Institute of Integrated Science and Technology

Research Introduction for IIST students

University Information

HOSEI University
Institute of Integrated Science and Technology

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Information hge@hosei.ac.jp

Please contact us via the inquiry form on the website.

Hosei Alumnus, Masahiro Hara invented QR code (1994)   Denso Co. Ltd.
Graduated from Hosei University in 1980

HOSEI University

TOP GLOBAL UNIVERSITY JAPAN

Be with us to make it happen !

Hosei university has its global policy to promote global research and educational collaborations.

Hosei University has been appointed as a member of the Top Global University Project by the ministry of education.

47 universities nationwide have been appointed as members and Hosei University is one of them.

Currently we have more than 200 partner universities all over the world.

We have several English based educational degree programs for international students. IIST is one of them.

Hosei university is open to anyone in the world.

We welcome you.

Massage from the Professor **KAZUO YANA**

小金井キャンパス

IIST Curriculum

English based graduate program of core majors with interdisciplinary fields
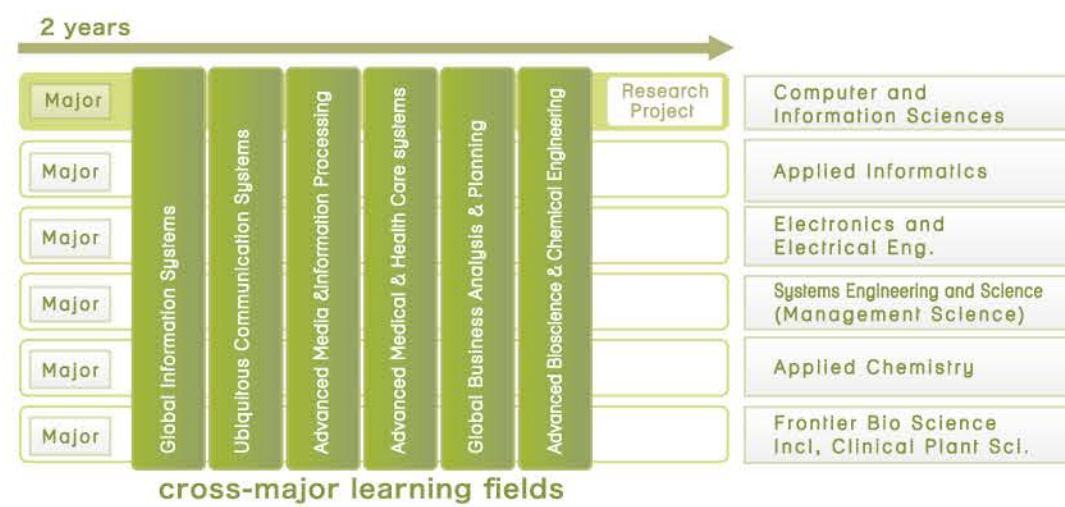
The goal of IIST is to foster scientists and professional engineers actively play an important role in the global community. With the optional Japanese reinforcement program, students can also acquire Japanese technical communication skills which strengthen their career development. Each IIST student will belong to one of eight study majors listed below.

Students can earn strong academic discipline in their major. In addition to these core major oriented curriculum, IIST provides a comprehensive learning environment which enables students to take interdisciplinary classes depending on the nature of their study. Namely there are six interdisciplinary fields of study.

Global Information Systems field to develop efficient and effective service systems in the cyber world (large scale system integration, cyber information security, software engineering, parallel and distributed systems, computer aided education, evolutionary computation)

Ubiquitous Network and Communication Systems field to develop ubiquitous/IoT systems and supporting network and communication systems (IoT technology and systems, smart sensors, data communication and networking technology, wireless communication systems)

Advanced Media and Information Processing field to develop methods for the image and data processing (augmented reality, computer graphics and vision, bigdata analysis, natural language processing, artificial intelligence, pattern recognition, biometrics, machine learning)

Advanced Medical and Health Care Engineering field to develop systems for medical diagnoses, treatment and health care (CT image processing, medical imaging, X-ray detector array design, biomedical signal interpretation and analysis, health care/stress management systems)

