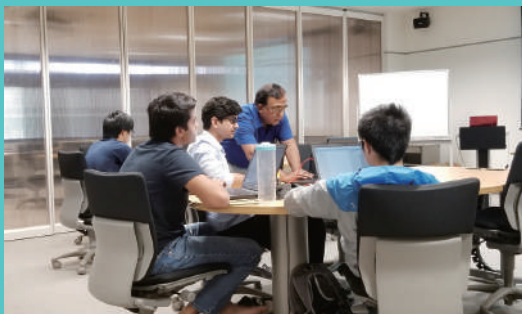
- Printable photovoltaic cells
- Biomolecular Engineering
- Functional materials and their electrochemical devices
- Organic electronic devices
- Motor-drive system
- Highly efficient and flexible energy-conversion
- Environmental-Benign Functional Materials
- Next-generation power semiconductor devices and their applications



Website URL: <http://www.life.kyutech.ac.jp/~ge3/en/>



ABOUT



Exercises on Measurement Control Systems



Seminar

02

ACTIVITY

MSSC

It will be 10 years since MSSC overseas education and research base was established. MSSC is operated jointly with University of Putra Malaysia (UPM) . MSSC is an international center promoting education and research along with supporting various activities such as short-term study programs, research programs at UPM, corporate internships with Japanese companies in Malaysia, and alumni associations with Malaysian graduates. The most representative program between the two schools is SAES, which is held alternately every year at each university. The number of participants has grown to more than 500 even though both countries under the COVID-19 pandemic.

These our activities have also greatly spread on the outcome of the research of both schools. The number of papers co-authored by UPM is increasing year by year. Regarding Field Weighted Citation Impact (FWCI) from 2019 to 2022, Kyutech is 0.95 and UPM is 1.04. However, co-authored publication is 1.28.

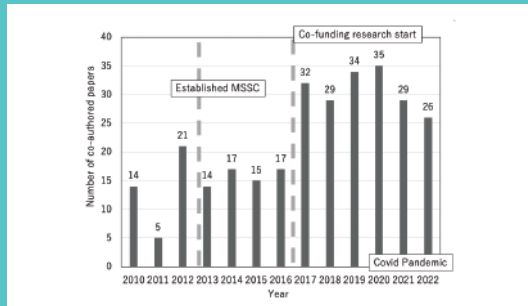


Website URL : <https://www.kyutech.ac.jp/english/mssc/>

ABOUT



Alumni event: Look East Policy 40th Anniversary and Kyutech Meets the Alumni in Malaysia (4th Dec 2022 in Malaysia)



The number of papers co-authored by the University and UPM

MAIN ACTIVITIES

Join Robot Competitions!!

03
ACTIVITY

Hibikino-Musashi@Home

The Kyutech Home Service Robot team Hibikino-Musashi@Home (HMA) won the first prize two years in a row in Domestic Standard Platform League (DSPL) of RoboCup 2017 and 2018, and Partner Robot Challenge (Real Space) in World Robot Summit 2018 and 2020 (held in 2021). HMA also won the first prize six times in RoboCup JapanOpen.

<https://www.brain.kyutech.ac.jp/~hma/>



ACHIEVEMENT

- 1st RoboCup 2017 Nagoya, @Home DSPL first place.
- 1st RoboCup 2018 Montreal, @Home DSPL first place, P&G Dishwasher Challenge Award
- 1st World Robot Challenge 2018, 2020 (held in 2021), Service Robotics Category Partner Robot Challenge Real Space first place. METI Minister's Award. RSJ Special Award.
- 3rd RoboCup 2019 Sydney, @Home DSPL third place.
- 2nd RoboCup 2021 Worldwide (Online), @Home DSPL second place.
- 1st RoboCup Asia-Pacific 2021, @Home OPL first place, DSPL first place, Simulation first place.
- 3rd RoboCup 2022 Bangkok, @Home DSPL third place
- 1st RoboCup JapanOpen 2018, @Home Open Platform League (OPL) first place. JSAI Award.
- 1st RoboCup JapanOpen 2019, @Home OPL first place, DSPL first place.
- 1st RoboCup JapanOpen 2020, @Home OPL first place, DSPL first place, OPL Technical Challenge first place.
- 1st RoboCup JapanOpen 2021, @Home DSPL first place



TEAM INTRODUCTION

Team KUROSHIO, the allied team of 8 institutions including Kyutech, won the second place and 1 million US dollars in Shell Ocean Discovery XPRIZE, the international competition of autonomous ocean exploration technologies.



Kyutech Underwater Team won in the AUV League of Underwater Robotics Competition in Okinawa URC in 2020. As the URC is held in the sea, AUVs are required to be highly autonomous and completeness.



Hibikino-Toms, agricultural robots must work in the actual field and need AI, gentle mechanism to living things. Kyutech "Tomato-ers" join the Tomato-Harvesting-Robot competition and show good results (Winner in 2019, 3rd in 2020, 2nd in 2021).



Hibikino-Musashi, the Kyutech Robo Cup MSL team Hibikino-Musashi won the championship more than 10 times in Japan Open and one of veteran teams in World Cup. Each team joins with 5 soccer robots which act autonomously with mounted sensors only.

DEPARTMENT OF BIOLOGICAL FUNCTIONS ENGINEERING

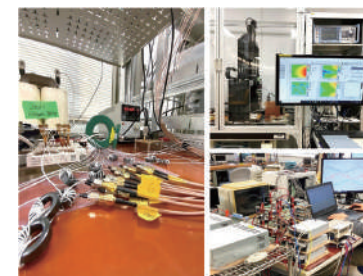
Graduate School of Life Science and Systems Engineering

Division Overview



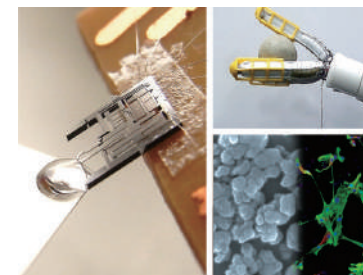
The research and education in this department deals with the realization of materials, structures and energy conversion functionalities of nature/organisms along with their utilization in engineering. The main objective of this department lies in discovering solutions to social issues like the global environment and human health to promote the creation of new industries, by integrating the fields of the environment, energy, materials, and bioengineering. Apart from this, global education such as international internship has been performed at our international research bases.

Divisions



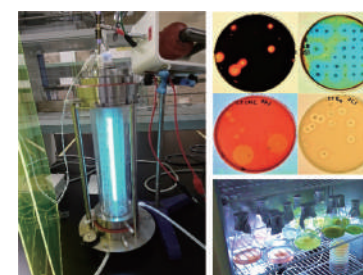
Division of Green Electronics

This division is devoted to the investigation of "green electronics technology," such as the fabrication and evaluation of printable solar cells, new functional materials, and their application to electrochemical devices, organic photo-electronic devices, construction of flexible and efficient power conversion and motor control systems, development of energy production systems utilizing renewable energies and environmentally friendly devices with carbon materials. The teaching curriculum is provided under the research themes outlined above.



