

Information of the Researchers

Main Research Themes

2017

Graduate School of Environmental Engineering and
Graduate School of Environmental Engineering, The University of Kitakyushu
Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology
Graduate School of Information, Production and Systems, Waseda University
Fukuoka University Graduate School of Engineering
Fukuoka Research commercialization Center for Recycling Systems

KITAKYUSHU SCIENCE AND RESEARCH PARK

You can see researchers information with "the Kitakyushu Science and Research Park researchers information search system" by input of professional affiliation or name.

The access site is as follows,

http://fais.ksrp.or.jp/05kenkyusha/srch_e.asp



Faculty of Environmental Engineering and Graduate School of Environmental Engineering, The University of Kitakyushu TEL +81-93/695-3310 U R L http://www.kitakyu-u.ac.jp/env/ FAX +81-93/695-3368 E-mail admin-sec@kitakyu-u.ac.jp



4X +81-93/		E-mail admin-sec@kitakyu-u.ac.jp
Position	Name	Main Theme of Study
		rironmental Engineering
Chemical Pro	1	
Professor	Kenji Asami	Development of Novel Processes for the Production of Synthetic Clean Fuels and their Utilization
Professor	Xiao-Hong Li	Woody biomass to syngas at lower temperature 2. The synthesis of super clean diesel fuel (Fischer-Tropsch synthesis) The synthesis of gasoline 4. The synthesis of LPG 5. Eggshell catalyst
Professor	Kazuharu Yoshizuka	Lithium recovery from various resources 2. Recycle system of rare metals from various wastes Removal system of arsenic and boron from various underground waters
Professor	Syouhei Nishihama	Separation and recovery process of rare metals from waste materials. Removal process of toxic compounds in water environment.
Associate Professor	Fumiaki Amano	Development of semiconductor photocatalysts and photoelectrodes with high efficiency Precise control of crystalline morphology and alignment of metal oxides Development of systems for photochemical conversion and storage of solar light energy
Advanced M	aterials	
Professor	Isamu Akiba	1. Synthesis, Properties and Structures of Organic Polymers 2. Mesomorphic Phase Formation of Multicomponent Polymer Material
Professor	Seung-Woo Lee	1. Nano-structured materials 2. Fabrication and application of chemical sensors 3. Analysis of disease odors
Professor	Katsutoshi Yamamoto	Synthesis and application of new structures of porous materials Development of new synthesis routes for porous materials 3. Development of catalysts for bio-fuel synthesis
Associate Professor	Takuya Suzuki	Development of nobel oxide photo catalyst Development of oxide semigonductors thin film and application for solar cell
Associate Professor	Hiroyuki Imai	Development of novel catalysts for application to catalytic reaction processes Synthesis and functionalization of porous materials as a solid catalyst in processes of effective utilization of petrolium resource and production of chemicals from non-petrolium resources.
Environmenta	al Processes	
Professor	You Ito	1. Remediation of soil contamination 2. Monitoring on CO ₂ geological storage 3. Application technology of solar heat storage system
Professor	Hitoshi Ohya	Development of recycling technology and its system design
Professor	Hidenari Yasui	1. Activated Sludge Population Dynamics 2. Anaerobic Digestion 3. Nutrient Removal and Recovery 4. Pretreatment of Industrial Wastewaters
Professor	Masahide Aikawa	Atmospheric Science(Acid Deposition (Acid Rain, Acid Fog), Air Pollution(Gaseous compounds, Particulate matter))
Associate Professor	Mitsuharu Terashima	Hydrodynamics in waste water treatment plant 2. Precipitation of inorganics and bio-fauling in water system
partment of	Mechanical Syster	ms Engineering
Energy Syste	ms	
Professor	Masaaki Izumi	Study on Improvement of Performance and Endurance of Solid Oxide Fuel Cells Study on Diagnostics of Fuel Cell Performance 3. Study on Gas Transfer in Fuel Cells
Professor	Yoshiaki Miyazato	Measurements of Shock Train Oscillations by High-Speed Mach-Zehnder Inteferograms Three-Dimensional Density Measurements in Supersonic Jets Using Tomographic Rainbow Schlieren RANS Simulations of Pseudo-Shock Waves in Scramjet Engines
Professor	Sadami Yoshiyama	Development of Combustion Diagnostics Method for Production SI Engine Using Ion Sensor Measurement and Modeling of Turbulent Premixed Flame in Internal Combustion Engine Development of Waste Heat Recovery System for Reciprocting Internal Combustion Engines
Professor	Koichi Inoue	1. Electronics cooling 2. Condensation heat transfer on a large tube bank 3. Heat spreader 4. Internal natural convection
Associate Professor	Daisuke Ono	Study on subsonic flow around a two-dimensional airfoil Quantitative visualization of compressible flows using Mach-Zehnder interferometer
