福冈工业大学&南京理工大学

双学位硕士留学项目招生老师研究介绍



2022年9月

Name 氏名	Kei Eguchi	Title 職位		Professor			
Major 専門分野	Switching converte	rs					
Master's Program 修士課程	Information Electro	Information Electronics					
Doctor's Program 博士課程	Material Science an	Material Science and Production Engineering					
e-mail	eguti@fit.ac.jp	eguti@fit.ac.jp URL http://www.fit.ac.jp/resear ch/search/profile/id/176					
Research introduction 研究紹介	In mobile electronic devices such as smart phones, tablets, and so on, a switching converter is one of the most important blocks. Because the mobile electronic device consists of several sub-circuits, each with its own voltage level requirement different from that supplied by a secondary battery. To develop multifunctional and portable products, the demand for a switching converter realizing small volume and light weight is increasing in recent years. To meet such demands, our laboratory members are developing the switching converter which is implementable in VLSI. By this research, Prof. Dr. Eguchi received CEEGE2022 Best Oral Presentation Award, ICIC International Outstanding Contribution Award, Top Peer Reviewer Award2019 (Web of Science), ICICIC2018, 2017, 2016, and 2009 Best Paper Award, 2016 Institute of Industrial Applications Engineers Award, and 2010 Takayanagi Research Encourage Award.						
Publication list 論文リスト	 K. Eguchi, D. Nakashima, T. Ishibashi, "Experimental study on discharging current to reduce voltage stress during underwater shock wave generation," Energy Reports, vol.8, supplement 10, pp. 113-120, 2022 M. A. Kamarposhti, H. Shokouhandeh, M. Alipur, I. Colak, H. Zare, K. Eguchi, "Optimal Designing of Fuzzy-PID Controller in the Load- Frequency Control Loop of Hydro-Thermal Power System Connected to Wind Farm by HVDC Lines," IEEE Access, vol. 10, pp. 63812-63822, 2022 K. Eguchi, D. Nakashima, T. Ishibashi, Y. Kino, "Simulation and analysis of a muplitiple-input single-output AC/DC converter for 13.56 MHz wireless power transfer systems," International Journal of Innovative Computing, Information and Control, vol. 18, no. 3, pp. 989-997, 2022 						
Other academic activities / その他の学術活動	 Senior member of IEEJ (Institute of Electrical Engineers of Japan) Intelligent Networks and Systems Society Associate Editors-in Chief Associate Editor of International Journal of Innovative Computing, Information and Control (IJICIC) Associate Editor of ICIC Express Letters 						
Remark /備考							

Name 氏名	Ryuichi Katayama	Title 職位	Professor			
Major 専門分野	Applied optics, Quantum optical engineering					
Master's Program 修士課程	Information Electronics					
Doctor's Program 博士課程	Material Science and Production Engineering					
e-mail	r-katayama@fit.ac.jp	URL				
Research introduction 研究紹介	 Novel functional optica (Joint research with con Example 1 High-brightness proje solid-state light source (High-efficiency of control of polarization intensity distribution using photonic crystal Example 2 High-density he magnetic recording (Formation of high nano-light spot with optical antenna using dots) 	l devices for hi npanies) ectors using es ptics by ation and n of light ls) eat-assisted -efficiency plasmonic g quantum	gh-performance o Dichrois prism Light Photonic source crystal Magnetic recordin Au dot GaAs substrate	ptical systems Projection lens LC panel LC panel Light spot (Heating area) InAs quantum dots incident light		
Publication list 論文リスト	 34 original papers with review including the followings Ryuichi Katayama et al., "Simulation on Near-Field Light Generated by a Semiconductor Ring Resonator with a Metal Nano-Antenna for Heat-Assisted Magnetic Recording", Jpn., J., Appl., Phys., Vol. 58, No. SK, SKKB01 (2019). Ryuichi Katayama, "Influence of Aberrations in Microholographic Recording", Opt. Eng., Vol. 54, No. 11, 117104 (2015). Ryuichi Katayama et al., "Enhancement of Near-Field Light Generated by Metal Nanodot on Semiconductor Substrate for Heat-Assisted Magnetic Recording Heat Source", Jpn. J. Appl. Phys., Vol. 54, No. 9S, 09MG01 (2015). Ryuichi Katayama, "Effect of Recording Beam Offsets in Microholographic Memory", Opt. Rev., Vol. 21, No. 5, pp. 687-693 (2014). Ryuichi Katayama, "Simulation on Near-Field Light Generated by Metal Nano-Dot on GaAs Substrate for Heat Source of Heat-Assisted Magnetic 					
Other academic activities その他の学術活動	 2 book chapters, 18 conference proceedings, 75 presentations at international conferences (including 6 invited talks), 95 presentations at domestic conferences (including 1 invited talk), and 30 miscellaneous 137 granted patents (75 Japan, 48 US, 12 Europe, and 2 China) Chair and committee member for several international and domestic conferences, and editor and reviewer for several academic journals 					
Remark 備考	 Received D.E. degree Experience for 27 yea 	from the Univ rs in research a	ersity of Tokyo in nd development in	1999 NEC Corporation		