Division of Biological Mechanics

The research and education in this division are conducted based on mechanical engineering such as the mechanics of materials, fluid and thermodynamics, the dynamics of machinery and micro-machining, and the materials science of metals and ceramics. These activities contribute to the following area of industrial/medical applications: (i) the maintenance and recovery of bio-functions, (ii) medical and welfare support, (iii) development of biocompatible materials and medical devices, and (iv) design and development of biomimetic materials and intelligent machines.



Division of Environment Conscious Chemistry and Bioengineering

The goal of this division is to re-vitalize the engineering technologies responsible for the sustainable development of industries and society with environmental consciousness. The academic field of this division includes chemical and biological research and technologies that are learned from the highly efficient reactions of biological systems. Environmentally conscious chemistry and bioengineering may lead to innovations in chemical and biological technologies. This division strives to globalize our graduate program through the development of frontier research in environmentally conscious chemistry and bioengineering.

FACULTY MEMBER

Faculty Member


Department of Biological Functions Engineering

Department of Biological Functions Engineering

FACULTY MEMBER

Faculty Member

Division of Green Electronics



Research Area

Power Electronics

Professor, Ph.D

Tsuyoshi HANAMOTO

Study on power electronics and its application. Development of motor controls and power conversion systems

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URL

http://www.life.kyutech.ac.jp/~hanamoto/

Keywords

Research Overview

● Power electronics
● Motor control
● Hardware control
● High efficiency power conversion
● Environmentally friendly control

Development of human-friendly and environmentally friendly electrical power conversion systems and application for motor control systems.

Division of Green Electronics



Research Area

Power Semiconductors, Power Electronics

Professor, Dr. Eng.

Ichiro OMURA

Power semiconductors, Power electronics and systems

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omura@life.kyutech.ac.jp

URL

http://power.kyutech.ac.jp/


Keywords

Research Overview

● Power Semiconductor Device
● Power Electronics
● Carbon Neutral
● Silicon Wefer
● Condition Monitoring

Development of ultimate power semiconductor devices to atcheve carbon neutral. Power semiconductors are key device for xEVs, PVs and wind firm for the energy efficiency.

Division of Biological Mechanics



Research Area

Functional Biomaterials

Professor, Ph.D.

Toshiki MIYAZAKI

Development of novel biomaterials for tissue repair

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Keywords

Research Overview

● Biomaterial
● Biocompatible material
● Ceramics
● Hybrid material
● Artificial bone
● Artificial joint
● Cancer treatment

Development of biocompatible materials for repair and regeneration of bone, tooth and nerve
Development of ceramic processing with low energy consumption inspired by biological system
Development of microparticles for cancer treatment

Division of Biological Mechanics



Research Area

Intelligent machine

Associate professor, Ph.D. (Eng.)

Kazuto TAKASHIMA

Study on soft sensors and actuators, and applications to medical, welfare and industrial technologies

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http://www.life.kyutech.ac.jp/~ktakashima/

Keywords

Research Overview

● Smart soft materials
● Soft actuator
● Endovascular treatment
● Tactile sensor
● Surgical simulator
● Stiffness control
● Biomimetics
● Biotribology

Applications of shape-memory materials and artificial muscle to human-interactive robot. Development of soft tactile sensor. Development of device placement simulator for endovascular treatment.

Division of Green Electronics



Research Area

Nanomaterials,solar cells, Metal ion batteries

Professor, Ph.D.

Tingli MA

Development of nanomaterials and application for solar cell,metal ion batteries, metal air batteries

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http://www.life.kyutech.ac.jp/~tinglima/


Keywords

Research Overview

● Design and synthesis of Nano material
● Li ion battery
● Na ion Battery
● Metal air battery
● Perovskite solar cell
● High performance
● Low cost
● Application

Design and sytheses of nanomaterials and their characterization. Development of new materials for stable perovskite solar cells. Development electrode materials with high performance and low cost for application to Li-ion batteries and Na-ion batteries, as well as metal-air batteries.

Division of Green Electronics



Research Area

Functional Materials and Devices

Professor, Ph.D.

Shyam S.PANDEY

Synthesis and Characterization of Photo-functional Materials for Advanced Device Applications

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Keywords

Research Overview

● Molecular design
● Solar cells
● Organic semiconductors
● Organic devices
● Photo-functional materials
● Smart materials

Design and development of photo-functional materials for energy harvesting and organic electronic devices.

Division of Biological Mechanics



Research Area

MEMS-based biomedical engineering

Associate Professor, Dr. Sci.

Momoko KUMEMURA

MEMS,Microfluidics for oncological studies

E-mail

momo@life.kyutech.ac.jp

URL

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Keywords

Research Overview

● MEMS
● Micro Total Analysis Systems
● Micromachining
● Mechanical characterization
● Real-time measurement
● DNA
● Tumor cell
● On-chip analysis

Applying MEMS (Micro Electro Mechanical Systems) technology to biological research at the molecular, cellular, and tissue level. Development and characterization of novel microfluidics for mechanical, chemical, and genetic assays for oncological studies.

Division of Biological Mechanics



Research Area

Harmonic Functional Materials

Associate professor, Ph.D.

Jin NAKAMURA

Development of harmonic functional materials towards medical and environmental applications

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Keywords

Research Overview

● Functional materials
● Ceramics
● Metals
● Organic molecules
● Tissue regenerative medicine
● Environmental purification

Development of composite materials (ceramics, metals, and organic molecules) that exhibit multifunctions in response to stimuli emitted by living organisms.
Development of synthetic processes for composite materials with controlled structures at molecular order. Development of materials for tissue regeneration medicine and environmental purification.

Division of Green Electronics



Research Area

Power semiconductor, Semiconductoer material

Associate Professor, Dr. Eng.

Akihiko WATANABE

Development of diamond power devices to realize the next generation power society

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URL

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Keywords

Research Overview

● Diamond
● Power semiconductor
● Ultra high voltage power device

Research on ultra-high performance power devices based on the superior semiconductor properties of diamond. The realization of diamond power devices will contribute to the realization of a decarbonized society by enabling the highly efficient use of electrical energy and the construction of energy grids with the direct current transmission.

Division of Biological Mechanics



Research Area

Biomechanics

Professor, Dr. Eng.

Hiroshi YAMADA

Biomedical Engineering and Biomechanics for Life-Sustaining Technologies

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yamada@life.kyutech.ac.jp

URL

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Keywords

Research Overview

● Biomedical engineering
● Microbiomechanics
● Mechanical testing
● Finite element method
● Sensor device development
● Vascular diseases
● Pressure injury
● Endodontic instruments

Medical diagnosis assistance and prevention of diseases and injuries through measurement-device development, mechanical testing, constitutive modeling and computational analysis, focusing on mechanics of diseased arteries, endodontic treatments, prevention of pressure injury

Division of Environment Conscious Chemistry and Bioengineering



Research Area

Functional Interface Engineering

Professor, Dr. Eng.

Tetsuya HARUYAMA

Establishing technology from elucidation of interface functions: leading to solutions to social issues

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URL

http://www.life.kyutech.ac.jp/~haruyama/


Keywords

Research Overview

● Functional interface
● New energy
● CO₂ fixation
● Radical chemical process
● Phases and Interfaces

We are developing research to realize various functional interfaces (reaction fields) by elucidating the functions of heterogeneous interfaces. "Chemical resource conversion of nitrogen, oxygen, and water (phase interface reaction technology)", "interface that converts CO₂ into resources", "process technology with low environmental load", "safe decomposition of harmful substances", etc.