Global Business Analysis and Planning field to develop the methods for quantitative analysis of business related activities (mathematical finance theory, stock market analysis, reliability and quality assurance, portfolio optimization, operations research, business innovation)

Advanced Bioscience and Chemical Engineering field to develop advanced theory and methods for resolving global issues on environment, medicine, pharmacology, and agriculture (cell biology, biological systems, clinical plant science, materials chemistry, and environmental chemistry)

IIST learning structure has been shown below for the master's course. Doctoral students are to be focused on their research work, yet required to take a few course work classes. The IIST offers high standard curriculum accredited by MEXT: Japanese ministry of education, culture, sports, science and technology.

Major	Meng,Msc	Ph.D.
Computer and information Sciences	✓	✓
Electrical and Electronic Eng.	✓	✓
Applied Informatics (Information and Communications Technology)	✓	✓
Systems Engineering and Science (Management Sciences Track)	✓	✓
Applied Chemistry	✓	✓
Frontier Bioscience (Frontier Bioscience and Clinical Plant Science)	✓	✓
Mechanical Eng.	n/a	✓
Systems Engineering and Science (Advanced Sciences Track)	n/a	✓

2 years

Major → Research Project	cross-major learning fields	Result
Major	Global Information Systems / Ubiquitous Communication Systems / Advanced Media &Information Processing / Advanced Medical & Health Care systems / Global Business Analysis & Planning / Advanced Bioscience & Chemical Engineering	Computer and Information Sciences
Major		Applied Informatics
Major		Electronics and Electrical Eng.
Major		Systems Engineering and Science (Management Science)
Major		Applied Chemistry
Major		Frontier Bio Science incl. Clinical Plant Sci.

cross-major learning fields

http://iist.hosei.ac.jp/curriculum/

情報科学研究科　情報科学専攻　　　　　　　　　　　　　　　　　　　　　　　　▌ Academic Areas　　▌ Keywords

Graduate School of Computer and Information Sciences [Master's and Doctoral]
Major in Computer and Information Sciences

MINA AKAISHI [赤石 美奈]
Intellect engineering

Information compilation technology based on story structure; management, search and visualization techniques for knowledge media; science of historical knowledge and so forth

KAORU UCHIDA [内田 薫]
Pattern and image recognition and its applications

Applications of pattern and image recognition, biometrics, real-world innovation with information science

SATOSHI OBANA [尾花 賢]
Encryption,　Information security

Encrypting protocols, including secret sharing schemes and secure evaluation

NOBUHIKO KOIKE [小池 誠彦]
Parallel and distributed processing architectures and their applications

Research into practical applications for SMP PCs and PC clusters, intelligent parallel processing applications, implementation of distributed and parallel processing environments

YUJI SATO [佐藤 裕二]
Evolutionary computation, Intelligent computing, Soft computing

Genetic algorithms, Evolutionary algorithms, Swarm Intelligence, Reinforcement Learning for Dynamic and/or Multimodal problems, Distributed evolutionary computation, Evolutionary multi-objective optimization

TOSHIHISA NISHIJIMA [西島 利尚]
Algebraic coding theory and its applications

Aasymptotically good algebraic coodes, Weight enumerators, Maximum distance separable codes

KATSUNOBU ITO [伊藤 克亘]
Speech processing,　Multimodal dialogue systems,
Music information processing

Speech recognition, multimodal dialogue systems, speech interfaces, information retrieval, music information processing, data science

VLADIMIR SAVCHENKO [ウラディミール サブチェンコ]
Geometric modeling,　CG,　animation

Hybrid volume modeling, which include mathematical models, numerical methods, software algorithms, and programming realization

TAKAFUMI KOIKE [小池 崇文]
3D imaging technology,　Computer graphics,
Augmented reality

Real world-oriented media, optical information processing, physical computing, real-time rendering, computational photography

AKIRA SASAKI [佐々木 晃]
Programming language processing systems,
Domain-specific languages,　Attribute grammars

Programming language processing system implementation technologies and theory

YASUNARI ZEMPO [善甫 康成]
Computational methodology and computational materials science,Development of new computational algorithms in large-scale parallel computers