Name 氏名	Fumihiko Maeda	Title 職位	Professor				
Major 専門分野	Surface, interface a	nd thin films physic	CS				
Master's Program 修士課程	Information Electro	onics		(Diel			
Doctor's Program 博士課程	Material Science ar	Material Science and Production Engineering					
e-mail	f-maeda@fit.ac.jp	f-maeda@fit.ac.jp URL www.fit.ac.jp/~f-maeda/					
Research introduction 研究紹介	 Graphene is a plane sheet with the thickness of one atomic layer in which carbon atoms forms honeycomb lattice networks. For the graphene, its excellent electrical properties had been theoretically predicted and about fifteen years ago, researches in UK succeeded to form this graphene and revealed the excellent electric properties. After this finding, many researchers noticed that the excellent electrical properties of the graphene caused by its thickness with an atomic layer. Then, the other atomic-layers of layered materials were fabricated and their interesting properties have been revealed. Now, researches in the world looked at these materials for the industrial application and their study has been accelerated explosively. One challenge for these materials is the establishment of the fabrication method for large scale and high quality atomic sheets to fit mass-production process. On the basis of this background of the atomic layer of layered materials, such as graphene, we have the following research project. 1. Establishing a new low-cost growth method to form high quality and large-area graphene. 2. Sensor application of the graphene especially utilizing graphene nanofin. 3. Fabrication of devices, which are removed from layered material substrate and attached to the other semiconductor substrates. 						
Publication list 論文リスト	 104 original papers with review including the followings. 1. F. Maeda, et al.: Very Gradual and Anomalous Oxidation at the Interface of Hydrogen-Intercalated Graphene/4H-SiC(0001), The Journal of Physical Chemistry C, 121, 26389-26396 (2017). 2. F. Maeda, et al.: Core-level photoelectron spectroscopy study of interface structure of hydrogen-intercalated graphene on n-type 4H-SiC(0001), Physical Review B 88, 85422 (2013) 3. F. Maeda, et al.: Molecular beam epitaxial growth of graphene using cracked ethylene -Advantage over ethanol in growth, Diamond and Related Materials 34, 84-88 (2013). 4. F. Maeda, et al.: Molecular beam epitaxial growth of graphene and ridge-structure networks of graphene, Journal of Physics D: Applied Physics 44, 435305 (2011). 5. F. Maeda, et al.: Growth of few-layer graphene by gas-source molecular beam epitaxy using cracked ethanol, Physica Status Solidi B 247, 916-920 (2010). 						
Other academic activities / その他の学術活動	1. Committee member of The Japan Society of Vacuum and Surface Science Kyushu Chapter						
Remark / 備考	1. Experience for 27	years of research ar	nd development	in NTT R&D center			

