

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



X +81-93/6		E-mail admin-sec@kitakyu-u.ac.jp
Position	Name	Main Theme of Study
		ironmental Engineering
Chemical Pro		
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 Ma	aterials	3 3 3
Professor	Isamu Akiba	1. Synthesis, Properties and Structures of Organic Polymers 2. Mesomorphic Phase Formation of Multicomponent Polymer Mater
Professor	Seung-Woo Lee	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 Development of new synthesis routes for porous materials
Associate Professor	Takuya Suzuki	Development of nobel oxide photo catalyst
Associate Professor	Hiroyuki Imai	2. Development of oxide semiqonductors thin film and application for solar cell 1. Development of novel catalysts for application to catalytic reaction processes 2. Synthesis and functionalization of porous materials as a solid catalyst in processes of effective utilization of period materials as a solid catalyst.
Environmenta	l Processos	and production of chemicals from non-petrolium resources
Professor	You Ito	1 Pamodiation of call contamination 2 Manitoring on CO goological storage 2 Application technology of calculations
		1. Remediation of soil contamination 2. Monitoring on CO ₂ geological storage 3. Application technology of solar heat storage sys
Professor Professor	Hitoshi Ohya Hidenari Yasui	Development of recycling technology and its system design 1. Activated Sludge Population Dynamics 2. Anaerobic Digestion 3. Nutrient Removal and Recovery
D (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	1. Hydrodynamics in waste water treatment plant 2. Precipitation of inorganics and bio-fauling in water system
	Mechanical Syster	ns Engineering
Energy Syster	ns	
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	
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 System
Professor	Nobuhiro Okada	1. 3D visual measurement 2. Robotics 3. System engineering
Associate		Development of Nonlinear Vibration Isolator 2. Development of Vibration Analysis Method for Large Scale Systems
Professor Associate	Takumi Sasaki	3. Development of Vibration Control Device using MR Fluid
Professor Associate	Changhee Cho Hiroshi	Study on the Wear of Ultra-High Molecular Weight Polyethylene for Artificial Joints 1. Development of a System for 3-D Micro Metrology Using an Optical Fiber Probe 2. Study on an intelligent machine tool
Professor	Murakami	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 I	nformation and Λ	ledia Engineering
Communicati	ons and Media Pro	cessing
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	Information security 2. Future communication networks
Associate	Yasushi Yamazaki	Biometrics 2. Information security 3. Pattern recognition
Professor Professor	Masahiro Okuda Takashi Satoh Yasushi	Multimedia Processing, Signal Processing 1. Information security 2. Future communication networks

Non-ciscs Seaule System Moreover Moscurian John College	Associate Professor	Hiroyuki Koga	1. Computer Communication Networks 2. Internet Architecture
Accorate Somu I. Development of multiple raper detection, designation and state estimation systems for autonomous our and robot Perfection of Nationals 3. In reprosonal of multiple raper detection, designation of the control of the	Associate	Seisuke Kyochi	
Security Sec	Associate		Development of multiple taget detection, classification and state estimation systems for autonomous car and robot
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Associate Professor Mesae Ridd Seismic Design and Frame Stability of Steet and Concrete Filled Steet Tubular Structures Associate Professor Koji Takasu 1. Development of cement-free concrete contributing to CO- reduction targets of the Paris Agreement 2. Study on modification of recycled building materials 3. Study on high performance concrete using recycled aggregate 4. Study on properties of the concrete using high volume by-products particles 5. Empromement analysis devices. Associate Hidelino Associate Hidelino 1. Safety management in buildings 2. Hot weather concrete ing 3. Medium fluidity concrete 4. Properties of the concrete using by product particles 5. Empromement analysis devices. Associate Hidelino 1. Safety management in buildings 2. Hot weather concreting 3. Medium fluidity concrete 4. Properties of the concrete using by Professor Koyamada 1. Performance of concrete containing by-product providers 2. Professor 4. Structure in concrete in Safety and international control of the fill of the product particles 5. Composition of different concrete 4. Neve building material made from the year product particles 5. Composition of different concrete 4. Neve building material made from the year product particles 5. Composition of different concrete 4. Neve building material made from the year product particles 5. Stable and product particles 5. Composition of different concrete 4. Neve building material made from the year product particles of the Associate 4. Professor Viji Ryu 3. Field study on Sick House in the Kyushu District 4. Professor Viji Ryu 3. Field study on Sick House in the Kyushu District 4. Professor Viji Ryu 4. Study on Sick House in the Kyushu District 4. Professor Viji Ryu 4. Study on Sick House in the Kyushu District 4. Development of performance prediction method of various passive environmental control systems 5. Study on under the professor Professor Viji Ryu 4. Study on the performance prediction method of various passive environmental control systems 5. Development of select	Structure and	d Construction	
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	Professor		5. Metal eco-toxicity 6. Biosensing and microbiorobotics 7. Fire-fighting technologies and bioengineering
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Associate Professor Katsunori Yanagawa Microbial distribution, community composition and biogeochemical cycles in the geobiosphere including extreme environment.			Microbial distribution, community composition and biogeochemical cycles in the geobiosphere including extreme environment.