Associate Professor	Shinichirou Nakao	Research on applying non-contact measurement techniques to compressible flow fields. Research on methods to soup up small size wind turbines.
	Nanufacturing Syste	[14 10] 2 2 2 2 2 2 2 2 2 2
Professor	Takanori Kiyota	Study on Mechanical System Control Method based on Inherently Safe Design Study on Safe and High-Performance Control of Pneumatic Systems 3. Development and Application of Power Assist Systems
Professor	Nobuhiro Okada	1. 3D visual measurement 2. Robotics 3. System engineering
Associate Professor	Takumi Sasaki	Development of Nonlinear Vibration Isolator 2. Development of Vibration Analysis Method for Large Scale Systems Development of Vibration Control Device using MR Fluid
Associate Professor	Changhee Cho	Study on the Wear of Ultra-High Molecular Weight Polyethylene for Artificial Joints
Associate Professor	Hiroshi Murakami	Development of a System for 3-D Micro Metrology Using an Optical Fiber Probe 2. Study on an intelligent machine tool Development of a high-speed air turbine microspindle for monitoring machining processes
Associate Professor	Hiroki Cho	Research for performance improvement of shape memory alloy Research and development of actuator and medical equipment using shape memory alloy Research and development of the heat-engine using shape memory alloy.
Lecturer	Takeshi Miyaguni	1. Research on condition monitoring system of machine tools. 2. Experimental study of cutting forces in turning process.
partment of	Information and A	Aedia Engineering
Communicat	ions and Media Pro	ocessing
Executive Director, Vice-president, Professor	Akihiro Kajiwara	1. Radio communication systems 2. Microwave/Millimeter wave propagation 3. Radar 4. UWB
Professor	Satoshi Uehara	Sequence design for communications applications
Professor	Masayuki Sato	Psychophysics on human visual perception, especially on depth perception and visual stability during eye movements
Professor	Masahiro Okuda	Multimedia Processing, Signal Processing
Professor	Takashi Satoh	1. Information security 2. Future communication networks
Associate Professor	Yasushi Yamazaki	Biometrics 2. Information security 3. Pattern recognition
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Professor Hiroatsu Fukuda 3. High-Rise Residences *A. Urban Environment, Urban Design, Compact City 5. New construction methodes of Japanese ceder. 6. Histrical Architecture Professor Bart Julien 1. Research on urban planning and citizen involvement in urban planning green buildings Professor Takao Akagawa 1. Architectural Design 2. Urban Design 3. Urban Planning Associate Professor Noriko Okamoto 3. Prediction of sound field in rooms 2. Measurement of acoustic properties of materials Department of Life and Environment Engineering Life Science & Biomaterials Professor Kazuo Sakurai 1. Polymer Physics 2. Biopolymer 3. Biochemistry Professor Kazuya Uezu 1. Biosensors utilizing the structures and functions of living organisms 2. Biomaterials for capturing the intracellular mess 3. Design of functional materials with computational chemistry 4. Environmentally-friendly firefighting foam for forest fire Professor Kohji Nakazawa 1. Development of cell array 2. Development of sensing technology of cell functions 3. Study of tissue engineering using cults 1. Development of a new bio sensor and the application, 1: Cancer tests, 2: Salivary diagnosis, 3: Food freshness assess Bio-lot (bio sensor network) Professor Akira Haraguchi 1. Study on physiological study on aquatic plants and their function on environmental protection 3. Chemical process of limnological ecosystems with special reference to redox reaction and decomposition of organic Professor Hiroshi Morita 1. Study on physiological function of IGUSA; 2. Bio-control science of mold spores and mites; 3. Study on novel co-culture Koji for Sake brewing; 4. Development of submerged culture system for brewing 1. Plant Biology and Microbiology 2. Cell Signaling 3. Redox biochemistry 4. Environmental Science and Technology	
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Professor Kawano 5. Metal eco-toxicity 6. Biosensing and microbiorobotics 7. Fire-tighting technologies and bioengineering	
Associate Professor Takanori Kihara 8. Science history 9. Blood biology and biochemistry 10. Fish bioengineering 1. Biomineralization in our body 2. Phenotypic regulation of smooth muscle cells 3. Tissue formation with stem cells	stem cells
Associate Professor Yanagawa Microbial distribution, community composition and biogeochemical cycles in the geobiosphere including extreme environment of the professor of the professor and professor of the prof	xtreme environment.