Name 氏名	Cunwei Lu 盧存偉 Title 職位 I		Professor					
Major 専門分野	3-D Image measurement and pattern recognition							
Master's Program 修士課程	Information Electronics							
Doctor's Program 博士課程	Intelligent Information	Intelligent Information System Engineering						
e-mail	lu@fit.ac.jp U	lu@fit.ac.jp URL www.fit.ac.jp/~lu						
Research introduction 研究紹介	 3-D Camera(An Optimal 3-D Image Measurement system) and 3-D prim. We measure the surface 3-D form and space 3-D coordinates of an obj from one sheet digital photograph by use of optimal pattern light projecti technique. The measurement result can be applied to broad fields, such form measurement, quality control, and facial recognition, and can applied also to 3D printer. Image measurement and quality control of automobile body Research about the measurement and the prediction of tsunami Application of AI technology for 3D image 							
Publication / patent list 論文/特許リスト	 C. Lu, L. Xiang: Opt Dimensional Shape I 4657, August 2003. C. Lu and G. Cho, 3 Projection Color-An of Systems, Control 2006 C. Lu, H. Kamitomo and Applications of Institute of Electrica (4) C. Lu and K, Tsujim and Dent for Used Edition), Vol.1101-E ************************************	imal Intensity-Mo Measurement, App -D Image Measur alysis and OIMP al and Information b, K, Sun, K, Tsu a 3D Image Meas l Engineers of Jap o, Automatic Mea Car Body Panel O, No.1, pp.124-13 ************************************	dulation Projection Technique for Three- plied Optics-IP, Vol.42, No.23, pp.4649- ement by Combination of Monochrome- Technique, Transactions of The Institute Engineers, Vol.19, No.6, pp.233-240, jino, G. Cho: 3D Camera: Development urement System, The transactions of the an. C, pp.320-328, Vol.131, No.2, 2011 surement System Development of Crack s, IEICE Trans. Inf.& Syst. (Japanese 4, 2018 ************************************					
Other academic activities / その他の学術活動	 Research about the 3-D facial recognit system 3-D shape measur forging 	measurement and ion technique an ement technique	the prediction of tsunami d its application for crime prevention for high-temperature and large-size					
Remark / 備考	 Industry-university Image measurem Form measurem 3-D image meass Equipment: 3-D Can Scholarship: We had 	 torging (1) Industry-university cooperation Research Image measurement and quality control of automobile body Form measurement and quality control of forge object 3-D image measurement of the form and size for a building (2) Equipment: 3-D Camera, Multiple- spectrum Camera, 3-D Microscope, etc. (3) Scholarshin: We have a scholarshin original with our laboratory. 						

Name 氏名	Tadayuki AKAGI	Title 職位	Professor			
Major 専門分野	Investigation of mechanisms for the self-renewal ability of pluripotent stem cells					
Master's Program 修士課程	Life, Environment	and Applied Chemi	istry			
Doctor's Program 博士課程	_			15 m		
e-mail	t-akagi@fit.ac.jp	URL https://ww lab.com/	vw.t-akagi-			
Research introduction 研究紹介	 Molecular and embryonic ste Transcription renewal ability of STAT3 and d Involvement of cells. Recent study We introduced characteristics Functional and Germ line of development of of the gene and 	alysis of downstr m (ES) cells. factor STAT3 is on of ES cells. We hav examined functions of oncogenes in the v indicated similarly d several oncogen of these cells. alysis of mutant C mutation of the C f immunodeficiency l examined function	eam targets of S e of the important re identified downs of them e self-renewal abi y between ES cell nes into ES cell /EBP epsilon. 2/EBP epsilon ger y disease. We foun as of the mutant us	STAT3 in mouse factors in the self- stream target genes ility of mouse ES is and cancer cells. Is and examined the is involved in d a novel mutation ing ES cells.		
Publication list 論文リスト	 Banday AZ, Kaur A, <u>Akagi T</u>, et al., A Novel CEBPE Variant Causes Severe Infections and Profound Neutropenia. J Clin Immunol. (in press) Muraoka M, <u>Akagi T</u>, et al., C/EBPε ΔRS derived from a neutrophil- specific granule deficiency patient interacts with HDAC1 and its dysfunction is restored by trichostatin A. Biochem Biophys Res Commun. 2019;516:293-299. Zhu B, Ueda A, Song X, Horike SI, Yokota T, <u>Akagi T</u>. Baf53a is involved in survival of mouse ES cells, which can be compensated by Baf53b. Sci Rep. 2017;7:14059. Ueda A, <u>Akagi T</u>, Yokota T. GA-binding protein alpha is involved in the survival of mouse embryonic stem cells. Stem Cells. 2017;35:2229-2238. <u>Akagi T</u>, Kuure S, et al., ETS-related transcription factors ETV4 and ETV5 are involved in proliferation and induction of differentiation- 					
Other academic activities / その他の学術活動	 Review Editor, Editorial Board <i>Therapeutics</i> (N Academic Editor 	Frontiers in Pharm Member, <i>Medicin</i> MDPI) or, PLoS ONE	acology 1es Cancer Biolog	gy and Anticancer		
Remark / 備考	1. Director, United <https: td="" www.uj<=""><td>l Japanese Research</td><td>ers Around the Wor</td><td>ld (UJA)</td></https:>	l Japanese Research	ers Around the Wor	ld (UJA)		