Environmenta	nvironmental 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	

Institute of Environmental Science and Technology, The University of Kitakyushu TEL +81-93/695-3311 UR L http://office.env.kitakyu-u.ac.jp/kangiken/FAX +81-93/695-3368

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 Educ	ation	
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 Ed	lucation	
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	ns 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

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	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	ystems and Emerge	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	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	ction and Brain Fu	nctions
	Professor	Kiyohisa Natsume	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 Behav	vioral Sciences	
	Associate Professor	Hirohisa Isogai	Mechanisms of human motor behavior
	Human Techr	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

Graduate School of Information, Production and Systems, Waseda University TEL +81-93/692-5017 U R L http://www.waseda.jp/fsci/gips/ FAX +81-93/692-5021 E-mail gsips@list.waseda.jp



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 Notilinear Systems Professor Mizuho Iwaihara 1. Database Query Processing 2. Web Information Systems 3. Web Mining 4. XML Document Processing 5. Security and Privacy Professor Seiichiro Kamata 5. Sisichiro Kamata 5. Sisichiro Kamata 5. Sisichiro Kamata 5. Sisual Information Processing 2. Pattern Recognition and Computer Vision 3. Applications of Space-filling curves 4. Image & Video Retrieva 5. Sisual Information Processing 9. Port Studying Thinking Networks', we develop 'Bottom-up Intelligent Networks', 'Streaming Grid Computing' and 'Global IP Network Management' 1. Natural language processing 2. Artificial intelligence 3. Information theory 4. Example-based and statistical machine translation 5. Study of analogy and application to morphology, syntax and semantics 6. Use of analogy in machine translation and paraphrasing 7. Multilingual word alignement 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. Systemic Learning on Mechatronics 1. Spitial mechatronics 1. Optical network architecture (Survivable network architecture, Maintenance techniques) 3. Optical waveguide design (Optical libre textile, Light concentrator, Nonwaveguide devices) 3. Optical waveguide design (Optical libre textile, Light concentrator, Nonwaveguide devices) 4. Remote communication support 4. Remote communication support 4. Remote communication support 5. Support 5. Spitial measurement techniques) 3. Optical waveguide design (Optical libre textile, Light concentrator, Nonwaveguide devices) 1. Fusion of the real world and the virtual world 2. Augmented reality 3. Ubiquitous computing 4. Remote communication	Position	Name	Main Theme of Study
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Necessary Jungs III. Neuroconcularing systems and their Applications to learning and Control of Nationises Systems Professor Professor Secritin Grama Secritin Secritina Secritin Grama Secritin Grama Secritina Secritina Grama Secritina Secritin		1	
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Professor Serior Kormon		<u> </u>	
Professor Redict Royang For Adapting Thereing Networks, we develop fortion up intelligent Networks, Streaming Cric Computing and Global P Network Professor LEPACK, Yes Subject Stream Professor LePACK, Yes Professor			Database Query Processing 2. Web Information Systems 3. Web Mining 4. XML Document Processing 5. Security and Privacy Image Processing 2. Pattern Recognition and Computer Vision 3. Applications of Space-filling curves 4. Image & Video Retrieval
Professor FeAct vess South of analogy and apprication of professor 2. Antificial intelligence 1. Information theory 4. Example based and datatical markine translation 5. Study of analogy and apprication to morphology, syntax and semantics 5. Study of analogy and apprication to morphology, syntax and semantics 5. Study of analogy and apprication to morphology, syntax and semantics 5. Study of analogy and apprication to morphology, syntax and semantics 5. Study of analogy and apprication to morphology, syntax and semantics 5. Study of analogy and apprication to entration of a post-part of the professor 5. Study of analogy and apprication to entration of a post-part of the professor 5. Study of analogy and apprication to entration 5. Study of analogy and apprication 5. Measurement and Analysis of Human Morton and Bethavior 6. Systematic Learning on Mechatronics 5. Measurement and Analysis of Human Morton and Bethavior 6. Systematic Learning on Mechatronics 5. Measurement and Analysis of Human Morton and Bethavior 6. Systematic Learning on Mechatronics 5. Measurement and Analysis of Human Morton and Bethavior 6. Systematic Learning on Mechatronics 5. Measurement and Analysis of Human Morton and Bethavior 6. Systematic Learning on Mechatronics 5. Measurement and Analysis of Human Morton and Bethavior 6. Systematic Learning on Mechatronics 5. Measurement and Analysis of Human Morton and Bethavior 6. Systematic Learning and Mechatronics 5. Measurement techniques 5. Measurement 5. Measurement techniques 5. Measurement 5.		Selicniro Kamata	