Division of Environment Conscious Chemistry and Bioengineering



Research Area

Microbial Biotechnology

Professor, Ph. D.

Toshinari MAEDA

Advanced Biotechnologies using Unique Microbial Functions

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Keywords

Research Overview

● Metabolic Engineering
● Protein Engineering
● Genetic Engineering
● Environmental Biotechnology
● White Biotechnology
● Bioremediation
● Environmental Bio-adaptation
● Bacterial interaction

Unique microbial functions can be elucidated and improved using biotechnologically-engineered approaches to construct an innovative technology which should be useful to the environment and human society.

Division of Biological Mechanics



Research Area

Biofluid Engineering

Professor, Dr.Eng.

Masaaki TAMAGAWA

Biofluid Engineering for Advanced Medicine and Development of Medical Devices

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Keywords

Research Overview

● Computational Fluid Dynamics (CFD)
● Flow visualization
● Blood flows
● Hemolysis and Thrombus formation
● Shock wave drug delivery systems
● Micromachine with concentration Marangoni effect engine
● Fractal analysis and network of arterials
● Biomechanical Analysis of Brain Injury by Fall

1.Computational and experimental studies of Hemolysis and Thrombus formation in blood flows, 2. Application of Shock Waves and Ultrasonic to Drug Delivery Systems, Water treatment, Tissue Engineering, 3.Development of driving force of micromachines by investigating chemotaxis of neutrophile, Keyword:Bio-fluid dynamics, Bio Medical Engineering,CFD, Shock Wave

Division of Biological Mechanics



Research Area

Bio-microdevices

Professor, Ph.D.

Takashi YASUDA

Study on Bio-microdevices for Medical Research and Drug Development

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Keywords

Research Overview

● Micromachine
● MEMS (Micro Electro Mechanical Systems)
● Micro-nanofabrication
● Surface modification
● Cell culture
● Cell analysis
● Biosensing
● Microliquid handling

Using techniques of microfabrication and cell culture, we are developing biomedical microdevices such as microfluidic devices for single-cell analysis, microelectrode array devices for extracellular potential measurement, microhole array devices for production/separation of extracellular vesicles, etc.

Division of Environment Conscious Chemistry and Bioengineering



Research Area

Analytical Physical Chemistry

Professor, Ph.D.

Naoya MURAKAMI

Spectroscopic analysis on semiconductor photocatalyst and development of photocatalytic system for light-energy conversion

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Keywords

Research Overview

● Photocatalyst
● Photoacoustic spectroscopy
● Nanomaterial
● Photoelectrode

Analysis of photofunctional material using photoacoustic spectroscopy. Development of photocatalytic system for light-energy conversion.

Division of Environment Conscious Chemistry and Bioengineering



Research Area

Biopolymers, Structure and Function

Associate Professor, Ph. D.

Tamaki KATO

Design, synthesis, and conformational analysis of functional biomolecules.

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http://www.life.kyutech.ac.jp/~tmkato/


Keywords

Research Overview

● Peptide
● Protein
● Enzyme
● Amino acids
● Molecular design
● Organic Synthesis
● SAR

Design, synthesis, and conformational analysis of peptide-based artificial functional molecules (Peptide nanostructures, peptide-based drug design etc) .

Division of Environment Conscious Chemistry and Bioengineering



Research Area

Biomolecular Engineering

Associate professor, Ph.D.

Shinya IKENO

Development and application of functionalized nanomaterials using biomolecular

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Keywords

- Functionalized peptide
- Genetic engineering
- Recombinant protein
- Biopesticide
- Drug screening
- Biostimulants
- Biosensor
- Nanoparticle

Research Overview

I have been studying development of functionalized nanomaterial combined with biomolecule and nanoparticle, and application of functionalized biomolecular to bioprocess such as production of recombinant protein.

Division of Environment Conscious Chemistry and Bioengineering



Research Area

Catalyst Electrolytic Engineering

Associate Professor, Ph.D.

Yoshiyuki TAKATSUJI

Efficient and selective electrochemical conversion of substances

E-mail

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Keywords

- Catalytic metal electrode
- Plating technology
- CO₂ fixation
- Energy and environment
- Electrochemistry

Research Overview

Our research has committed to solving to environmental and energy problems with the catalytic a metal electrode that can produce the efficiency substance. The catalytic metal electrodes have been developing and also analyzing the reaction mechanism and the produced substance. We will pursue research in the field of clean cycle chemistry (Tri-C) and achieve the goals of the SDGs.

Division of Green Technology



Research Area

Mechatronics

Visiting Professor, Doctor of Engineering

Hideki HONDA

Mechatronics Control to fit in human society

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Keywords

- Mechatronics
- Control Theory
- Motion Control

Research Overview

As robots are good examples, mechatronic devices are now used in various fields as well as in the industry. Therefore, in addition to research on the high-speed and high-accuracy performance required by the industry, we also study mechatronics technology that is kind to people and supports them.

Division of Environment Conscious Chemistry and Bioengineering



Research Area

Environmental-Benign Functional Materials

Associate Prof, Ph.D. in Engineering

Yoshito ANDO

Design and evaluation of functional materials based on biomass and/or waste with a high-added value forward to sustainable society

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URL

https://www.life.kyutech.ac.jp/~yando/wp/?page_id=34


Keywords

- Biomass
- Sustainable Society
- Additional value
- Cellulose
- Agricultural waste
- Global Issue
- Polymer Materials
- Organic Synthesis

Research Overview

We aim to realize a material cyclical society based on both environmental preservation and economy. Highly value-added functional materials based on characteristics of waste and biomass are established and evaluated.

Division of Green Technology



Research Area

Micro-Technology

Professor, Ph.D.

Iwao SASAKI

The research on the upgrading of the materials for Mechatronics equipments

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URL

http://www.life.kyutech.ac.jp/~sasaki/sasaki_j.htm

Keywords

- Functional Thin Film
- Solid Lubrication Bearing
- Vapor Deposition
- Magnetic Material
- Sensor

Research Overview

Research on functional materials utilizing the unique phenomena, which are prominent in a micro/nanometer scale.

Division of Plant Life-cycle Engineering



Research Area

Plant Life Cycle Engineering

Special Appointment Associate Professor

Masahiro NAKANO

Plant Life Cycle Engineering

E-mail

nakano@life.kyutech.ac.jp

Keywords

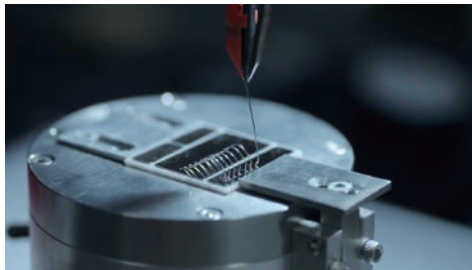
- Plant Life Cycle
- Robot welding
- Image analysis
- Thermal elasto-plastic analysis
- AI
- Equipment diagnosis
- Welding repair

Research Overview

Plant Life Cycle Engineering (Research on autonomously controlled robot welding, and Research on thermal elasto-plastic analysis of welds and optimization of welding order)