Environmenta	Environmental Management		
Professor	Tohru Futawatari	Regional environmental management	
Professor	Atsushi Nogami	Computer simulation for environmental assessment 2. Development of atmospheric microparticles sensing system	
Professor	Toru Matsumoto	Sound material-cycle society and industrial symbiosis 2. Urban environmental management in Asia Servicing as sustainable business models 4. Environmentally conscious life style	
Professor	Takaaki Kato	1. Economic evaluation of environmental and energy policy 2. Evaluation and management of risk	

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Position	Name	Main Theme of Study
Specially Appointed Professor	Kiwao Kadokami	Development of automated identification and quantification system using database (AIQS) for GC-MS and LC-MS Development of analytical methods for micro-pollutants Environmental survey on micro-pollutants and risk evaluation
Professor	Tsuruo Matsuda	Biomedeical Eng., and so on. Magnetic and Electrical stimulation of the Human Brain, peripheral nervas system and Blood flow system.
Professor	Masaaki Nagahara	My research interests are fundamental theory of automatic control and artificial intelligence, and their applications to vehicles, drones, power systems, and acoustics.
Professor	Kyozo Kanamoto	Research on characterization, improvement and monitoring in reliability of power electronics modules. Research on cooling technology for power electronics modules.
Associate Professor	Shinichi Mochizuki	1. Biopolymer 2. Biomaterial 3. Immunotherapy

Center for Fundamental Education, Hibikino Campus The University of Kitakyushu

Position	Name	Main Theme of Study
English Education		
Professor	Tetsuya Kashiwagi	Learner Corpus Compilation and Analysis for Pedagogical Application in Mitigating L1 Interference Grammar Teaching as a Clue to Output Pedagogy 3. Contrastive Rhetoric Study in Variation and Context
Associate Professor	Kiyomi Okamoto	Extensive reading 2. English teaching at companies 3. Development of instructiona models 4. e-learning 5. Corpus linguistics 6. Vocabulary acquisition 7. English for specific purposes
Associate Professor	Masanobu Ueda	A quantitative and qualitive analysis of verb semantics and construtions
Associate Professor	Eiichiro Tsutsui	English education 2. EFL with information and communication technology Creating web apps for Japanese learners of English 4. Analyzing computer-mediated communication data
Associate Professor	Roger J.A. Prior	Translation studies, particularly the potential for translating jokes and humour
Associate Professor	Crescini, Anne Marie	1. Research on the Effectiveness of Using Study Abroad as One Way to Improve Language Ability and Increase Cultural Awareness 2. Research on the Relationship between Foreign loanwords and the English Pronunciation of Native Japanese Speakers
Lecturer	Naoki Kiyama	Multi-factorial analysis on the English Quotative Constructions
Japanese Education		
Professor	Ryusuke Ikeda	Japanese for Specific Purpose 2. Analysis of The Features of Language Adjustment of Japanese Native Speakers Development of Learning Resouses for International Students Majoring in Environmental Engineering Research on Academic Writing Education in Japanese
Liberal Arts		
Professor	Tsukasa Morimoto	Philosophy of Life (Hermeneutics, Evolutionary Epistemology, Problem-Solving Thinking) Environmental Ethics
Associate Professor	Hiroyuki Tsujii	Management for Sustainability 1. Corporate Environmental Management 2. Engineering Ethics Education 3. Business Education
Associate Professor	Miyuki Nakaoka	I am engaged in a comparative study of urban mechanisms and urban structures in Asian countries, focusing especially on China. I am also interested in the differences between the Japanese economy during its rapid growth period and the present Chinese economy.

Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology TEL +81-93/695-6000 UR L http://www.lsse.kyutech.ac.jp/FAX +81-93/695-6008 E-mail sei-soumu@jimu.kyutech.ac.jp



Position	Name	Main Theme of Study
Department of	Biological Functio	ons Engineering
Green Electro	onics	
Dean, Professor	Tsuyoshi Hanamoto	Development of human-friendly and environmentally friendly electrical power conversion systems and application for motor control systems.
Executive Director, Vice-president, Professor	Shuji Hayase	Printable solar cells, perovskite solar cells, dye sensitized solar cells, hybrid solat cells, Photo voltaic cells, small fuel cells and application of organic material to electronics
Professor	Ichiro OMURA	Development of ultimate power semiconductor devices aimed at achieving extreme energy conservation, development of integrated power electronics to realize micro-miniaturization, development of real-time monitoring technology to detect failure causes of power semiconductor devices, and research of power electronics control and its integration with the digital network.
Professor	Tingli Ma	1. Development of functional nano materials 2. Organic and inorganic molecular devices 3. Fuel Cell 4. Na and Li ion battery 5. Supercapacitor
Associate Professor	PANDEY Shyam Sdhir	Dye-sensitized solar cells, bulk heterojunction, organic sensitizer, organic electronics, Soft-Actuator and Biosensor
Associate Professor	Seiya Abe	Development of circuit and control technology for switch mode power supply
Assistant Professor	Kazunori Hasegawa	Research on highly-integrated and reliable power electronic converters
Assistant Professor	Yuuhei Ogomi	Printable Functional Materials and Energy devices