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Professor Takafum National Communication System of Mobile Robot 2. Preliminary Announcement of Mobile Robot's Interaction (School Statematics Communication Control of Professor Professor Communication Communi	Professor	LEPAGE, Yves	5. Study of analogy and application to morphology, syntax and semantics
Professor Notice Professor Not	Professor		Remote Operation System of Mobile Robot 2. Preliminary Announcement of Mobile Robot's Intention Form and Movement of Human Synergetic Robot 4. Interaction with Human Symbiotic Robot
Professor June 1988 S. Language S. Language S. Knowledge (logistics) Professor June 1988 Remote communication support Remote Communication Remote Communication Remote Communication Remote Communication	Professor		2. Sensing technologies (Fiber-optic sensors, Optical measurement techniques)
Professor		Osamu Yoshie	
Professor Profes		Jiro Tanaka	Fusion of the real world and the virtual world Augmented reality 3. Ubiquitous computing
protessor Final production multi-agent systems; cellular manufacturing green production, retinery screeduing doubtion systems. Field Professor Hisoshi nujima Plant diagnosis technologies 1. Development of Brany Power Generation Rism: 2, Bajasian Network and Production 8, Inventory Control 3, Cellular Auromation and Traillic Flow Modeling 4. Traillic Signal Control 5, Cooperative Action Learning of Carrier Robot Swarn 6, Cellular Auromation and Traillic Flow Modeling 4. Traillic Signal Control 5, Cooperative Action Learning of Carrier Robot Swarn 6, Cellular Auromation and Traillic Flow Modeling 4. Traillic Signal Control 5, Cooperative Action Learning of Carrier Robot Swarn 6, Cellular Auromation and 15 application to Central System and Its Septiation for design 2. Cellular Auromation Rights Event Systems and Its application for design 2. Professor Professor Standard Rights of Discrete Event Systems and Its application for design 2. See a process modeling, Ginulator building and Control system design 2. Cyperation prediction and Control 5. Bridge diagnosis technique using sensor network 6. Office lighting control using sensor network 7. Professor Schoel Tatum 1. Automatic Remote Diagnosis of Gear Diving System Using a Small Laser Sensor Professor Takeo Miyake 1. Automatic Remote Diagnosis of Gear Diving System Using a Small Laser Sensor Professor Takeo Miyake 1. Automatic Remote Diagnosis of Gear Diving System Using a Small Laser Sensor Professor Takeo Miyake 1. Automatic Remote Diagnosis of Gear Diving System Using a Small Laser Sensor Professor Takeo Miyake 1. Automatic Remote Diagnosis of Gear Diving System Using and Standard Using Automation Professor 1. Automatic Remote Diagnosis of Gear Diving System Using and Standard Using Automation Professor 1. Automatic Remote Diagnosis of Gear Diving System Using and Eventual Professor 1. Automatic Remote Diagnosis of Gear Diving System Using Remote Professor 1. Automatic Remote Diagnosis of Gear Diving System Using Remote Prof		Wei, WFNG	Planning and logistics; scheduling and production control; operations research; job shop and flow shop problems; just-in-time
Professor Hiroshi Inujima Plant diagnosis technologies Professor Hee-Hyol Lee Professor Hee-Hyol Lee Professor Tomobiro Murato Repeated to the Professor Hard Repeated Professor Repeate		,	produciton; multi-agent systems; cellular manufacturing; green production; refinery scheduling
Professor Hee-Hyol Lee Professor Hee-Hyol Lee Professor Hee-Hyol Lee Professor Hee-Hyol Lee Professor California of Professor Professor California of			
Professor Hee-Hyol Lee 3. Cellular Automaton and Traffic Flow Modeling. 4. Traffic Signal Control. 5. Cooperative Action Learning of Carrier Robot Swan 6, Design of Decoupling Control System for MiMol Lange-Scale Systems. 7. Design of Silourging Mode Control System and Its Applications to Servo Systems and Process Systems. 8. Intelligent Control. 9. Stochastic Control Professor Professor Tomohiro Murata. Research on modeling, analysis and synthesis of Discrete Event Systems and Its Sapplication for design Professor Harutoshi Oga Silouroparisina application for enrormment control. 4. Automobile Tappine Control. Autonomous Driving Control. 5. Bridge diagnosis technique using sensor network. 6. Office lighting control using sensor network. 8. Office lighting con	Professor	Hiroshi Inujima	
Professor Harutoshi Ogal Harutoshi Callesia Harutoshi Ca	Professor	Hee-Hyol Lee	3. Cellular Automaton and Traffic Flow Modeling 4. Traffic Signal Control 5. Cooperative Action Learning of Carrier Robot Swarn 6. Design of Decoupling Control System for MIMO Large-Scale Systems 7. Design of Sliding Mode Control System and Its