Name	Mikito Kitayama	Title	Professor	50		
Major	Materials Science (Ceramics)					
Master's Program	Life, Environment an	Life, Environment and Applied Chemistry				
Doctor's Program	Material Science an	nd Prod	uction Engineering			
e-mail	kitayama@fit.ac.jp	URL	www.fit.ac.jp/~kitayama			
Research topics	 Ceramic filter (ceramic membrane and bio-filter) High thermal conductivity Si3N4 ceramics Water treatment by the AOP (advanced oxidation process) using solid-state catalysts Solar fuel (water split by visible light) Dye-sensitized solar cell 					
Recent Publications	 R. Shiraishi, Y. Ohta and <u>M. Kitayama</u>, "Development of Porous Silicon Nitride with Tailor-made Pore Structure for Bio-Filter: III. Control of Micro-pore," <i>J. MMIJ</i>, 128 [4,5] 173-77 (2012). A. Kusuda, <u>M. Kitayama</u> and Y. Ohta, "Catalytic Activities of Zeolite Compounds for Decomposing Aqueous Ozone," <i>J. Environ. Sci.</i>, 25(Suppl.) S141-145 (2013). W. Ueta, Y. Ohta and <u>M. Kitayama</u>, "Development of Porous Silicon Nitride with Tailor-made Pore Structure for Bio-Filter: IV. Evaluation of permeability and bio-compatibility," 129 [5] 165-170 (2013). W. Ueta, Y. Ohta and <u>M. Kitayama</u>, "Development of Porous Silicon Nitride with Tailor-made Pore Structure for Bio-Filter: IV. Evaluation of permeability and bio-compatibility," 129 [5] 165-170 (2013). W. Ueta, Y. Ohta and <u>M. Kitayama</u>, "Development of Porous Silicon Nitride with Tailor-made Pore Structure for Bio-Filter: IV. Evaluation of permeability and bio-compatibility," 129 [5] 165-170 (2013). 					
Other academic activities	Member of American Ceramics Society, Ceramic Society of Japan, Japan Institute of Metal, Mining and Materials Processing Institute of Japan Head of Kyushu Branch, Corrosion Engineering of Japan					
Remark						