Research Assistant Professor	Teresa Ripolles- Sanchis	Investigation and preparation of third generation photovoltaics cells
Biological Me	echanics	
Professor	Hiroshi Ishiguro	Biothermal engineering and biothermal technology 2. Biomedical engineering 3. Investigation and application of bioheat and mass transfer in living systems (Biotransport) 4. Measurement, Mathematical modeling, Design of process and device
Professor	Masaaki Tamagawa	Drug Delivery Systems by Shock Waves 2. Bioprocess by Shock Waves Prediction of Haemolysis and Thrombus in Blood Pumps 4. Application to tissue engineering by shock waves Development of shock wave generator 6. Multi-fractal analysis for branch flow of blood pipe using medical image data Water Treatment Systems by shock waves and cavitation flows
Professor	Takashi Yasuda	 Cell stimulation devices for regenerative medicine and drug discovery Microliquid handling using wettability control of device surfaces 3. Blood plasma extraction devices for point-of-care testing Electrochemical bio-sensing for medical diagnosis 5. Derivation and separation of liposomes from human cells Nanowire formation using DNA metallization
Professor	Hiroshi Yamada	Mechanical evaulation of human vascular diseases and its application to medical treatment Experimenal and numerical studies to delay pressure ulcers, mechanical evaluation of pressure redistribution mattresses Computer simulation to improve the tooth repair technique
Professor	Toshiki Miyazaki	Development of functional biomaterials for tissue repairing
Associate Professor	Kazuto Takashima	Development of soft tactile sensor 2. Development of device placement simulator for endovascular treatment Applications of shape-memory polymer and artificial muscle to human-interactive robot
Associate Professor	Satoshi likubo	Development of the calculation techniques for the materials design 2. Hydrogen diffusion behavior in the steal 3. Battery materials (solid electrolyte, electrode) 4. Provskite solar cell
Associate Professor	KAWAHARA Tomohiro	Ultra-High-Speed Robotics and Its Biomedical Applications
		I mistry and Bioengineering
Professor	Yoshihito Shirai	Development of rural area by recylcing of not used materials and energy and resulting in yeilding useful human esources Zero discharge from Malaysia palm oil industry and creation of green industries by using excess biomass
Professor	Haruo Nishida	Eero discharge from Malaysia paint of industry and creation of green industries by using excess biomass I. Biomass/plastic composites 2. Circulative utilization of renewable materials 3. Kinetic analysis using computer simulation methods 4. Chemical recycling of Biomass-basedpolymers 5. Precise surface modification by vapor-phase assisted surface living polymerization
Professor	Tetsuya Haruyama	Our research activities in a consistent manner, from basic research to applied research, in order to design and create various functional (molecular functionalized) interfaces which can recognize molecules and convert them into information (signals) or energy. Basic research and practical applied research has been developed in parallel. Typical examples of our studies are briefly shown in WEB page. In detail, see <a "="" haruyama="" href="http://www.life.kyutech.ac.jp/">http://www.life.kyutech.ac.jp/"haruyama/
Associate Professor	Tamaki Kato	Study on the functioning structures of biopolymers and the building superstructures
Associate Professor	Minato Wakisaka	Sustainable Utilization of Biomass
Associate Professor	Toshinari MAEDA	Microbial biodegradation of environmental pollutants 2. Bioenergy production and low-carbon technology by bacteria Reduction and recycling of excess sludge to construct environmentally-friendly technology Probiotics for periodontal pathogens 5. New anti-microbial technologies by lytic bacteria
Associate Professor	Shinya Ikeno	Bioassay by using functinal gold nanoparticles 2. Spore detection using nanoparticles to enhance the Raman signal Boost protein expression system by co-expression of functional peptide
Research Associate Professor	Yoshito Ando	Fabrication of functional materials through up-graded recycle of biomass and waste materials aiming to be sustaibable materials society 1. Development of sutainable bioplastics 2. Nano-fibrication of unutilized agriculural wastes 3. Developments of high-performanced fuctional material made form biomass/industrial waste 4. Functional materialized biomass and industrial waste through surface modification
Physiological	and Biochemical A	Adaptation
Professor	Koji Hirakoba	Estimation for muscle metabolism and buffering capacity during muscle contractions Effects of internal and external work on muscular efficiency during exercise Development of health-related fitness from oxygen uptake kinetics during constant-load exercise. Analyses of hierarchical order of muscle fibers during exercise from EMG and NIRS
Associate Professor	Shokichi Ohuchi	Bioorganic Chemistry 2. Protein Engineering 3. Bioinformatics and Chemoinformatics Microwave Assisted Chemistry
Associate Professor	Naoya Murakami	Development of photo-functional nanomaterials for photocatalyst and photovoltaic cell Spectroscopic analysis for elucidation of photoreaction mechanism over semiconductors
Green Techn]
Visiting Professor	Iwao Sasaki	Research on the optimization of the control mechanisms for mechatronics systems and human-friendly supporting devices.
Visiting Professor	Hideki Honda	Realization of high-performance Mechatronics control system.
Visiting Professor	Toru KATO	Development of the electrochemical energy devices such as the solid oxide fuel cells (SOFC), the high temperature steam electrolysis cells (HTSE). Study of evaluation and the simulation techniques for the electrochemical energy devices and systems.
Pro Active M	aintenance	
Visiting Professor	Toshio Anzai	Microbe corrosion of metal materials and Creation of antibacterial metal materials
Research Professor	Kouichi Nakano	Physical properties of metal matrix FGM 2. Static tensile and fatigue properties of Cu/Mo composite materials Mechanical properties, corrosion resistance and cytocompatibility of tungsten short fiber reinforced Ti-6Al-4V alloy Fatigue properties of fillet welded joints in piping system Sevaluation of diffusion bonding strength between molybdenum and cupper 6. Study on microbially influenced corrosion
Collaborative	Research	
Research Professor	Hiroshi KANATA	Characterization and control of defect state of semiconductor wafers for the power devices. Research and development are made for new technique and apparatus to evaluate the bulk lifetime of the free carrier in the wafer. Development of a novel method for lifetime measurement is now in progress based on the original dual-laser-beam technique.
Department of	Human Intelligenc	ce Systems
Human Intell	igence and Machin	
Professor	Takashi Morie	VLSI design for brain-like computers and its application to image recognition systems Information processing circuits using nanostructures
Professor	Kazuo Ishii	1. Robotics 2. Intelligent Mobile Robot 3. Control System based on Neural Network

