

TOYAMA KOSEN



Researchers List

2019

National Institute of Technology, Toyama college

President

Department	Name	Position	Research Fields	Research Subjects
President	Tomoji TAKAMASA	President	Thermohydraulics Nuclear Engineering Marine Engineering, Naval Architecture	Plug-in electric boat Characterization of near-propeller bubbles and thrust fluctuation in motor propulsion systems Flow characteristics under microgravity environment Radiation induced surface activation



President TAKAMASA Tomoji

Education Philosophies

Originality and Creation

Autonomy and Independence

Coexistence and Symbiosis

Department of Mechanical Engineering

Department	Name	Position	Research Fields	Research Subjects
Mechanical Engineering	Toyohisa ASAJI	Professor	Vacuum engineering, Plasma engineering	Development of plasma processing devices Research of electron cyclotron resonance plasma/ion sources
Mechanical Engineering	Makoto INOUE	Professor	Light metals Metal refining	Metal refining using vacuum distillation method Magnesium recycling using vacuum distillation and plastic working
Mechanical Engineering	Masaki OKANE	Professor	Fatigue and fracture of engineering materials, Friction stir welding	Fatigue properties of aluminum alloy and steel dissimilar joints by friction stirring Friction stir welding of dissimilar aluminum alloys Improving fretting fatigue strength using surface modification
Mechanical Engineering	Naoki SASE	Professor	Machine elements, Machining	Interests: Loosening of screw fasteners Analysis of loosening mechanism of screw fasteners Development of anti-loosening screw fasteners Evaluation method of anti-loosening capability
Mechanical Engineering	Hidemi SHIRAKAWA	Professor	Thermal engineering, Fluid engineering	Interests: Development of an energy transduction machine using the heat fluid phenomenon accompanied by phase change Keywords: heat exchanger, water-power generation system, geothermal energy machines
Mechanical Engineering	Katsuhiko TAKAHASHI	Professor	Metallurgy (ironmaking etc.), Surface treatment, Biomass	Ironmaking processes with low environmental load Research of composite materials made by select reduction Formation of Fe-Al on steel using new surface treatment Usage of charcoal carbonized from biomass

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Mechanical Engineering (Vice-President of Hongo Campus)	Tsunenobu TERANISHI	Professor	Heat and mass transfer	High-efficiency energy conversion and utilization Phase change phenomena of binary immiscible liquids Heat transfer problems of environmental protection and recycling technologies
Mechanical Engineering	Hidetoshi IKEDA	Associate Professor	Robotics	Cooperative step-climbing method using a wheelchair and a robot Docking method for a wheelchair and a care robot using both teleoperation and autonomous control
Mechanical Engineering (Center for Promotion and Advancement of Research)	Takao OTA	Associate Professor	Mechanics of materials, Composite engineering	Research Subjects: Development of green composites using agricultural wastes Interface control of polymer matrix composites Development of particleboard using rice husks Key words: Material characterization and mechanics, Agricultural wastes (rice straw, rice husks), Bio-based materials, Surface modification, Recycling and reuse
Mechanical Engineering	Masao KITA	Associate Professor	Material science	Development and characterization of oxide semiconductors with narrow and wide band gaps for optoelectronics Main techniques: XRD, TEM
Mechanical Engineering	Yoshinori SAKAMOTO	Associate Professor	Metallurgy, Material science	Interests: Improvement of metal corrosion resistance, Sn whiskers Main techniques: SEM, EDS, FIB, Hardness test, Corrosion resistance evaluation Main target materials: Low-grade gold, Gold plating, Sn plating