High perfomance computing and its applications such as optical propergations and optical properties of materials

HIROSHI HANAIZUMI [花泉 弘]
Image processing and recognition,
Remote sensing,　Image measurement

Remote sensing, image processing for medical purposes, facial recognition, and mobile camera applications

SOICHIRO HIDAKA [日高 宗一郎]
Programming languages, Infrastructure software

Programming languages, Program transformation, Bidirectional transformations and their applications to model dirven engineering

RUNHE HUANG [黄 潤和]
Artificial intelligence,　Machine learning,
Neural network, Data mining and knowledge fusion

Knowledge representation and configuration, Knowledge discovery and fusion, Human cognitive process modeling, Associative memory and recall modeling

HIROSHI HOSOBE [細部 博史]
User interfaces,　Information visualization,
Computer graphics,　Constraint programming

Mathematical approaches to the construction of visual and interactive systems

SHUICHI YUKITA [雪田 修一]
Visualization of geometrical and abstract mathematical concepts

Using diagrams and other methods to visualize abstract concepts

YAMIN LI [李 亜民]
Computer architectures,　Parallel and distributed systems,　Mobile ad hoc networks

Interconnection networks, routing and broadcasting algorithms

TOSHIO HIROTSU [廣津 登志夫]
Internet,　Operating systems,　Ubiquitous computing

Dynamic relay control mechanisms for distributed virtual routers

SATORU FUJITA [藤田 悟]
High speed XML processing,　Web services,
Service-oriented software

Service strategy modeling, social simulation analyses, basic technologies for implementing the XML and Web services that sustain the service industry-centered society

JIANHUA MA [馬 建華]
Ubiquitous network and computing,　smart object, space and service,　autonomic and trusted system

Ubiquitous networking and communication

SHAOYING LIU [劉 少英]
Software engineering,　Automatic Software Testing, Formal engineering methods for Software Quality Assurance,　Software Error Prevention, Intelligent software engineering environment

Testing-Based Formal Verification, Automatic Test Data Generation, Automatic Program Inspection and Analysis, Formal Specification, Safety and Security Verficiation and Testing

TORU WAKAHARA [若原 徹]
Character recognition,　Distortion-tolerant image matching,　Pattern recognition

Text detection and character recognition in scene images, object tracking, and human behavior recognition

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理工学研究科　機械工学専攻　　　　　　　　　　　　　　　　　　　　　　　　▌ Academic Areas　　▌ Keywords

Graduate School of Science and Engineering [Doctoral only]
Major in Mechanical Engineering

KAZUYOSHI ARAI [新井 和吉]
Composite materials,　Aerospace structural materials,　Strength of materials

High velocity impact, Sand erosion, Bird strike

HIROAKI OSAWA [大澤 泰明]
Advanced materials engineering

Light metal sheet forming, Superplasticity, Non-Ferrous alloys

KIYOTAKA SAKINO [崎野 清憲]
Fracture mechanics,　Material properties

Strength of materials Impact engineering

CHIHARU ISHII [石井 千春]
Control engineering,　Medical robotics,
Rehabilitation engineering,　Assistive technology

Development of laparoscopic surgical robot, power assist suit, myoelectric prosthetic hand and its sensory feedback system, etc.

TADASHIGE KAWAKAMI [川上 忠重]
Combustion engineering,
Energy conversion engineering

Combustion, Internal combustion engine, Emission, Blended fuel

GENCI CAPI [チャピ ゲンツィ]
Intelligent Assistive Robotics, Multi-Robot Systems

Wheelchair Robot, Robot navigation, Industrial robot object recognition, Evolutionary Robotics, Neural Networks

HIDEAKI TSUKAMOTO [塚本 英明]
Mechanics of materials, Materials science, Micromechanics

Functionally graded materials, Plastic forming, high-temperature composites, Creep, Powder metallurgy

SHIGERU HAYASHI [林 茂]
Reacting fluid dynamics,　Gas turbine combustion,Liquid atomization and spraying

Low NOx combustion, Spray diagnostics and combustion, Low emissions gas turbine technology