Name 氏名	Junko Kuwahara	Title 職位 Professor			sor		
Major 専門分野	Synthesis and Characterization of Soft Matter, Surfactants, Peptides and Biopolymers						
Master's Program 修士課程	Life, Environment ar	nd Applie	ed Chemi	stry			
Doctor's Program 博士課程							
e-mail	j-kuwahara@fit.ac.jp	URL					
Research introduction 研究紹介	 Development of extraction method of collagen and gelatin derived from tilapia scales We are investigating a method of efficiently extracting gelatin and collagen by physical stimulation such as crushing and heating without using chemicals by acid and base as much as possible. Synthesis and characterization of hydrogels using biopolymers such as gelatin and polysaccharides In order to obtain disposable soft actuators, hydrogels are synthesized on the basis of gelatin and polysaccharides which are biopolymers. Influence of natural pigments on amino acid surfactants on solution physical properties (surface tension, electric conductivity, contact angle) 						
Publication list 論文リスト	 Inprove the quality of cosmetic products and tolletry products, we investigate the physical properties of mixed systems of surfactants and natural pigment used in these products. The influence of surfactant on decomposition of pigment derived from Basella alba from Fukuoka prefecture by heating or artificial sunlight irradiation, Junko Kuwahara, <i>Journal of MMIJ</i> (2017) in press. Screening Evaluation of the Interaction of Linear-Chain or Branched-Chain Peptides with Multilamellar Vesicle, Using Confocal Laser Microscopy, Junko Kuwahara, Hajime Mita, Tetsuya Marume, <i>Journal of Oleo Sci.</i> (2017) in press. Conformational Analysis of Fish Collagen in Denaturation Process, Fumio Nakazawa, Riki Miura, Junko Kuwahara, Hajime Mita, PEPTIDE SCIENCE 2012, 371-374 (2013). 						
Other academic activities / その他の学術活動	Japan Oil Chemists' Society, Division of Interface Science, Secretary of Kyushu area					ence, Secretary of	
Remark / 備考							

Name 氏名	Xing-Zheng Wu	Title 職位	Professor					
Major 専門分野	Analytical Chemistry, Enviro							
Master's Program 修士課程	Life, Environment and Appli	ed Chemistry						
Doctor's Program 博士課程	Material Science and Pr	oduction Engine	ering					
e-mail	wu@fit.ac.jp	wu@fit.ac.jp URL						
Research introduction 研究紹介	 The following research projects are carrying out in my Lab. 1) Preparation of functional Au nanoparticle and its novel application. 2) Development of novel analytical methods for plants by making use of optical beam deflection and fluorescence 3) Capillary electrophoresis and its application in determination of sugar and study of protein-protein interaction. 4) Chemiluminescence methods for studying environmental and biochemical samples. 							
Publication list 論文リスト	 Improvements on the Fluorescence Quenching/Deflection Method for Real-time in situ Simultaneous Monitoring of Dissolved Oxygen and Material Movement-induced Beam Deflection in the Vicinity of an Aquatic Plant, Xing-Zheng WU, and Luowei HUANG, Anal. Sci., 34, 1335-1337 (2018). Real-time in-situ simultaneous monitoring of dissolved oxygen and materials movements at vicinities of an aquatic plant by fluorescence quenching/deflection with an improved calculation method Luowei Huang, Xing-Zheng Wu, SDRP Journal of Plant Science, 2 (2), 1-7 (2017). Real-time in-situ Simultaneous Monitoring of Dissolved Oxygen and Materials Movements at a Vicinity of Micrometers from an Aquatic Plant by Combining Deflection of a Probe Beam and Fluorescence Quenching Xing-Zheng Wu, * Xiaoyan Wu, and Tomomi Inoue, Anal. Sci., 33, 351-355 (2017) Comparative studies on effects of acid solutions on aquatic plants by beam deflection and absorbance spectroscopy methods Xing-Zheng Wu, Liangjiao Nie, and Tomomi Inoue, Anal. Sci., 31, 837-840 (2015). 							
Other academic activities / その他の学術活動								
Remark / 備考	Students who like to challenge	e new research are we	elcome.					