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Mechanical Engineering	Takeshi TOSHIMA	Associate Professor	Material science (Crystal growth)	Interests: Search effective parameters of shape-controlling, Development of new crystallization methods, Unveiling formation mechanisms of non-trivial shaped crystals Main techniques: SEM, EDS, XRD, TEM, FIB Main target materials: TaSe ₂ and TaSe ₃ (electron structure), SrTiO ₃ (photocatalyst), Calcium phosphates (environmental material), Ash (renew)
Mechanical Engineering	Keiichi MASUYAMA	Associate Professor	Material science (Powder metallurgy)	Interests: High-pressure torsion (HPT). HPT is a severe plastic deformation (SPD) process to produce bulk nanostructured materials. Main target materials: Metal pure powder (Cu, WC, Co, Ni, Ti) Consolidation process: up to 1 GPa with up to 100 turns Main techniques: microhardness and tensile strength and SEM and CIM (FIB) of consolidated sample by HPT.
Mechanical Engineering	Fumie YOSHIKAWA	Associate Professor	Chemical engineering, Aerosol science technology	Improvement of power generation performance using a thermoelectric system Evaluation of air-filtration systems
Mechanical Engineering (Center for Collaborative Solutions)	Minoru ISHIGURO	Lecturer	Fundamental Mathematics of Plasticity	Observation of compressive interface of metal forming Implementation of FEM to metal forming Investigation of snow removal procedures for assisting human-intensive snow removal work in a marginal society Investigation of agriculture processes assisting marginal society
Mechanical Engineering	Tomoki TAJIRI	Assistant Professor	Robotics	Interests: Autonomous mobile robots, Simultaneous Localization and Mapping, Cooperative control
Mechanical Engineering (Center for Collaborative Solutions)	Hisashi YAMAMOTO	Assistant Professor	Fluid control engineering, Microprocessing technology	Interests: Magnetic functional fluids and applications Analysis and observation of magnetic cluster behavior during processing, Precision polishing of a cylinder inner surface using magnetic functional fluid

Department of Electrical and Control Systems Engineering

Department	Name	Position	Research Fields	Research Subjects
Electrical and Control Systems Engineering (Center for Collaborative Solutions)	Kazuhiro URAKAZE	Professor	Control engineering	Development of mechatronics educational materials Application of microprocessors in control engineering
Electrical and Control Systems Engineering	Yutaka SAKURAI	Professor	Thin film engineering (Electromagnetic devices and materials)	Interests: Forming films using sputtering Main techniques: Magnetron sputtering Main target materials: TiW (film resistor), NiFe/MnRu (exchange-biased film)
Electrical and Control Systems Engineering	Keisuke SATO	Professor	Autonomous robots	Interests: Solve the robot motion planning problem Main techniques: Maze search algorithm, CPFS algorithm.
Electrical and Control Systems Engineering	Hiroshi SHIBATA	Professor	Strength of materials, Computational mechanics	Inhomogeneous materials, Impact responses, Non-destructive testing, Numerical simulation
Electrical and Control Systems Engineering	Eiji TAKADA	Professor	Radiation measurement	Development of new radiation detector systems ("Tissue equivalent" radiation detector with an organic photodiode, Fast neutron detector for nuclear fusion plasma diagnostics, Shape-variable gamma ray camera for Fukushima-Daichi nuclear power plant decommissioning, etc.)
Electrical and Control Systems Engineering	Toshiyuki NISHI	Professor	High-voltage engineering	Interests: Measurement of creeping discharge length and aspect