GAKU MINORIKAWA [御法川 学]
Mechanical acoustics,
Environmental engineering,　Aviation technology

Noise control, Aeroacoustics, Sound quality, Small fan design, Aircraft design, 3D printing

HOSHIO TSUJITA [辻田 星歩]
Computational fluid dynamics,　Fluid machinery

Turbomachinery Highly loaded turbine cascade Secondary flow loss reduction

MOTOHISA HIRANO [平野 元久]
Nanotribology,　Atomistics of friction,
Computational mechanics

Atomistic simulation of friction, Atomic-scale measurement of friction, Computational mechanics of bulk materials

理工学研究科　電気電子工学専攻　　　　　　　　　　　　　　　　　　　　　　❚ Academic Areas　❚ Keywords

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Electrical and Electronic Engineering

KAZUYUKI ITO [伊藤 一之]
Perceptual information processing and intelligent robotics, Intelligent mechanics and mechanical systems, Systems engineering

Intelligent robotics, Rescue robot

YOSHIHUMI OKAMOTO [岡本 吉史]
Computational Electromagnetics Optimal Design, Multi-physics High-speed Large-scale Computation

Finite Element Method, Topology Optimization, Adjoint Variable Method, Parallel Computation, Electrical Machine
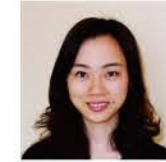
JINJIA ZHOU [周 金佳] MASTER'S ONLY
Algorithms and ASIC/FPGA architectures for multimedia signal processing

Low-power, high-performance, VLSI design, video coding, HEVC, H.264/AVC, compressive sensing

AKIRA YASUDA [安田 彰]
Electronic circuit engineering control engineering

Analog-Digital converter, Digital-Analog Converter, Analog Integrated Circuit, Analog RF circuit, Digital Direct Driven Technique, Digtal Speaker, Multi-coil Motor

TOSHIMICHI SAITO [斉藤 利通]
Nonlinear circuits, Neural networks, Swarm intelligence, Power electronics

Binary Neural Networks, Chaotic Circuits, Stability Analysis, Particle Swarm Optimization

JUN SHIBAYAMA [柴山 純]
Functional element engineering

Finite-difference time-domain method, Terahertz devices, Sensors

JUNJI YAMAUCHI [山内 潤治]
Electromagnetic wave transmission engineering, Design of passive optical devices

Beam-propagation method, Polarization converter, Surface wave antennas

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理工学研究科　応用情報工学専攻　　　　　　　　　　　　　　　　　　　　　　❚ Academic Areas　❚ Keywords

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Applied Informatics
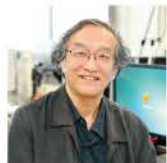
SHIGERU AKAMATSU [赤松 茂]
KANSEI information engineering

visual pattern recognition systems, facial image synthesis, human information processing

HITOSHI IYATOMI [彌冨 仁] MASTER'S ONLY
Intelligent information processing, Image recognition and analysis, Medical engineering

Deep learning, computer vision, machine learning, image proecssing, text mining, medical engineering

AKIHIRO FUJII [藤井 章博]
Distributed system design

Web Service, Semanitc Web, Collective Intelligence

KENJI MIYAMOTO [宮本 健司] MASTER'S ONLY
Programming languages

User Interfaces, Software engineering

KOICHI OGAWA [尾川 浩一]
Image processing, Medical imaging

computed tomography, image processing, medical imaging, x-ray detector, simulation technology

ATSUSHI KANAI [金井 敦]
Data networks and security Data comunications and security

cyber security, internet protocol, web service, privacy preserving

KAZUO YANA [八名 和夫]
Data processing engineering

Ubiquitous health care system, biosignal big data processing, Mental stress test via heart rate variability, Cardiac risk assessment

LEI LI [李 磊]
Intelligent information engineering, Algorithms

Fast Algoritms, Parallel Algorithms, Soft Computing, the Computational Complexity

MITSURU SHINAGAWA [品川 満]
IT engineering, Ubiquitous networks, Wireless networks, Optical measurement