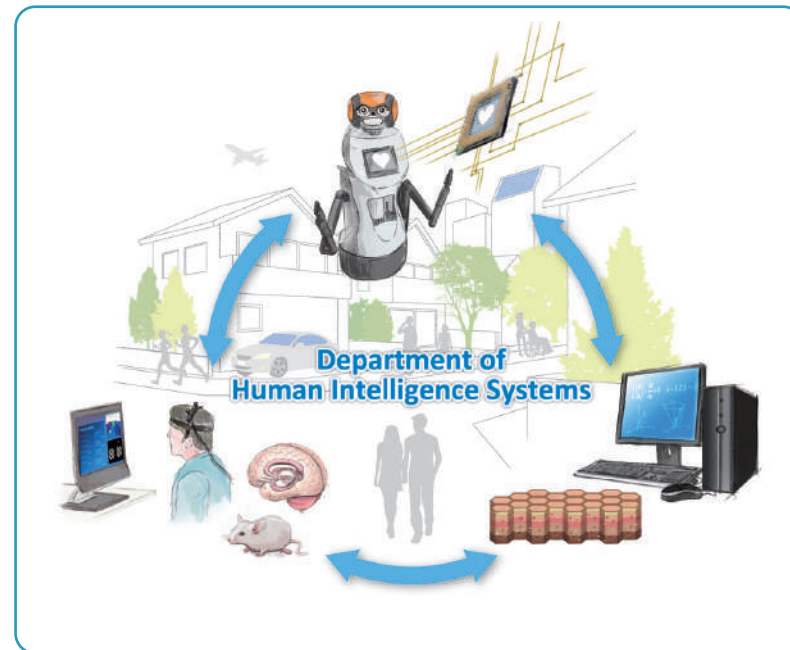
Department of Biological Functions Engineering



DEPARTMENT OF HUMAN INTELLIGENCE SYSTEMS

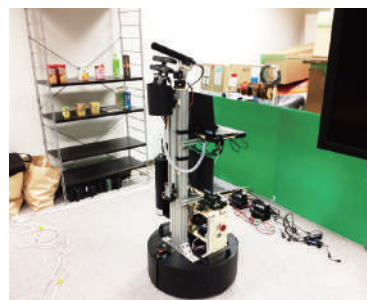
Graduate School of Life Science and Systems Engineering

Division Overview



Department of Human Intelligence Systems aims to incorporate the principles of human intelligence into intelligent information processing platforms and artificial intelligent systems, as well as to actively contribute to the development in the industry. The research and education in this department covers but is not limited to (i) advanced development of mechanical systems and devices such as intelligent autonomous robots, (ii) intelligent information system development and artificial intelligence algorithms design that incorporates the principles of human reasoning, (iii) scientific analysis of social activities and human intelligence by using mathematical modeling, brain science and cognitive science in general.

Divisions



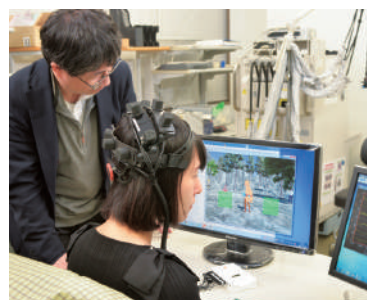
Division of Human Intelligence and Machines

Division of Human Intelligence and Machines is teaching and researching in the fields of robotics and devices, which could realize human-like intelligence by utilizing rational and significant structures as well as functions of biological organisms to achieve low-energy consumption, harmony with the environment, and human-friendly behavior. Through the teaching and research, we will bring students up to be persons and professionals who are actively involved in the global world with to create new public services, new business, and new social value.



Division of Intelligence Systems and Emergent Design

The division is engaged in the design of new technologies and theories that are inspired by human intelligence. It is a form of societal engineering focusing not only on cognitive functions of recognition, learning, and reasoning, but also on social abilities with emotions, Kansei, and communications. This field requires the study of mathematical modeling, informatics, and systems engineering toward a comprehensive understanding of computation in brain-body-environment interaction and an advanced development of intelligent partners and platforms.



Division of Human Interaction and Brain Functions

It is important to study the relationship between the function of the brain, and the nature of society made by humans to clarify human intelligence. In this division, we study the characteristics of neurons of which the brain consists, the information processing in which many neurons are involved, behaviors as results of the processing, and the communication mechanism of humans in a society.

Department of Human Intelligence Systems

FACULTY MEMBER

Division of Human Intelligence and Machines



Research Area Field Robotics

Professor, Ph.D. Kazuo ISHII
Research on field robotics and their applications

E-mail ishii@brain.kyutech.ac.jp

URL <http://www.brain.kyutech.ac.jp/~ishii/>

Keywords

- Field robot
- Underwater robot
- Agricultural robot
- Soccer robot
- Inspection robot
- Motion control system
- Neural networks

Research Overview

Development of field robots such as underwater robot, agricultural robot, inspection robot, and research on related topics, environment recognition system, self-localization system, adaptive learning system, motion control system, bio-inspired information processing, etc.

Division of Human Intelligence and Machines



Research Area Human function substitution systems

Professor, Ph.D. (Eng.) Chikamune WADA
Research on developing functional substitution system for the disabled/the elderly people based on human sensory/motor characteristics

E-mail wada@brain.kyutech.ac.jp

URL <http://www.brain.kyutech.ac.jp/~wada/>

Keywords

- Human interface
- Assistive technology
- Functional substitution
- Biological information
- Biological data measurement
- Rehabilitation engineering

Research Overview

Research on developing human-friendly assistive device/substitution system for the disabled/the elderly people based on psychophysical analysis of human sensory-motor systems.

Division of Human Intelligence and Machines



Research Area Intelligence Emerging Nanosystems

Professor, Dr. Eng. Hirofumi TANAKA
Design, development, and integration of nanodevices for artificial intelligence hardware devices.

E-mail tanaka@brain.kyutech.ac.jp

URL <http://www.brain.kyutech.ac.jp/~tanaka/>

Keywords

- Intelligent information processing nanodevices
- Artificial intelligence nanodevices
- Neuromorphic nanodevices
- Integrated circuits for nonlinear dynamical nanosystems, and nanostructure device designing

Research Overview

Research and development of electric nanodevices for artificial intelligence hardware, whose target is to generate new electrical functionalities by using the circuit of the nanodevices.

Division of Human Intelligence and Machines



Research Area Brain-like Computer System

Professor, Ph.D. Hakaru TAMUKOH
Realization of a brain-like computer system and its application to human-friendly systems

E-mail tamukoh@brain.kyutech.ac.jp

URL <http://www.brain.kyutech.ac.jp/~tamukoh/>

Keywords

- Brain-like computer
- Softcomputing
- hw/sw complex system
- Digital hardware design
- Home service robotics

Research Overview

A brain-like computer system laboratory aims to realize a brain-like computer based on a hardware/-software complex system and its application to embedded systems on home-service robots.

Division of Human Intelligence and Machines



Research Area Brain-Like Intelligent Machines

Associate Professor, Ph. D. Hiroyuki MIYAMOTO
Development of brain-like intelligent machines based on computational neuroscience, with emphasis on construction of self-learning robots

E-mail miyamo@brain.kyutech.ac.jp

URL <http://www.brain.kyutech.ac.jp/~miyamo/>

Keywords

- Learning by watching
- Skill acquisition
- Motor learning
- Autonomous robots
- Image processing
- Neural network

Research Overview

Development of learning by watching robot, skill acquisition robot, motor learning robot, welfare robot.