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Electrical and Control Systems Engineering	Noboru MOMOSE	Professor	Control engineering, Robotics and thermal science	Actuator arrangement for link mechanism. Parallel link mechanisms, Verbose actuator Control method for moving bodies, Operability, Comfort Heat transfer control using a Peltier element. High-efficiency uses of solar energy
Electrical and Control Systems Engineering	Masaki IZAWA	Associate Professor	Machine tool, Machining process, Flexible material handling techniques Additive manufacturing	Cutting force monitoring based on endmill rotational speed Development of book page turning device composed of two rotating rods Development of an AM welding overlay using a robot welding system
Electrical and Control Systems Engineering	Fumihiko ISHIDA	Associate Professor	Biological information science/engineering	Interests: Analysis of human behavior and application of human interfaces Research themes: Information analysis of neural signals, Quantitative analysis of physical human communication, Synergy analysis of muscle activity, Pointing systems, Gaze estimation systems, Motor assist systems
Electrical and Control Systems Engineering	Shin-ichiro KANEKO	Associate Professor	Robotics	Localization and Mapping for autonomous mobile robots Biped locomotion
Electrical and Control Systems Engineering	Kazuhiro TADA	Associate Professor	Nano-engineering	Interests: single nanometer and atomic level fabrication and manufacturing Research topics: Multiphysics in SPM, e-beam, NIL
Electrical and Control Systems Engineering	Akihiro FUJISAKI	Associate Professor	Condensed matter physics	Optical properties of alkali-rare-gas exciplexes Few-body systems (especially Efimov effect in atomic physics).
Electrical and Control Systems Engineering	Hiroto FURUKAWA	Associate Professor	High-frequency circuits Power electronics	Propagation characteristics of microwaves and their application for non-destructive diagnostics Wireless power transfer system using circuit resonation

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Electrical and Control Systems Engineering	Takuya KITAMURA	Assistant Professor	Machine learning, Soft computing	Online learning for pattern recognition, fuzzy systems and regression problems, Support vectormachines, Subspace method
Electrical and Control Systems Engineering	Kenichi NISHIJIMA	Assistant Professor	Switching power supply, EMC noise	Investigation of low-noise switching power supplies for compatibility of miniaturization trends of electronic equipment and new EMI standards
Electrical and Control Systems Engineering	Hitoshi NISHIDA	Specially Appointed Professor	Fluid control engineering	Interests: Functional fluids and applications Current research topics: Microprocessing for inner tube walls and complex shape surfaces using magnetic functional fluids

Department of Applied Chemistry and Chemical Engineering

Department	Name	Position	Research Fields	Research Subjects
Applied Chemistry and Chemical Engineering	Takae KAWAI	Professor	Material science (porous materials)	Interests: Development of new methods for evaluation of pores Main techniques: Volumetric adsorption apparatus, Electric furnace (Kanthal) Main target materials: CFI, BEA, MFI
Applied Chemistry and Chemical Engineering	Hiroyuki KAWAFUCHI	Professor	Organic synthesis, Electroorganic synthesis	Studies of <i>O</i> -AcylTEMPOs and their analogues as modified carboxylic derivatives Development of dehalogenation reaction of halogenated aryl compounds using electroorganic method
Applied Chemistry and Chemical Engineering	Michimasa GOTO	Professor	Pharmaceutical chemistry (Organic chemistry)	Interests: Synthetic study of novel biologically active compounds Anti-inflammatory, anti-allergic, and anti-bacterial compounds Investigation of reaction mechanism and development on transesterification reaction <i>via</i> intramolecular cyclization intermediate. Instruments: NMR, HPLC, Cryocool, Vacuum sample drying oven, Water distillation apparatus, Shaking incubator, Centrifuge machine
Applied Chemistry and Chemical Engineering	Masahiko TAKAHIRO	Professor	Polymer materials, Textile engineering	Interests: Analysis of necking properties in drawing processes Polymer monofilaments, Mechanical properties of polymer materials, Mechanical properties of fiber-reinforced plastics Main techniques: DMA, Ultrasonic homogenizer, Tensile tester
Applied Chemistry and Chemical Engineering	Masamoto TAFU	Professor	Environmental Engineering (Eco-materials)	Interests: Development of novel techniques to remove fluoride and heavy metals from environments Recycling system for waste gypsum board Main techniques: ICP-AES, XRD, SEM, Fluoride measurements Main target materials: Calcium phosphates, Gypsum