Intra-body communication, Electro-magnetic shielding, Organic photovoltaics, Optical coherence tomography
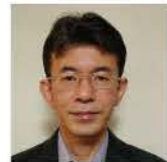
MAKOTO HIRAHARA [平原 誠] MASTER'S ONLY
Biological information processing

Vision, Memory, Neural networks, Machine learning
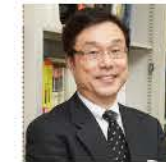
KOICHI WADA [和田 幸一]
Theoretical computer science

Computation , Parallel/Distributed Algorithms, Computer Aided Education

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理工学研究科　システム理工学専攻（創生科学系）　　　　　　　　　　　　　　❚ Academic Areas　❚ Keywords

Graduate School of Science and Engineering [Doctoral only]
Major in Systems Engineering and Science (Advanced Sciences Track)

SADANORI OKAMURA [岡村 定矩]
Galactic astronomy, Observational cosmology

galaxies, clusters of galaxies, early universe, astronomical image processing

TAKASHI KASUGA [春日 隆]
Radio astronomy, Developing highly sensitive electromagnetic wave detection technologies

Radio astronomy, Developing highly sensitive electromagnetic wave detection technologies

KAORU SUZUKI [鈴木 郁]
Ergonomics, Human factors, Human information sensing

Ergonomics, Human factors, Human information sensing

MAKOTO TAKIZAWA [滝沢 誠]
Information engineering

Distributed systems, Computer networks, Distributed dabases

YUTAKA KATO [加藤 豊]
Probability theory, Operations research

Analytic Hierarchy Process

KAZUYUKI KOBAYASHI [小林 一行]
Sensing engineering, Sensor signal processing

mobile robot, outdoor navigation, intelligent sensing

TETSUO TAMAI [玉井 哲雄]
Software engineering

software modeling, requirements engineering, self-adaptive systems

YASUYOSHI HORIBATA [堀端 康善]
Simulation engineering, Numerical analysis, Computational physics

numerical simulation, optimization, data assimilation, parallel computing

SHUICHI SATO [佐藤 修一]
Gravitational wave physics, Experimental tests of general theory of relativity

Gravitational wave, Laser interferometory

ISAMU SHIOYA [塩谷 勇]
Graph grammar,
Time series processing, Artificial intelligence

Complex systems, Traffic flow, Machine Language processing

YUKARI MATSUO [松尾 由賀利]
Laser spectroscopy, Atomic and molecular physics,Quantum electronics

laser spectroscopy of atoms and molecules laser ablation processes

TAKAO MIURA [三浦 孝夫]
Databases, Machine Learning

Data Models, Data Bases, Data Mining, Statistical Learning

理工学研究科　システム理工学専攻（経営システム系）

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Systems Engineering and Science （Management Science Track）

SHIN ISOJIMA [礒島 伸] MASTER'S ONLY
Nonlinear integrable systems
Integrable systems, Difference equations, Cellular automata, Ultradiscretization

TADASHI URATANI [浦谷 規]
Financial engineering
Derivative pricing, No aribitrage, Black-Scholes formulas

KENJIRO TAKAZAWA [高澤 兼二郎] MASTER'S ONLY
Mathematical engineering,　Discrete mathematics
Combinatorial optimization,　Graph algorithm, Matching theory

NOBUYUKI TAMURA [田村 信幸]
Applied probability theory,　Operations research
Optimal maintenance policy, Degradation process modeling, imperfect maintenance

TOSHIYUKI KATSURA [桂 利行]
Coding theory,　Algebraic geometry
K3 surface, Calabi-Yau variety, Elliptic surface, Abelian variety, Algebraic geometric code,

MITSUHIRO KIMURA [木村 光宏]
Reliability engineering,　Quality control engineering
Mathematical reliability modeling, Software reliability, Reliability and Quality data analysis

EISHI CHIBA [千葉 英史] MASTER'S ONLY
Operations research
Discrete algorithms, Scheduling,　Combinatorial optimization

YOICHI NAKAMURA [中村 洋一]
Economic engineering
Economic statistics, System of national accounts, Econometric analysis