Division of Human Intelligence and Machines



Research Area Bio-inspired artificial vision

Associate Professor, Ph.D. Shinsuke YASUKAWA
Information processing in biological sensory systems and their applications in field robotics

E-mail s-yasukawa@brain.kyutech.ac.jp

URL <http://www.brain.kyutech.ac.jp/~s-yasukawa/>

Keywords

- Bio-inspired system
- Visual information processing
- Robot vision
- Embedded system

Research Overview

Development of living creature observation/manipulation technique using robot, Simulation of the visual nervous system, Development of Bio-inspired robot vision system, Trials of their techniques in field, etc...

Division of Human Intelligence and Machines



Research Area Field Robotics

Associate professor, Dr.Eng. Yuya NISHIDA
Development of control system and technology for field robot

E-mail y-nishida@brain.kyutech.ac.jp

Keywords

- Field robot
- Autonomous underwater robot
- Motion control
- Motion analysis

Research Overview

To reliably accomplish the mission, our laboratory develops robot that robustly navigates in actual environment, and its elemental technology. We survey actual environment using developed robot and system to benefit society.

Division of Human Intelligence and Machines



Research Area Nanomaterial Intelligence

Assistant prof, Dr. Sci. Yuki USAMI
Creation for brain-inspired information processing system by nanomaterial

E-mail usami@brain.kyutech.ac.jp

Keywords

- Nanomaterial
- Hybrid material
- Mesoscopic physics
- Neuromorphic computing
- Nanostructure analysis
- Molecular electronics
- In-materio reservoir

Research Overview

Research and development of nanoscale various basic physical properties of organic/inorganic materials for extracting flexible bio-inspired function. Creation of unconventional nanodevices by circuitization and deviceization from nanomaterial function.

Division of Human Intelligence and Machines



Research Area Brain-like AI Systems

Specially Appointed Professor
Dr. Eng., Dr. Sci. **Osamu NOMURA**

Research and development of brain-like AI models and circuit architectures

E-mail nomura@brain.kyutech.ac.jp

Keywords	Research Overview
<ul style="list-style-type: none"> ● AI ● Brain-like information processing ● Analog integrated circuits ● Robot control ● Reinforcement learning 	Research and development of integrated circuit models of brain functions to achieve extremely low energy consumption, targeting service and assistive robots.

Division of Human Intelligence and Machines



Research Area Brain-like Integrated Circuit, and Nonlinear Dynamical Systems

Assistant Professor, Dr.Eng. **Seiji UENOHARA**

Design and development of integrated circuits, devices and systems for brain-like artificial intelligence

E-mail uenohara@brain.kyutech.ac.jp

Keywords	Research Overview
<ul style="list-style-type: none"> ● Brain-like artificial intelligence ● Integrated circuits for nonlinear dynamical systems ● Mixed signal integrated circuits ● Nonlinear time-series data analysis 	Research of brain-like processing models, integrated circuit (VLSI) design toward high efficiency brain-like artificial intelligence and its social implementation.

Division of Intelligence Systems and Emergent Design



Research Area Human and Social Intelligence Systems

Professor, Ph.D. **Tomohiro SHIBATA**

Science and Engineering Understanding of Humans and Societies, Assistive System Development and Social Implementation

E-mail tom@brain.kyutech.ac.jp

URL https://www.brain.kyutech.ac.jp/~tom/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Robotics ● Artificial intelligence ● Biomechanics ● Biological Signal Processing ● Mixed Reality/Metaverse ● Brain Science ● Medical/KAI/GO/Welfare ● Social Implementation 	We are researching and developing assistive technologies to apply various knowledge and technologies, such as robotics, artificial intelligence, biomechanics, and biological signal processing, to the medical, nursing, and welfare fields. We are also promoting the social implementation of these technologies in collaboration with various players, including the elderly, people with disabilities, medical, nursing, and nursing care professionals, private companies, and governments.

Division of Intelligence Systems and Emergent Design



Research Area IoT / Big Data

Professor, Doctor of Engineering **Sozo INOUE**

Human Activity Recognition and Future Disease Prevention

E-mail sozo@brain.kyutech.ac.jp

URL http://sozolab.jp

Keywords	Research Overview
<ul style="list-style-type: none"> ● Human Activity Recognition ● Web / Ubiquitous ● Application of Machine Learning ● Big Data ● Application for Healthcare / Nursing ● Behavior Change 	We develop human activity recognition from smartphones and sensors, and their services. We also cultivate AI by collecting medical and nursing care big data.

Division of Human Intelligence and Machines



Research Area Brain-like Integrated Systems

Specially Appointed Professor, Dr.Eng. **Takashi MORIE**

Design and development of integrated circuits, devices and systems for brain-like artificial intelligence

E-mail morie@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~morie/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Brain-like artificial intelligence ● Vision and image recognition model ● Integrated systems for robots ● Integrated circuit for nonlinear dynamical system ● Analog integrated system 	Research and development of brain-like processing models, new functional devices and digital/analog integrated circuits (VLSI) and systems mainly targeted to service robots toward achieving brain-like artificial intelligence.

Division of Intelligence Systems and Emergent Design



Research Area Learning theory of brain-like artificial intelligence

Professor, Ph.D. **Tetsuo FURUKAWA**

Learning theories of brain-like artificial intelligence and mathematical modeling of behavior development

E-mail furukawa@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~furukawa/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Brain-like artificial intelligence ● Self-organizing systems ● Neural networks ● Machine learning ● Behavior development 	Our destination is to develop the learning theory and its algorithms, which enable us to discover general rules and intrinsic information underlying the given datasets. Typical themes are higher-order modeling through meta-learning and multi-task learning. Besides, we also challenge to model children's behavior and development.

Division of Intelligence Systems and Emergent Design



Research Area Intelligent Information Processing Systems

Professor, Ph.D. **Keiichi HORIO**

Development of fundamental technology of intelligent information processing system aiming at modeling and analyzing behavior of human beings

E-mail horio@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~horio/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Behavior analysis ● Communication analysis ● Estimation of personality ● Intelligent data analysis ● Intelligent image processing ● Learning system 	The Research aimed at estimating and classifying individual characteristics by measuring and analyzing human behavior. Besides, we pursue optimization of the intervention method based on analysis results and aim to apply it to real-world society, especially data analysis involving humans.

Division of Intelligence Systems and Emergent Design



Research Area Brain-Inspired Robotics and Intelligence Dynamics

Professor, Ph.D. **Hiroaki WAGATSUMA**

Investigating principles of neural dynamics, body kinetics/morphology and societal abilities to understand biological intelligence

E-mail waga@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~waga/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Nonlinear dynamics ● Emergent intelligence ● Episodic memory and emotion ● Societal robot ● Computational neuroscience ● Neuroinformatics ● Sport biomechanics ● Rehabilitation support 	We explore systems design inspired by biological emergent intelligence, through an understanding of what makes us human (intelligence), how we are embodied in the environment (body kinetics/morphology), why emotional and social aspects are so important to us (sociality). Our mathematical modeling and investigation are applied to the design of an artificial intelligence, robot development, and rehabilitation tools.