Department	Name	Position	Research Fields	Research Subjects
Applied Chemistry and Chemical Engineering	Nobuko TSUMORI	Professor	Catalyst (using metal complex)	Development of a new highly efficient environmental catalyst and activity evaluation using a metal nanoparticle and metal-organic framework (MOF)
Applied Chemistry and Chemical Engineering	Yukiko SHINOZAKI	Associate Professor	Applied microbiology	Interests: Isolation and characterization of microbial products Main target materials: enzymes, siderophores (iron chelating compounds).
Applied Chemistry and Chemical Engineering	Eiji NAKAJIMA	Associate Professor	Chemical engineering, Transport phenomena	Interests: Double-diffusive convection in a solar pond system, Freeze concentration of aqueous solution with supersonic radiation Instruments: supersonic radiator, thermo-controlled water bath, digital refractometer, data logger
Applied Chemistry and Chemical Engineering	Atsushi MANAKA	Associate Professor	Analytical chemistry	Interests: Development of simple on-site analysis Main techniques: UV-visible spectrophotometer, pH and ion meter Main target materials: several inorganic cations and anions
Applied Chemistry and Chemical Engineering	Yasumasa MINEMOTO	Associate Professor	Chemical engineering, Food engineering	Interests: Lipid oxidation, Microencapsulation, Freeze-drying, Sorption hysteresis Main techniques: HPLC, GC, TG/DTA, Spectrophotometer Main target materials: Fatty acid, Polysaccharide, Protein
Applied Chemistry and Chemical Engineering	Yasutaka MORI	Associate Professor	Polymer chemistry, Nanocomposite materials	Interests: Green synthesis, nanostructure control, antimicrobial materials Main techniques: UV-vis, TEM, SEM, DSC Main target materials: Polyelectrolytes, metal nanoparticles
Applied Chemistry and Chemical Engineering	Saori TAKAMATSU	Lecturer	Environmental engineering	Interests: Phosphorus recovery from wastewater treatment Main techniques: ICP-AES, XRD, SEM Main target materials: Sewage sludge, phosphorus

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Applied Chemistry and Chemical Engineering	Naomi SAKONO	Assistant Professor	Nanomaterials	Interests: Development of functional nanoparticles Main techniques: Synthesis of nanoparticles in vapor phase Main target materials: Metal nanoparticles
Applied Chemistry and Chemical Engineering	Tomohiro FUKUDA	Assistant Professor	Polymer chemistry (Organic synthesis)	Interests: Polymerization of acryloyl and methacryloyl monomers Main techniques: NMR, HPLC, FT-IR Main target materials: Polymerization of reactive monomer having succinimidyl group, etc.
Applied Chemistry and Chemical Engineering	Masakazu YAMAGISHI	Assistant Professor	Material science (Organic materials for electronics)	Interests: Organic materials with high device performance, unique electronic properties, new physical phenomena, or new functionality Research Fields: Synthetic chemistry, Device engineering, Device physics
Applied Chemistry and Chemical Engineering	Kensei YASUDA	Specially Appointed Professor	Catalyst chemistry	Interests: Reactivity and utilization of halogenated organic compounds Dechlorination, Transchlorination, Solid base catalyst

Department of Electronics and Computer Engineering

Department	Name	Position	Research Fields	Research Subjects
Electronics and Computer Engineering	Tsukasa ASO	Professor	Computing Science	Development of radiation simulation for medical physics, life science, and radiation detection systems Dose map calculation Radiation imaging simulation
Electronics and Computer Engineering	Hiroshi OGUMA	Professor	Information and communications technology	Interests: Wireless network (Mobile, Satellite, WLAN, WPAN), QZSS Main techniques: Wireless technology, measurement, FPGA/ Embedded design
Electronics and Computer Engineering	Toru SHIINA	Professor	Image instrumentation, Electromagnetic wave propagation	Interests: Snowfall measurement system and image measuring algorithm Instruments: Micro Rain Radar, Ceilometer
Electronics and Computer Engineering	Toshiyuki SHINOKAWA	Professor	Information science	Processing of Color Documents Character Recognition of Color Documents
Electronics and Computer Engineering	Akira TSUKADA	Professor	Image processing	Hands-free pointing system for persons with physical disabilities Facial recognition system using motion capture device
Electronics and Computer Engineering	Shoichi FURUYAMA	Professor	Information science	Interests: High-performance computing on GPU, Combination ICT and Environmental issues Techniques: GPU computing (GPGPU), Android, AI, AWS Main target: High-speed Tsunami simulation, Water quality sensor on Android device by AI