Professor	Hirofumi Tanaka	Fabrication of artificial retina using photo-assisted atomic switch showing synaptic behavior Brain signal reproducing using nanocarbon network devices 3. Single-molecular electric properties for molecular architectonics Haptic sensor for robot and artificial skin
Professor	Chikamune Wada	Research on human characteristics in order to develop assistive devices for the disabled Application of the results to human interface, virtual reality and robotics
Associate Professor	Hiroyuki Miyamoto	Generation of arm movement trajectory based on minimization principle, Robot learning by watching
Associate Professor	Hakaru Tamukoh	A brain-like computer system laboratory aims to realize a brain-like computer and its application to human-friendly systems. We integrate state-of-the-art devices, such as field programmable gate arrays, many-core central processing units, and Internet, to achieve high performance, low-power consumption, and flexible processing. To enable a brain-like computer, we integrate it with an artificial model of learning and growing structures. Furthermore, we widely apply the brain-like computer to an autonomous robot for supporting daily life and a human-friendly interface system including intelligent image processing and recognition.
Research Associate Professor	Takashi Sonoda	Development of Robot Practical Techniques for Analyzing and Solving Problems Design and analysis for robot mechanisms
Intelligence S	Systems and Emerg	ent Design
Professor	Tetsuo Furukawa	Multi-perspective big data analysis and visualization methods. Learning theory of finding out essence from experiences for brain-like intelligence. Developoing brain-like artificial intelligence which learns oneself through interaction with others. Theoretical study on statistical learning, manifold learning.
Professor	Tomohiro Shibata	Understanding humans and societies from the viewpoint of learning/adaptive system. Development and social innovation of assistive systems adaptive to individuals and societies. 1. Motor Skill Transfer to Robots and its Application to Assistive Robots 2. Adaptive Assistance of Human Motor Learning and Its Application to Assistive Rehabilitation Systems 3. Rapid Prototyping and its Application to In-home Nursinng Caring Innovation 4. Understanding the Purchase Decision-Making Process and Its Application to Marketing
Associate Professor	Keiichi Horio	Intelligent Information Processing Inspired by Human Expert and its Application to 1. Analysis of Relational Data, 2. Image Processing, 3. Optimization Problem
Associate Professor	Hiroaki Wagatsuma	Bio-medical signal processing, efficient sparse coding and the applications 2. Artificial intelligence, system design, rehabilitation supports inspired from non-linear dynamics in the brain-body-environment coordination Sport dynamics and synergy analysis based on mathematical methods focusing on the non-linearity Computational neuroscience based on theta phase coding and brain-inspired robotics
Associate Professor	Kaori Yoshida	1. Human-Computer Interaction 2. Kansei Information Processing 3. Visual Perception
Lecture	Eiichi Inohira	Control of a myoelectric arm prosthesis for supporting two-handed tasks Acquisition and teaching of new actions of an autonomous robot via human-robot communication
Assistant Professor	Hiroshi Sho	Dynamic model selection based on evolutionary computation 2. Data interpretation by inverse optimization Technical development for multi-objective optimization 4. Pattern analysis
Human Intera	action and Brain Fu	nctions
Professor	Kiyohisa Natsume	1. Electrophysiological and computer simulation studies on the role of brain rhythm or neuronal oscillation in the information processing 2. Glial [Ca²¹]i oscillation and wave 3. Brain Simulator 4. E-learning system for English rhythm using Brain Computer Interface.
Professor	Doosub JAHNG	Occupational Health Marketing, Health Resources Management, Team Management, Communication
Associate Professor	Katsumi Tateno	Neurodynamics 2. Chemical sensor array inspired by mouse taste buds
Associate Professor	Yoshitaka Otsubo	Research for taste transduction mechanisms
Human Beha	vioral Sciences	
Associate Professor	Hirohisa Isogai	Mechanisms of human motor behavior
Human Tech	nology	
Visiting Associate Professor	Makoto Kato	Processing of visual information and eye movement control in human brain
Visiting Professor	Satoru Miyauchi	Non-invasive measurements of human brain activity, Psychophysiology
Visiting Professor	Hiroshi NAKAJIMA	Research and development on algorithms of intelligent systems by studying soft computing, statistical analysis, and social intelligence in human-machine collaboration with application studies.
Visiting Professor	Takayuki MATSUO	1. Biomimetic robot 2. Embedded system

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Position	Name	Main Theme of Study
Professor	Yasushi Sato	Controlling of Device Installed Artificial Intelligence 2. Sound Compression and Noise Removal by Sound Signal Process Noise Removal by Array microphone 4. High Quality Sound and Lossless Compression by Sound Signal Process Interface by Dialogue System 6. High Quality image and Search System by image Processing Technology Development of Microwave Parts Using Dielectric