Division of Intelligence Systems and Emergent Design



Research Area Kansei Information Processing, Soft Computing

Associate Professor, Dr. (Eng.) **Kaori YOSHIDA**

Designing information system based on Kansei Information Processing

E-mail kaori@brain.kyutech.ac.jp

URL https://www.brain.kyutech.ac.jp/~kaori/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Kansei Information Processing ● Human-Computer Interaction ● Soft Computing ● Cognitive Psychology ● Intelligent Image Processing ● Information System Design 	We study Kansei Information Processing as one of Human-Computer Interaction research. The research aims to design appropriate information systems based on psychological, social, and technical analysis. Research topics include human-centered design, soft computing, usability, conceptual models, interface metaphors, human cognitive models, implicit behavior analysis, and interactivity structures.

Division of Intelligence Systems and Emergent Design



Research Area Statistical learning theory

Assistant Professor, Ph.D. **Hideaki ISHIBASHI**

Learning theory of information geometrical hierarchical-modeling

E-mail ishibashi@brain.kyutech.ac.jp

Keywords	Research Overview
<ul style="list-style-type: none"> ● Meta-modeling ● Multi-task learning ● Meta-learning ● Bayesian inference ● Machine learning ● Energy based model ● Information geometry 	The aim of our research is to develop the learning theory and its algorithms for meta-modeling, which enables to discover meta-knowledge by modeling a set of knowledges or models. We will apply the proposed framework to various fields, such as cognitive science and robotics.

Division of Human Interaction and Brain Functions



Research Area Team Management

Professor, Ph.D. **Doosub JAHNG**

A Story of diverse individuals becoming one as a team

E-mail jahng@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~jahng/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Team Communication ● Occupational Health Marketing ● Key Words Meeting* ● Versatile Educational Tools ● Comprehensive Health Resources Integrated Solution 	For diverse individuals to agree with each other and become one as a team, innate needs, learned knowledge/skills acquired needs from personal/environmental circumstances, self-action, health resources and communication become essential. We conduct research on the factors above by utilizing both people's conceptual needs and experimental/statistical designs to further our study on team management.

Division of Human Interaction and Brain Functions



Research Area Neuroscience

Associate Professor, Ph.D. **Yoshitaka OTSUBO**

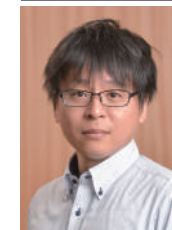
Taste transduction mechanisms

E-mail otsubo@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~otsubo/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Patch-clamp ● Ca²⁺-imaging ● Immunohistochemistry ● Single cell RT-PCR ● Action potentials ● Confocal laser microscope ● Signal transduction 	We investigate the cellular and molecular mechanisms underlying the signal processing occurred in mammalian taste buds and we contribute to develop a new signal processing based on features of taste buds.

Division of Intelligence Systems and Emergent Design



Research Area Bioinspired Intelligence Systems

Associate Professor, Ph.D. **Shuhei IKEMOTO**

Robots/Algorithms inspired from biological systems

E-mail ikemoto@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~ikemoto/index.html

Keywords	Research Overview
<ul style="list-style-type: none"> ● Bioinspired robot ● Bioinspired algorithm ● Learning control ● Stochastic resonance 	Behind sophisticated abilities of living organisms are the mechanisms that exploit demerits, e.g., complexity/flexibility of body and unignorable noise, as merits. Toward understanding and applying the mechanisms, academic studies about biologically inspired systems based on robotics have been conducted.

Division of Human Interaction and Brain Functions



Research Area Neuronal rhythm and Brain Machine Interface (BMI)

Professor, Ph.D. **Kiyohisa NATSUME**

The relationship between the generation of neuronal rhythm and memory process

E-mail natume@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~natume/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Neuronal rhythm ● EEG ● Circadian rhythm ● Hippocampal ● Brain machine interface ● L2 English learning ● Music rhythm ● esports 	We study experimentally on the generation of neuronal rhythm and compute the rhythm on the computer. We also developed the e-learning system for Japanese English learners using BMI technology.

Division of Human Interaction and Brain Functions



Research Area Mathematical Neural Network

Associate Professor, Ph.D. **Katsumi TATENO**

Neural coding and Neurodynamics

E-mail tateno@brain.kyutech.ac.jp

URL http://www.brain.kyutech.ac.jp/~tateno/

Keywords	Research Overview
<ul style="list-style-type: none"> ● Neural coding ● Hippocampus ● Medial entorhinal cortex ● Memory ● Learning ● Glass catfish ● Electoreceptor 	Our interests are complex behavior of neural activity and theoretical investigation on neural coding in the brain. Specifically, we are currently researching neural network models of the medial temporal lobe.

Division of Human Technology



Research Area Systems Intelligence

Visiting Professor, Ph.D. **Hiroshi NAKAJIMA**

Basic and applied research on intelligent system development

Keywords	Research Overview
<ul style="list-style-type: none"> ● Intelligent system ● Soft computing ● Computational intelligence ● Causal analysis ● Social intelligence ● Systems healthcare ● Health management ● Machine learning 	Research and development on algorithms of intelligent systems by studying soft computing, statistical analysis, and social intelligence in human-machine collaboration systems with application studies.

Division of Human Technology



Research Area Vision Sensing

Visiting Professor, Ph.D.

Masaki SUWA

Basic and applied research on intelligent vision system

Keywords	Research Overview
<ul style="list-style-type: none">● Vision Sensing● 3D Sensing● Physics-based Vision● Pattern Recognition	Research and development on vision sensing technologies such as object detection, 3D surface reconstruction and reflectance property analysis, for applications in factory automation or society's infrastructure.

UENO SEIKI Next Generation Frontier Technology Collaboration Laboratory



Research Area Image sensing

Specially Appointed Associate Professor

Kazumichi TANAKA

Creating added value for semiconductor inspection machine using AI technology

Email k-tanakazu@brain.kyutech.ac.jp

Keywords	Research Overview
<ul style="list-style-type: none">● Artificial Intelligence● Control● Energy Conservation● Image Processing● Vibration Control/Vibration Isolation	Value-added creation for mechatronics technologies such as Machine Vision System, high-speed, high-precision, energy-saving, and vibration control by combining AI technology with semiconductor inspection machine manufactured by Ueno Seiki

Division of Human Technology



Research Area Biomimetic Robot System


Visiting Associate Professor, Ph.D.

Takayuki MATSUO

Development of Robot Systems based on motion control and information processing system of animals

Keywords	Research Overview
<ul style="list-style-type: none">● Biomimetic robot● Adaptive control● Nonlinear oscillator● Neural network	Development of mobile robot systems inspired by mechanisms of animals for irregular terrain, underwater and so on.

Research Center for Neuromorphic AI Hardware



Research Area Brain-inspired artificial intelligence

Assistant Professor, Ph.D.

Yuichiro TANAKA

Development of brain-inspired artificial intelligence and its application for robots

Email tanaka-yuichiro@brain.kyutech.ac.jp

Keywords	Research Overview
<ul style="list-style-type: none">● Soft computing● Computer systems● Hippocampus● Amygdala● Prefrontal cortex● FPGA● Home service robot	Aiming for a future in which home service robots work as human partners, I develop artificial intelligence models that mimic the functions of the brain, especially those of the hippocampus, amygdala, and prefrontal cortex, and hardware that operates them with low power consumption.