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Electronics and Computer Engineering	Iwao MIZUMOTO	Professor	Measurement system (Electronics)	Interests: Development of measurement instrument system Main techniques: Spectroscopy, Low level near-infrared light detection Main target materials: Measurement of singlet oxygen, Weak signal detection system
Electronics and Computer Engineering	Syunsuke AKIGUCHI	Associate Professor	Laser Doppler velocimetry	Measurement of blood flow velocity in a model of stenosis <i>in vitro</i> and in mesenteric vessels <i>in vivo</i> using non-invasive micro multipoint laser Doppler velocimetry Noninvasive in-vivo measurement of microvessels by reflection-type Micro multipoint laser DOPPLER velocimeter
Electronics and Computer Engineering	Yoshikazu HAYASE	Associate Professor	Problem solving environment (PSE)	Interests: Unique functions of an autonomous asynchronous cooperation (AAC) useful for a problem-solving environment (PSE) Techniques: Distributed computing for asynchronous cooperation on a heterogeneous computer and network Main target: Web-based PSE
Electronics and Computer Engineering	Ryuichi MATOBA	Associate Professor	Artificial intelligence, Cognitive science	Interests: Language evolution, and First language acquisition. Especially, I am interested in cognitive biases that help infants to acquire their mother tongue without hindrance. To capture the efficacy of the cognitive biases, I construct computer simulation models.
Electronics and Computer Engineering	Akifumi YAMAGUCHI	Associate Professor	Information technology	Interests: Gesture recognition software development using Kinect and communications between computers and humans
Electronics and Computer Engineering	Yotsumi YOSHII	Associate Professor	Optical engineering	Interests: Trace gas detection using laser spectroscopic methods, air pollution measurements, industrial gas monitoring.

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Electronics and Computer Engineering (Center for Promotion and Advancement of Research)	Nao ITO	Lecturer	Multi-agent simulation, Econometrics	Multi-agent simulation on emergence of another money system Evaluation of the Gini coefficients extended to a case in which the sum of samples is negative
Electronics and Computer Engineering	Hideki KADOMURA	Research Associate	Information technology	Interests: Development of distributed computing platforms in high latency, unreliable network environment
Electronics and Computer Engineering	Junko SHINKAI	Specially Appointed Professor	Educational technology	Development of collaborative learning environment on Moodle Educational effects of blended learning on C programming

Department of International Business

Department	Name	Position	Research Fields	Research Subjects
International Business	Masahiro NISHIHARA	Professor	English education	Interests: Classroom inquiry via a historical approach: English teaching practice during the Meiji Period in relation to its domestic policy on the one hand and transferred Western theories on modern language teaching on the other
International Business	Tetsuya MIYASHIGE	Professor	Corporate strategy management of technology (MOT), Corporate social responsibility (CSR)	Interests: Pharmaceutical R&D performance, analyzing differences in new drug production in firms, business ethics for corporate growth, verifying that companies adopting an ethics program can recruit more excellent researchers and knowledge workers as employees
International Business	Hiroshi HASEGAWA	Professor	Business education, Cooperation with local communities	Interests: Personnel training based on the theory of adult education (andragogy), experiential learning, cooperative learning, and tacit knowledge
International Business	Tsuyoshi EBIHARA	Associate Professor	International relations, China's politics and foreign policy	Interests: China's domestic policy and foreign policy, Japan–China relations (governmental, economic and social relations) International relations in the northeast Asian region after the Cold War
International Business	Katsunori OKAMOTO	Associate Professor	Human geography	Interests: Development of port economy, trade of used cars and used auto parts, trade between Japan and Russia, problems of the conventional railway lines parallel with the <i>Shinkansen</i> line Main techniques: Field work, hearing survey, GIS
International Business	Takeharu KIYOSHI	Associate Professor	Innovation systems of regions	Interests: How competitiveness can be enhanced in global economy, shifting from conventional academia collaboration to next-generation trans-disciplinary collaboration