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X +81-93/	692-5021	e-mail gsips@iist.waseda.jp
Position	Name	Main Theme of Study
ormation Arc	hitecture Field	
Professor	Shigeru Fujimura	1. Production Planning and Scheduling 2. Production Management 3. Project Management 4. Business Process Modeling
Professor	Jinglu HU	Neurocomputing Systems and their Applications to Identification and Control of Nonlinear Systems
Professor	Mizuho Iwaihara	1. Database Query Processing 2. Web Information Systems 3. Web Mining 4. XML Document Processing 5. Security and Privac
Professor	Seiichiro Kamata	1. Image Processing 2. Pattern Recognition and Computer Vision 3. Applications of Space-filling curves 4. Image & Video Retriev 5. Visual Information Processing
Professor	Keiichi Koyanagi	For studying 'Thinking Networks', we develop 'Bottom-up Intelligent Networks', 'Streaming Grid Computing' and 'Global IP Netwo Management'
Professor	LEPAGE, Yves	Natural language processing 2. Artificial intelligence 3. Information theory 4. Example-based and statistical machine translatic 5. Study of analogy and application to morphology, syntax and semantics 6. Use of analogy in machine translation and paraphrasing 7. Multilingual word alignement
Professor	Takafumi MATSUMARU	Bio-Robotics & Human-Mechatronics 1. Remote Operation System of Mobile Robot 2. Preliminary Announcement of Mobile Robot's Intention 3. Form and Movement of Human Synergetic Robot 4. Interaction with Human Symbiotic Robot 5. Measurement and Analysis of Human Motion and Behavior 6. Systematic Learning on Mechatronics
Professor	Makoto Tsubokawa	Optical network architecture (Survivable network architecture, Maintenance techniques, Transmission systems) Sensing technologies (Fiber-optic sensors, Optical measurement techniques) Optical waveguide design (Optical fiber textile, Light concentrator, Nano waveguide devices)
Dean, Professor	Osamu Yoshie	Global machine diagnosis service using the Internet technologies 2. Environmental Information Processing In Global machine diagnosis service using the Internet technologies 2. Environmental Information Processing
Professor	Jiro Tanaka	1. Fusion of the real world and the virtual world 2. Augmented reality 3. Ubiquitous computing 4. Remote communication support
Assistant Professor	Wei, WENG	Planning and logistics; scheduling and production control; operations research; job shop and flow shop problems; just-in-time produciton; multi-agent systems; cellular manufacturing; green production; refinery scheduling
oduction Syst	ems Field	production, mata agent systems, ectatal manufacturing, green production, refinely scheduling
Professor	Hiroshi Inujima	Plant diagnosis technologies
Professor	Hee-Hyol Lee	1. Development of Binary Power Generation Plant 2. Bayesian Network and Production & Inventory Control 3. Cellular Automaton and Traffic Flow Modeling 4. Traffic Signal Control 5. Cooperative Action Learning of Carrier Robot Swar 6. Design of Decoupling Control System for MIMO Large-Scale Systems 7. Design of Sliding Mode Control System and Its Applications to Servo-Systems and Process Systems 8. Intelligent Control 9. Stochastic Control
Professor	Tomohiro Murata	Research on modeling, analysis and synthesis of Discrete Event Systems and its application for design
Professor	Harutoshi Ogai	1. Seel process modeling, Simulator building and Control system design 2. Operation prediction and Control of Waste combust 3. Microorganism application for environment control 4. Automobile Engine Control, Autonomous Driving Control 5. Bridge diagnosis technique using sensor network 6. Office lighting control using sensor network 7. Pope inspection robot using wireless communication 8. Modeling of labor fatigue and Medical Imformation Processing
Professor	Eiichiro Tanaka	Automatic Remote Diagnosis of Gear Driving System Using a Small Laser Sensor Development of a Walking Assistance Device for Gait Training of Patients and Promotion Exercise of the Elderly Development of Various Assistance Devices for ADL, lifting up and standing up, etc.
Professor	Kohei Tatsumi	Semiconductor Packaging Materials and Technologies 2. Electronics Materials Microstructure in Crystalline Materials 4. Marerials and technologies for energy and environment field
Associate Professor	Takeo Miyake	Smart contact lens using integrated circuits 2. Wearable biofuel cell using enzyme catalysts H+-mediated control of biofunction with electrochemical pH modulation 4. DDS system with nanostraw membrane
Associate Professor	Shigeyuki Tateno	Development of fault detection and diagnosis systems for chemical plants Estimation of Corrosion Rates for Corrosion Under Insulation in Petrochemical Plants Wireless Communication support system for rescue actions 4. Development of on-demaid PC BTO systems
Professor	Masahide Inuishi	Power electronics (Conversion circuit) Power semiconductor devices ① Structure design and process ② Reliability study Modeling of advanced power devices for circuit simulation
Professor	Koichi Shimizu	Biomedical application of optical techniques: 1. Tranillumination imaging of animal body (Optical scattering analysis, Optical trans-body imaging, Optical CT, etc.), 2. Optical noninvasive measurement of physiological information in vivo, 3. Remote measurement and transmission of biomedical data (Optical biotelemetry, Optical body-area-network, etc.)
Assistant Professor	Tomonori lizuka	Nano/Micro-Composite Insulator Materials for Electronics Device Packaging Voltage Endurance Improvement and High Thermal Conductivity Characteristics by Nano/Micro-composite Technologies
egrated Syste	ems Field	
Professor	Takaaki Baba	Intelligent Mobile System and its Application
Professor	Takeshi Ikenaga	Video compression, video filter and video recognition systems
Professor	Shinji Kimura	High Level System LSI Design and Verification, Design for Testability
Professor	Hirofumi Shinohara	Hardware security 2. Neuro information processing 3. Energy Efficient circuits and systems
Professor	Takahiro Watanabe	1. Physical Design Automation for ASIC/PCB 2. Network-on-Chip Architecture and Routing 3. Online-Task-Placement Problem for Reconfigurable Devices 4. Processor Design
Professor	Noriyoshi Yamauchi	Wearable Body Sensor Network (WBSN)
Professor	Toshihiko Yoshimasu	1. RF IC circuit design methodologies such as power amplifiers, VCOs, filters, and so on 2. RF transistor modeling for SiGe HBTs, Si CMOS, and so on
Professor	Takeshi Yoshimura	Design Automation for System LSI Optimization Technologies using Graph and Network Algorithms
Associate Professor	Kiyoto Takahata	Integration of optical devices and LSIs 1. Opto-electronic integrated circuits 2. High-speed optical transmitter/receiver modules 3. Photonic microwave/millimeter-wave devices
Professor	Takashi OHSAWA	Novel memory systems 1. Single transistor memory 2. Nonvolatile working memories, 3. Distributed memory architecture 4. Cognitive computers
Assistant	Kosuke	Communication system for the next generation
Professor	KATAYAMA	1. Analysis of radio propagation 2. Design automation of MMIC 3. Theory of multiple communication