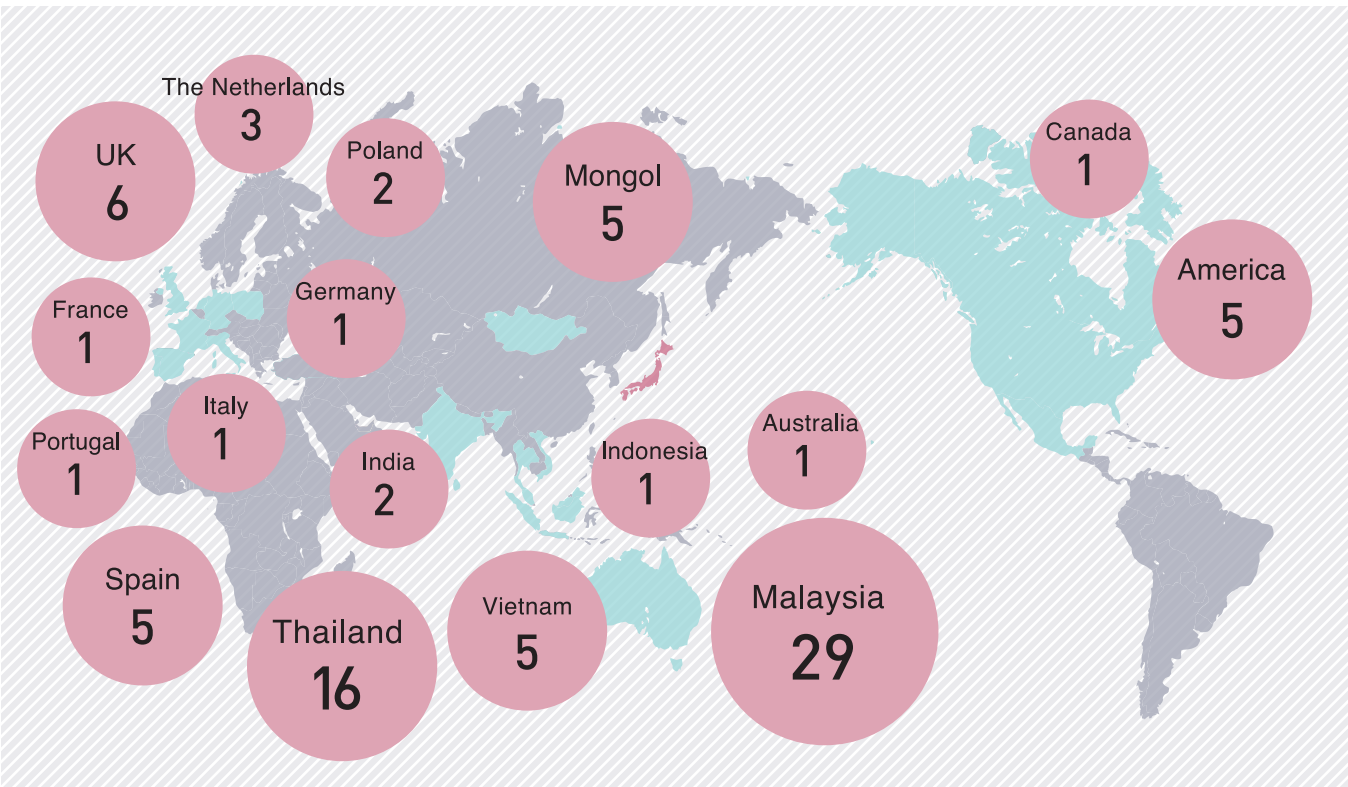


Department of Human Intelligence Systems



INTERNATIONAL EXCHANGES

List of overseas dispatched students in FY2022 (by country)

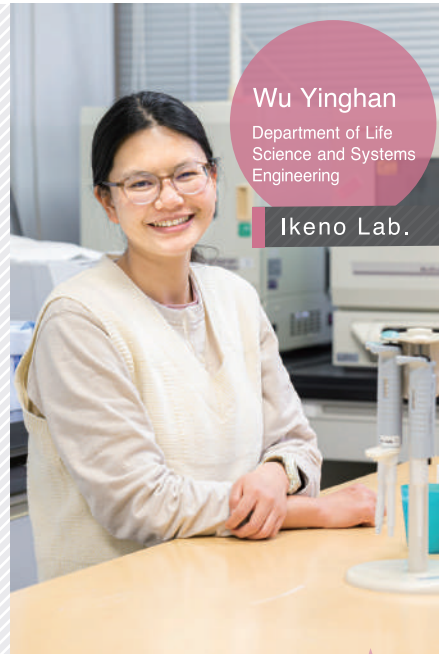


Tuition and other fees, and exemption	The tuition and other fees are shown below. Only a limited number of students can get exemption of full or half of fees through a selection procedure. ▶ Application fee: ¥30,000 ▶ Enrollment fee: ¥282,000 ▶ Tuition fee: ¥267,900 per half year
Scholarship, research assistant and living cost	Students can apply for various scholarships financed by our university or other foundations. The monthly stipend is from ¥20,000 to ¥140,000. Doctoral course students may get about ¥45,000 per month as a research assistant. The monthly cost of living in Kitakyushu city is approximately from ¥60,000 to ¥80,000 including house rent and utilities.
Accommodation	Students can apply to stay in the international student housing (Sakura House) near Wakamatsu campus. However, as we have limited rooms available, not all students will be able to stay at Sakura House. The rent of Sakura House is from ¥11,700 to ¥18,000 per month.
Tutor	A tutor, who is current student in the laboratory, can help new students for their study and daily life in Japan. This tutor system is available for the first three months after enrollment.
Japanese language class	Students can take the appropriate Japanese language class.

▼English Information for international students in our web site is as follows.

Q <https://www.kyutech.ac.jp/english/>

STUDENTS' MESSAGE



Wu Yinghan
Department of Life
Science and Systems
Engineering

Ikeno Lab.

My future dream

I want to a principal investigator and have my own laboratory.

Why Kyutech?

In October 2019, I participated in the double-degree-exchange program between YangZhou University and Kyutech. During the period, I studied bioengineering, especially in the field of biomolecules. There friendly research environment in the Ikeno Lab, always allow me to asking questions freely and that gave me the enthusiasm for learning more. So after obtaining my master degree, I chose to continue my ph.D study here.

About Research

Now, I am continuing my study at the functional biomolecules field. As we all know, the peptides have a lot of biofunctions in vivo and have demonstrated a promising ability as therapeutic agents and biochemical tools. I am working on the cyclic peptides study, especially, analysis the cyclic peptides' functions in the cell and screening for the new functional cyclic peptides.

Best point of Kyutech

The people in kyutech are nice and kind people. The stuff in kyutech, they always

give kind help and support with a big smile. The students in the school, they are very patient and attentive. In fact, I learn the Japanese from my Lab. members. They are always very patient to teach me over and over again.

My recommended place from Kyutech

There are many beautiful views in Kyutech. My favorite is the sunset in the parking. I like to enjoy such a good moment when I am going to the shop. It healing your soul.