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International Business	Shingo HAGIWARA	Associate Professor	Computer science	Interests: Formalization of legal knowledge-base, simulated evolution of language on multi-agent systems Main techniques: Intuitionistic logic, iterative learning model Main targets: Legal reasoning, language evolution
International Business	Yoshihiro MATSUBARA	Associate Professor	Labor law, Social security law	Interests: Employment support, employment of people with disabilities, reasonable accommodation for workers, social security for people with disabilities
International Business	Izumi MIYAZAKI	Associate Professor	Russian art history	Interests: Russian religious art, Icon painting from the 18 th to the beginning of the 20 th century
International Business	Masako MURAYAMA	Associate Professor	Marine traffic engineering	Interests: Marine evacuation traffic related to tsunami disasters, system for visualizing ship movement using AIS for collision avoidance
International Business	Kosuke SHIOMI	Lecturer	Management accounting	Interests: Target costing, management accounting change, DSM management accounting
International Business	Ikuhiro NASUNO	Lecturer	Regional management	Interests: Regional activation from perspectives of tourism, transportation, and urban development

Department of Maritime Technology

Department	Name	Position	Research Fields	Research Subjects
Maritime Technology	Masashi KAWAI	Professor	Sea wave disaster prevention, Satellite navigation	Interest 1: Prediction of Swells in Toyama Bay: Yorimawarinami Interest 2: Periodic water level fluctuations in coastal waters Interest 3: Positioning Accuracy of Satellite Navigation Systems
Maritime Technology	Keiji SASAYA	Professor	Maritime law	Interests: Regulation for labor, safety, and sanitation of mariners
Maritime Technology	Shinji TOGA	Professor	Rheology, Complex fluids, Engineering education	Interest 1: Measurement and control of flow and function in complex fluids such as polyelectrolytes and liquid crystal Interest 2: Development of robots for environmental education Regarding Interest 1, an ion concentration conditioning device that we developed can condition the small ion's concentration in fluids reversibly and dynamically by application of voltage. With this device, we can control complex fluid properties. Regarding Interest 2, we are developing various robots for environmental education. Our robotic car and robotic train have easy programming and energy consumption evaluation. Using these robots, students can learn to use energy effectively.
Maritime Technology	Toshihiko NAKATANI	Professor	Control engineering, Control applications in marine systems, Time series analysis	Interests: Ship's autopilot system, Ship motion stabilization, Rudder roll stabilization, Engine governor system,-Time series analysis through auto-regressive model
Maritime Technology	Tomotaka HOMAE	Professor	Explosion safety, Shock compression of solids	Mitigation of damage caused by explosion of high explosives (Blast wave, Fragments) Materials synthesis using hypervelocity impact phenomena