Professor Harutoshi Ogal S. Microorganism application for environment control. 4. Automobile Engine Control. Automobile Engine Control. Automobile Spring Control Spring Control (Springe-Clare) Springe-Clare) Springe-Clare (Springe-Clare) Springe-Clare) Springe-Clare (Springe-Clare) Springe-Clare) Springe-Clare (Springe-Clare) Springe-Clare) Springe-Clare (Springe-Clare) Springe-Clare) Springe-Clare) Springe-Clare) Springe-Clare (Springe-Clare) Springe-Clare) Springe-	Professor	Tomohiro Murata	Research on modeling, analysis and synthesis of Discrete Event Systems and its application for design
Professor Elichiro Tanaka 2. Development of a Walking Assistance Device for Gait Training of Patients and Promotion Exercise of the Elderly	Professor	Harutoshi Ogai	5. Bridge diagnosis technique using sensor network 6. Office lighting control using sensor network
Associate Professor Shige Vision I Sami Constructure in Crystalline Materials 4. Marerials and technologies for energy and environment field Associate Professor Shige Vision I Sami Contact lens using integrated circuits 2. Wearable biofuel cell using enzyme catalysts 3. HH-mediated control of biofunction with electrochemical pH modulation 4. DDS system with nanostraw membrane Professor Shige Vision I Shige V	Professor	Eiichiro Tanaka	2. Development of a Walking Assistance Device for Gait Training of Patients and Promotion Exercise of the Elderly
Professor Takeon Associate Professor Shigy Liki Tateno 1. Development of fault detection and diagnosis systems for chemical plants 2. Estimation of Corrosion Rates for Corrosion Under Insulation in Petrochemical Plants 3. Wireless Communication support system for rescue actions 4. Development of on-demaid PC BTO systems 1. Power electronics (Conversion Cartes) 2. Power semiconductor devices 0. Structure design and process (2. Reliability study 3. Modeling of advanced power devices for circuit simulation Biomedical application of optical techniques: 1. Transillumination 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.) 3. Remote measurement and transinsion of biomedical data (Optical biotelemetry, Optical body-area-network, etc.) 2. Voltage Endurance Improvement and High Thermal Conductivity Characteristics by Nano/Micro-composite Technologies egrated Systems Field Professor Takaaki Baba Intelligent Mobile System and its Application Takeshi Ikenaga Video compression, video filter and video recognition systems Professor Shinji Kimura High Level System ISI Design and Verification, Design for Testability 1. Hardware security 2. Neuro information processing 3. Energy Efficient circuits and systems 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 Takakii 1. Per Circuit design methodologies such as power amplifiers, VCOs, filters, and so on 2. Re transistor modeling for SiGe HBTs, Si CMOS, and so on 1. Design Automation for System ISI 2. Optimization Technologies using Graph and Network Algorithms 1. Design Automation for System ISI 2. Optimization Technologies using Graph and Network Algorithms 1	Professor	Kohei Tatsumi	
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Brofessor Koichi Shimizu 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 Tomonori lizuka Tomonori lizuka Nanor/Micro-Composite Insulator Materials for Electronics Device Packaging 2. Voltage Endurance Improvement and High Thermal Conductivity Characteristics by Nano/Micro-composite Technologies	Professor	Masahide Inuishi	2. Power semiconductor devices ① Structure design and process ② Reliability study
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Professor Shinji Kimura High Level System LSI Design and Verification, Design for Testability Professor Hirofumi Shinohara 1. 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 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 2. 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		+	
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Associate Professor Kiyoto Takahata Takashi OHSAWA Kiyoto Takahata 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 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		Takeshi	Design Automation for System LSI
Associate Professor Kiyoto Takahata 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		rosnimura	
Assistant Kosuke Communication system for the next generation OHSAWA 1. Single transistor memory 2. Nonvolatile working memories, 3. Distributed memory architecture 4. Cognitive computers Communication system for the next generation		,	Opto-electronic integrated circuits 2. High-speed optical transmitter/receiver modules Photonic microwave/millimeter-wave devices
	Professor		1. Single transistor memory 2. Nonvolatile working memories, 3. Distributed memory architecture 4. Cognitive computers

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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	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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FAX +81-93/695-3047 E-mail kogaku@adm.fukuoka-u.ac.jp



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

Fukuoka Research Commercialization Center for Recycling Systems

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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.