Name 氏名	Kiyoshi Matsuyama	Title 職位		Associate Professor		
Major 専門分野	Chemical Engineer	ing				
Master's Program 修士課程	Life, Environment	and App	lied Chemi	stry		
Doctor's Program 博士課程						
e-mail	matsuyama@fit.a c.jp	URL	www.fit.a a			
Research introduction 研究紹介	The objectives of or and nano-scale por technology. In the supercritical fluids toxicological adva advanced materials 1)Development of supercritical fluids 2)Particle design of fluids 3)Extraction bioact 4)Thermodynamic	The objectives of our study were to develop the formation process of micro and nano-scale porous and particle materials using supercritical fluid technology. In the addition to reducing organic solvent emissions supercritical fluids offer a number of specific physical, chemical toxicological advantages as alternative solvents for the production o advanced materials. 1)Development of advanced nanoparticulate and porous materials using supercritical fluids 2)Particle design of drug and supplement substance using supercritical fluids 3)Extraction bioactive compounds from plants using supercritical fluids 4)Thermodynamic modeling for chemical engineering				
Publication list 論文リスト	 1)I.Ushiki, <u>K.Matsuyama</u>, R.L.Smith, Sustainable approaches for materials engineering with supercritical carbon dioxide, in: G. Szekely, A. Livingston(Eds.), Sustainable Nanoscale Engineering, Elsevier, Amsterdam, 2020, pp.395–414. 2)<u>K.Matsuyama</u>, Supercritical fluid processing for metal–organic frameworks, porous coordination polymers, and covalent organic frameworks, <i>The Journal of Supercritical Fluid</i>, 134, 197–203(2018) invited review 3)<u>K.Matsuyama</u>,M.Motomura, T.Kato, T.Okuyama, H.Muto, Catalytically active Pt nanoparticles immobilized inside the pores of metal organic framework using supercritical CO₂ solutions, <i>Microporous and Mesoporous Materials</i>, 225, 26-32(2016) 4)<u>K.Matsuyama</u>, N.Hayashi, M.Yokomizo, T.Kato, K.Ohara, T.Okuyama, Supercritical carbon dioxide-assisted drug loading and release from biocompatible porous metal-organic frameworks, <i>Journal of Materials</i> 					
Other academic activities / その他の学術活動	 Editorial board men Plant Production S The Journal of S Article Award(201) 	mber of <i>T</i> <i>Ccience (T</i> <i>upercritic</i> 5)	The Journal Faylor & Fra cal Fluids	<i>of Supercritical Fl</i> ancis) Best Paper A (Elsevier) Editor-i	<i>uids</i> (Elsevier) ward (2018) n-Chief's Featured	
Remark / 備考	Our research group Toyota motor, Toyo	collabora Ink, Dai	ate with cor cel etc.	npanies such as Sa	msung Electronics,	

Name 氏名	Shijie Zhu	Title 職位		Professor				
Major 専門分野	Mechanical Behavior of Materials							
Master's Program 修士課程	Intelligent Mechani	Intelligent Mechanical Engineering						
Doctor's Program 博士課程	Material Science ar	nd Produ	ction Engi	neering				
e-mail	zhu@fit.ac.jp	URL	www.fit.a	c.jp/~zhu				
Research introduction 研究紹介	 Relationship between microstructures and mechanical behavior is studied, which includes the following topics. (1) Fatigue and fracture of materials (2) Development of soft actuator and power generator (3) Creep deformation and fracture of composites (4) Evaluation of thermal barrier coatings 							
Publication list 論文リスト	 Zhen-Qiang So Shijie Zhu, P generator with (2020) 015018 Samuel Shian, Optimizing th Elastomer Gene Y. Kodama, S Fracture of Cla Forum, Vol. 75 C. X. Dong, S prediction of polyethylene (2010), Page 3 Shijie Zhu, T. Takashi Ishika behavior of orth O matrix comp 2964-2973. Shijie Zhu, Ji dependent defe Mater. Trans. A M. Hasegawa, thickness on th Acta Materialia T. Tomimatsu, stress distributi (2003)2397-244 	ong , Kaz Power g laterally (10pp), J Jiangsh e Electri erators, A J. Zhu, ay Reinfo (2013) J. Zhu, compress Journa 506-351 akashi (wa, "Eff hogonal f posites", an-Wu formation A, 35A (2 S.J. Zhu he decoh a, 51 (17) S.J. Zhu ion in To 05.	uhiro Ohyar eneration p constrained https://doi.o nui Huang, rical Energ Advanced M Y. Nakaha orced Nylor 11-14. M. Mizund sive creep 1 of Mater 3. Gomyou, Y fects of loa three-dimen Journal of Cao, Minee in an enl 2004) 1853- , Y. Kagaw esion of hig 0 (2003) 51 and Y. Ka	ma, Samuel Shian, J performance of di configuration, Sma rg/10.1088/1361-6 Shijie Zhu, and cy Conversion Cy laterials, 26 (38) (2 ara, A. Usuki and n Nanocomposites, o and M. Hashime of silane-treated ials Science: Vol ⁷ asuo Ochi, Toshi ding rate and tem sional woven Tyra 'Materials Researd o Mizuno, Yutak nanced SiC/SiC c 2859. a, A.G. Evans, "Eigh purity copper-sa 13-5121. gawa, "Effect of th f EB-PVD TBC",	David R Clarke and ielectric elastomer art Mater. Struct. 29 65X/ab5766 David R. Clarke, ycle of Dielectric 014) 6617–6621. M. Kato, Fatigue, Materials Science oto, Modeling and TiO ₂ /high-density ume 45, Issue 13 io Ogasawara and perature in tensile nno fiber/Si–Ti–C– ch, 19 (10) (2004) a Kagawa, "Time omposite", Metall. ffect of metal layer apphire interfaces", hermal exposure on Acta Mater., 51(8)			
Other academic activities / その他の学術活動								
Remark / 備考								