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Maritime Technology (Vice-President of Imizu Campus)	Junnosuke MIZUTANI	Professor	Strength and fracture of materials, Robust quality engineering	Interest 1: Evaluation of metal materials strength using Taguchi Method techniques Interest 2: Application of the Mahalanobis Taguchi (MT) system method to hammering inspection for bolt conclusion
Maritime Technology	Keiichiro YAMAMOTO	Professor	Quality engineering, Mechanical processing	Interests: Find the ideal balance between cost and efficiency. Using Quality engineering (Taguchi Method) of the parameter design, I identify control conditions superior to those in current usage. Main techniques: Parameter design
Maritime Technology	Tomoaki KYODEN	Associate Professor	Mechanical engineering (Thermal science and technology)	Interests: Development of new cooling system using thermoacoustic phenomena, Measurement system of blood flow velocity
Maritime Technology	Shigemi MATSUMURA	Associate Professor	Ship management, Marine engineering, Tug boat	Interests: Ship management, ship repair, engine plant operation, and tug boat consulting
Maritime Technology	Kiichiro MUKOSE	Associate Professor	Marine engineering	Interests: Maritime education using information technology
Maritime Technology	Ken-ichi FUKUDOME	Lecturer	Ocean physics	Research providing synoptic views of ocean currents in coastal and marginal seas conducted mainly by analyzing ship-mounted Acoustic Doppler Current Profiler data
Maritime Technology	Noriko NISHII	Assistant Professor	Maritime traffic law, Maritime education	Interests: Applying and interpreting rules to prevent collision at sea
Maritime Technology	Ryoichi HINOTANI	Assistant Professor	Maritime education	Interests: Education of training ship
Maritime Technology	Keisuke YAMADA	Assistant Professor	Combustion engineering	Interests: Internal combustion engine, Fuel droplet combustion, Emulsified fuel, Short-time minute gravity experiment

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Maritime Technology	Makoto NOMURA	Commission Assistant Professor	Maritime engine	Interests: Engine operating management, vessel maintenance management
Maritime Technology	Hideya NAKAMATSU	Captain (WAKASHIO MARU) Associate Professor	Maritime education	Interests: Education using training ships
Maritime Technology	Naohiro YAMATANI	Chief Engineer (WAKASHIO MARU) Associate Professor	Combustion engineering, Maritime education	Interests: Marine diesel engine, Fuel injection pressures and fuel spraying quantity
Maritime Technology	Emi KANAYAMA	Chief Officer (WAKASHIO MARU) Assistant Professor	Maritime education	Interests: Education of Training Ship

Department of General Education (Hongo Campus)

Department	Name	Position	Research Fields	Research Subjects
Faculty of Liberal Arts & Science	Hitoshi YAMAKOSHI	Professor	Elementary particle physics, Mathematical physics	Interests: Field theory, Soliton, Topology
Faculty of Liberal Arts & Science	Yasufumi MORITA	Associate Professor	Natural products chemistry	Interests: Chemical components of Basidiomycetes, mycorrhizal fungi Main techniques: NMR, IR Main target materials: Terpenoids, Sterols, Phenylpropanoids
Faculty of Liberal Arts & Science	Masahiro KASATANI	Lecturer	Mathematics, Mathematics education	Interest 1: Macdonald polynomials, Koornwinder polynomials, (double) affine Hecke algebras, quantum Knizhnik–Zamolodchikov equations Interest 2: Proofs without words

Department of General Education (Imizu Campus)

Department	Name	Position	Research Fields	Research Subjects
Faculty of Liberal Arts and Sciences	Akemi HOSHINO	Professor	Chinese speech recognition, Chinese utterance analysis	Development of pronunciation education systems for Chinese using IT technology Development of pronunciation training systems for Chinese using CAI Automatic judgment system for Chinese retroflex and dental affricates pronounced by Japanese students Pronunciation training system of Chinese aspiration for Japanese students
Faculty of Liberal Arts and Sciences	Yukiko OHTAKE	Associate Professor	High energy physics	Interests: Field theory, String theory
Faculty of Liberal Arts and Sciences	Charlton B. MOANANU	Associate Professor	English for international communication	Developing motivational strategies for English communication Use of Task-based projects to enhance communication Using contrastive and error analysis to analyze syntax errors in writing Reading and writing correlation analysis
Faculty of Liberal Arts and Sciences	Hiroto YAMAMURA	Lecturer	English language teaching	Creating a communicative classroom in EFL contexts Evaluation and development of ELT materials Professional development for EFL teachers