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Position	Name	Main Theme of Study
Senior Researcher	Masakazu Inagaki	Semiconductor interconnection technology development by use of electroplating and electroless method Advanced semiconductor packaging technology development 3. Reliability improvement of SiC power device Microplating technology development
Junior Researcher	Kenjiro Sugimoto	Image processing and pattern recognition based on fast and accurate digital filtering algorithms
Research Associate	Weite LI	Research on deep learning related pattern recognition and information theory
Research Associate	Wa SI	Real-time Model-based Lighting Control by Improved PSO and Lambertian-RBFNN
Research Associate	Shin-nyeong HEO	1. Path Planning and Position Estimation of Moving Object 2. on Partially-known Environment 2. Path Plannning and Automatic Returining algorithm development of unknown environment
Research Associate	Xun PAN	application of computer vision in autonomous driving(road detection and white line detection)
Research Associate	Xina CHENG	Multi-view Videos based Automatic Data Extraction and Analysis

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	Position	Name	Main Theme of Study	
Re	Recycling and Eco-Technology			
	Professor	Sotaro Higuchi	Municipal Solid Waste Management System	
	Professor	Yasuo YANAGIBASHI	Water Supply System, Odor Measurement	

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Main Theme of Study

- ♦ Research and development function
- Studies improving social system concerning waste disposal, such as separate collection, recycling technology, are carried out synthetically by cooperating with industries, governments, universities, and citizens.
- \Diamond Practice support function
- Regional development and making the result of the research achieved by a joint research are supported. Environmental information function
- Information on recycling technology and the social system are sent, and the measure of related each subject for the construction of the recycling society is supported.