			uk / I .					
Name 氏名	Masayoshi Inoue	Title 聙	 我位	Professor				
Major 専門分野	Applied superconductivity for energy & environmental engineering							
Master's Program 修士課程	Electrical Engineerin	Electrical Engineering						
Doctor's Program 博士課程	Material Science and Production Engineering							
e-mail	ms-inoue@fit.ac.jp	ms-inoue@fit.ac.jp URL www.fit.ac.jp/~ms-inoue						
Research introduction 研究紹介	 Investigation of electro-magnetic properties in high-temperature superconducting materials. High-temperature superconducting materials, especially superconducting wires are very attractive for energy and environmental engineering because of those low energy loss and high current density. However, more high electro-magnetic properties are required for practical applications. We are investigating 1) current-voltage properties in a wide range of temperature and magnetic field, 2) critical current distributions by using scanning Hall-probe microscopy, 3) microstructures by using X-ray CT and several microscopes such as SEM and TEM. Engineering design of superconducting power applications superconducting power applications such as Superconducting Fault Current Limiters (SFCL), Superconducting motor/generator, Superconducting cable and analyze the efficiency in individual operation and electric power grid 							
Publication list 論文リスト	 "Enhancement of In-Field Critical Current Density of BaZrO₃-Added (Y, Gd) BCO-Coated Conductors by Using a Multi-Coating TFA- MOD Method", IEEE Trans. on Applied Superconductivity (28) 2018 "Study of Growth Process for YBa₂Cu₃O_y Coated Conductors with BaZrO₃ Flux Pinning Centers by Monitoring Electrical Conductivity", IEEE Trans. on Applied Superconductivity (28) 2018 "Current Capacity of Cu-Sheathed Multifilamentary Coated Conductors Under the Influence of Spatial Variation of Local Critical Currents in Each Filament", IEEE Trans. on Applied Superconductivity (28) 2018 "Comparison between Bi-2223 tape and RE-123 coated conductor from the view point of current transport properties influencing thermal stability", Cryogenics (80) 2016 "Three-Dimensional Analysis of MgB₂ Wire by use of X-ray Micro- 							
Other academic activities / その他の学術活動	 Vice Chairman of Planning committee, the Cryogenic and Superconductivit Society of Japan General Secretary of Superconductor Division, the Japan Society of Applie Physics Council member of Kyushu-branch, the Institute of Electrical Engineering of Japan 							
Remark / 備考		_	_					