What surprised me most in Japan

The shops here close early and it is important to manage your time when you want to buy something.

What kind of life

When I first arrived in Japan, I didn't know any Japanese. I learned it slowly, and although my Japanese is not very good even now. Luckily, the students in the lab are very good Japanese teachers. Until now, I have been learning Japanese from them.

Wakamatsu Campus in Kitakyushu Science and Research Park



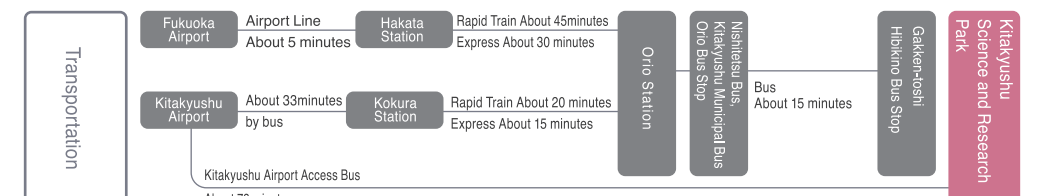
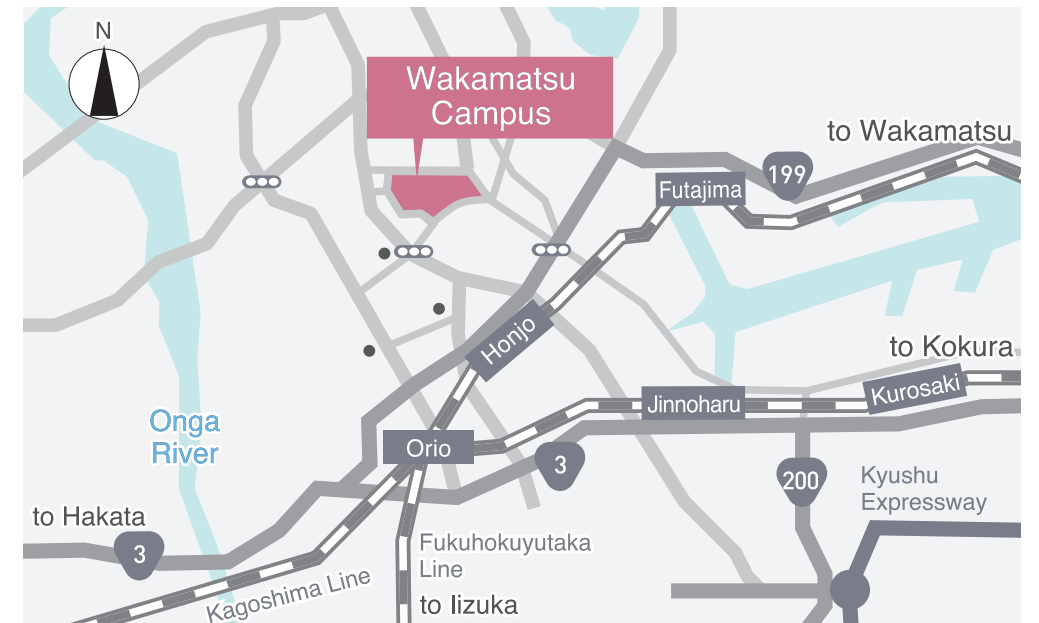
Graduate School of Life Science and Systems Engineering



Cafeteria



Kitakyushu Science and Research Park



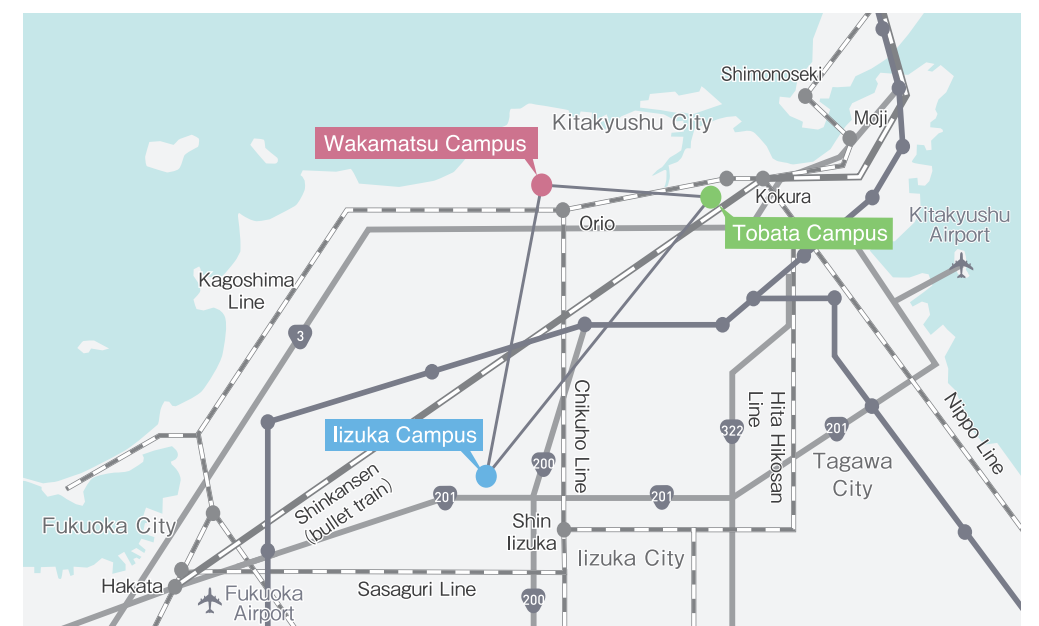
Other Campuses of Kyushu Institute of Technology



Tobata Campus



Iizuka Campus



Why Kyutech?

Kyutech provides an excellent and extensive setting for research, from its facilities to the assistance it gives its students.

About Research

Under Prof. Horio's supervision, I am currently using deep learning to analyze kindergartener behavior and the immediate surroundings. Professor Horio puts in a lot of effort and is always prepared to provide a helping hand; he consistently offered me a myriad of concrete suggestions that often proved to be spot on. He granted me the opportunity to go off on my own and keep on facilitating the discussion about my research interests.

Best point of Kyutech

Many international students from places as diverse as America, Europe, Australia, and Asia have been accepted to study at Kyutech. That way, discussions among students can include a wide range of viewpoints (global perspectives), not just those gleaned from academic research or cross-cultural experiences.

My recommended place from Kyutech

For me, nothing beats spending time in the lab. It's not just a place to get work done; it's also a communal hub where people can swap tales unrelated to our studies. Having access to play sports with my peers in the gymnasium is one of the perks of studying at KYUTECH, making it one of my favorite places to go.

What surprised me most in Japan

The timely work and the dedication of the whole system in Japan is one of the things that has impressed me a lot.

What kind of life

It's wonderful to meet new people, and I've recently become part of a local community that has encouraged me to join celebrations of all kinds, from festive occasions to outings. If you plan on relocating to Kitakyushu with your family during your study, you'll be happy to know that the Kitakyushu International Association (KIA) is one of many expat support organizations in the area, providing a wide range of services to help us such as provide learning Japanese, organize some event, etc.



Supri Bin Amir
Department of Life
Science and Systems
Engineering

Horio Lab.

My future dream

I want to explore leading-edge research that makes a impact to the society.