HIROYUKI GOTO [五島 洋行]
Operations research,　High-performance computing
Discrete event systems, scheduling, geographic computation

TATSUYOSHI MIYAKOSHI [宮越 龍義]
Applied financial analysis
Financial crisis, Japanese and Asian financial system

KAZUHIRO YASUDA [安田 和弘] MASTER'S ONLY
Stochastic analysis;　Mathematical finance
Stochastic differential equations, Derivative pricing, Portfolio optimization, Stochastic numerical analysis

理工学研究科　応用化学専攻

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Applied Chemistry

TAKAYA AKASHI [明石 孝也]
Inorganic materials chemistry,　solid state electrochemistry
Solid state reactions,　Joining,　Sintering,　Grain growth,　Oxidation,　High temperature,　Ionic conduction

TAKAMASA ISHIGAKI [石垣 隆正]
Inorganic synthetic chemistry
Ceramic material,　Laser synthesis,　Wet chmeical synthesis,　Photocatalyst,　Optical Material

KENJI SUGIYAMA [杉山 賢次]
Polymer chemistry,　Organic chemistry
Biodegradable polymer,　Conjugated polymer, Fluoropolymer,　Water-soluble polymer

KAZUYUKI TAKAI [髙井 和之]
Materials Science,　Physical Chemistry
Electronic and energy devices,　Catalytic activity, Graphene,　2D-Materials,　Electronic properties

HIRONORI OGATA [緒方 啓典]
Materials Science,　Solid state chemistry
Organic-inorganic hybrid nanomaterials, Biomass-based materials,　Development of new functional nanomaterials for energy and sustainability and their device applications

ATSUSHI KAWACHI [河内 敦]
Organo main group element chemistry; organometallic chemistry
Maig group element,　Silicon,　Boron,　Organic synthesis

TAKAMASA MORI [森 隆昌]
Chemical engineering,　powder technology
Slurry,　Suspension,　Dispersion control of nano particles

AKIHIRO YAMASHITA [山下 明泰]
Chemical and biomedical engineering
Transport phenomena in biological systems and in medical devices,　Drug delivery systems

理工学研究科　生命機能学専攻（生命機能学領域）

■ Academic Areas　■ Keywords

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Frontier Bioscience (Frontier Bioscience Field)

TOMOYUKI KANEKO [金子 智行]
Biophysics, cell biology

Liposome, cell reconstruction, community effect, cardiomyocyte, multi-electrode array, cardiotoxicity, agarose microchamber

IKURO KAWAGISHI [川岸 郁朗]
Molecular biology, biophysics

Bacteria, signal transduction, receptor, molecular machine, protein structure and function, gene expression

TSUTOMU SATO [佐藤 勉]
Molecular biology

Virus, phage, bacteria, differentiation, DNA recombination, gene expression

YOSHIYUKI SOWA [曽和 義幸]
Biophysics

Molecular Motor, single-molecule detection

ANTONIO TSUNESHIGE [常重 アントニオ]
Biophysical chemistry, protein science, biomolecular spectroscopy

Hemoproteins, allostery, protein hydration, macromolecular crowding, protein refolding, microcalorimetry

MASAFUMI HIRONO [廣野 雅文]
Cell biology, Molecular biology

Cytoskeleton, centrosome, cilia, flagella, cell motility, cell division

NAOKI MIZUSAWA [水澤 直樹]
Phototrophic biology

cyanobacteria, photosynthesis, photosystem, lipid, environmental stress

KANEYOSHI YAMAMOTO [山本 兼由]
Molecular biology, genome biology

bacteria, transcription regulation, gene expression, nucleoide, signal transduction

理工学研究科　生命機能学専攻（植物医科学領域）

■ Academic Areas　■ Keywords

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Frontier Bioscience (Clinical Plant Science Field)

SEIJU ISHIKAWA [石川 成寿]
Plant clinical science

Plant fungal disease, Ecologigal control

KENRO OSHIMA [大島 研郎]
Clinical Plant Genomics

Phytoplasma, plant pathogenic bacteria, genome

TOSHIO SANO [佐野 俊夫]
Plant nutrition and physiology

Plant physiological disease, Mineral transporter, Mycorrhizal fungi

AKIO TATARA [多々良 昭夫]
Botanical medicine, applied entomology, plant acarology

Insect pest control. IPM

TAKESHI NISHIO [西尾 健]
Botanical medicine

Plant virology,Epidemiology

HIROSHI HAMAMOTO [濱本 宏]
Plant pathology, botanical medicine

Plant pathogenic bacteria molecular diagnostic of plant disease

http://iist.hosei.ac.jp/faculties/

Motivation for Further Studies

When I was working at Vinh Long Province Department of Agriculture & Rural Department in Vietnam as a technical staff. I tried to control Colletotrichum diseases. However, I failed to do it and thought that I don't have enough knowledge about plant pathology. The best way for me and for farmer is to gain enlarge knowledge. Our department is unique as it focuses on Clinical Plant Science. I believe that I can improve my skills in this Department.

What I'm studying

The Colletotrichum, one of a genus of fungi, includes many plant pathogens. In Hosei University, I study morphological and molecular analyses to identify species of Colletotrichum from symptoms on tropical plants. Also, I learn how to know about pathogenicity of the fungi. I have many friend in my lab and they are very kind and friendly. They always try to communicate with me by English and give me assistance whenever I face experimental problems.

TRUONG Hong Hanh
(Major in Frontier Bioscience / enrolled in 2016)

My dream has come true

I visited Hosei University for a week in March, 2016 as a participant of Japan-Asia youth exchange program in science called Sakura Exchange Program. Through the program, I touched the frontier of cutting edge technologies of Japan. I also had a chance to meet Prof. Iyatomi who is my current research supervisor. He introduced us his research on applications of artificial intelligence to image processing. I am particularly interested in his research on plant disease diagnoses based on the leaf image big data since the research ,I believe, could help the farmers of my country Vietnam. These exciting experiences in Japan made me decide to enroll in IIST. I have been enjoying both research and daily life here in Japan. Japanese language classes are also helpful for developing my future career to be a bridge engineer between Vietnam and Japan.

My research

My research topic is to develop an image processing system for plant disease diagnosis. Early diagnoses of the plant disease are important to prevent wide spread of virus disease over the farming field. Damage of such virus disease spread has been estimated over a 100 billion JPY annually. To overcome the current limitation of making diagnoses by human experts, I am trying to introduce the artificial intelligence technology to solver the issue. Thanks to the kind guidance of Professor Iyatomi, I developed the prototype system for the plant leaf image pattern classification using the deep learning technique. This is an interdisciplinary project with the people in bioscience major. I am glad to have such a wonderful chance to apply my IT technology to other field of science.

HUU QUAN Cap
(Major in Applied Informatics / enrolled in 2016)
(At the International Symposium at Hosei University (Mr. Cap Quan is on the left end.)

Motivation

As a student under DDP (Double Degree Program) exchange program, I studied one year in Hosei University under the supervision of Professor Jianhua Ma. I started doing the research of Cyber Individual right after I came to Hosei to meet my supervisor. Cyber-Individual with a short term 'Cyber-I', is a real individual's counterpart in cyberspace. During the DDP study, we discussed much about this research and conceived some new ideas based on Cyber-I, especially Cyber-Gene. During a year's study in Hosei university, I learned advanced information science in terms of ubiquitous and pervasive computing. Hence, I decided to continue my research on Cyber-Gene by IIST program.

Current Status and Future studies

In order to establish a platform for the development of Cyber-I, I built a Smartphone-based system for personal data management and personality analysis in my DDP period. Cyber-Gene, analogous to Gene for human, seems a new vision of Digital Gene to Cyber Individual. But Cyber-Gene is still on the conceptual phase now. In order to guarantee a comprehensive personal data for further research on Cyber-Gene, I proposed a context-aware scheduling in personal data collection from multiple wearable devices in the first doctoral year. In my future study, I'm going to focus on personality computing to approach Cyber-Gene.

GUO Ao (Major in Computer and Information Sciences / enrolled in 2016)