Name 氏名	Kazuhiro Ohyama	Title 職位	Professor			
Major 専門分野	Power electronics and	motor control				
Master's Program 修士課程	Electrical Engineering					
Doctor's Program 博士課程	Electrical Engineering			I		
e-mail	ohyama@fit.ac.jp	URL http://v	www.fit.ac.jp/			
Research introduction 研究紹介	 Development of High Vehicles: This project its inverter including or SRM drive system for Development of Sen Developments of sens vehicle are urgent iss develops sensorless SF Electric Vehicle Conv to an electric vehicle. T which is developed in it Development of Wind and Capacitor-less A improvement, and env wind power generation system using the switc which brings solutions Development of Hydr This project develops a system using flutter pl efficient use of the hydr Development of Wava generation devices usi and stepdown converted developed generation of the final phase of this p Development of Flex actuator (FLA) using a will be applied to tend B. Development of High induction motor drives purpose inverters. How enough performance in this project develops a speed. Stability Analysis an System: This project induction motor drive general-purpose inverter 	h Efficient Switch develops a high eff ontrol system to ach electric vehicle. sorless Switched sorless Switched re- ue to exploit robu M drives. version Project: The che electric vehicle of the previous project d Generation Syste AC-AC Converter ironmental enhance in systems. Therefor ched reluctance ger to the above-menti raulic Power Generi generator and power henomena. This hy lraulic power of agr e-Activated Power ng dielectric elasto er are treated to reali- device will be appli- project. ible Linear Actuar wire and coils whico on-driven robots. In Performance Sen- are widely used for vever, the sensorless in very low speed an novel control meth- thed Design Method proposes stability system which is u- ers.	ed Reluctance Moto icient switched relucta ieve the practical reali Reluctance Drive f eluctance motor (SRM st feature of SRM. T is project converts a c employs the high effici- its. em Using Switched F : Low cost power ement are urgent issues. Fration System Using er converter for a hydra draulic power generati- icultural water passag Generation System: mers. Mainly high vo ze the high-efficiency ed to a wave-activated to can have a motion 1 nsorless Vector Cont electric vehicles, rolli s induction motor driv d regenerating operati- iod to improve the per- ls of Sensorless Ind analysis and design f sed for electric vehicle	br Drive for Electric ance motor (SRM) and zation of high efficient for Electric Vehicle: (I) drives for electric Therefore, this project car using petrol engine ient SRM drive system Reluctance Generator generation, reliability es for developments of es the wind generation less AC-AC converter This project develops of generation system will make es. This project develops oltage power converter power generation. The d generation system in elops a flexible linear ike a muscle. The FLA trol Drive: Sensorless ng plants, and general- re systems do not have ion regions. Therefore, rformance of very low luction Motor Drive methods of sensorless es, rolling plants, and		
Publication list 論文リスト	https://researchmap.jp/read(https://www.fit.ac.jp/researchmap.ip/	0191922/?lang=eng earch/search/prof	<u>lish</u> ile/edit_lang_divisi	on/E/id/57		
Other academic activities / その他の学術活動	Members of IEEJ and IEEE Collaborative research with	Members of IEEJ and IEEE Collaborative research with Meiwa Manufacturing Co.				
Remark / 備考						

Name 氏名	Jiro Kitagawa	Title 職位		Professor				
Major 専門分野	Magnetic and superconducting materials							
Master's Program 修士課程	Electrical Engineer	Electrical Engineering						
Doctor's Program 博士課程	Electrical Engineer	Electrical Engineering						
e-mail	j-kitagawa@fit.ac.jp	j-kitagawa@fit.ac.jp URL http://www.fit.ac.jp/~j- kitagawa/						
Research introduction 研究紹介	 Development of new magnetic materials Magnetic materials are widely used as permanent magnets or hig permittivity materials in motor, transformer, hard disk, magnetic senser medical equipment and so on. Furthermore, magnetic materials pla important roles in finding of novel phenomena. Our group is carrying or new-materials research on magnetic compounds, aiming at breaking ne ground in applied and fundamental sciences. Materials research on new superconductors Superconductors are attractive from the basic and the practical view point. We are now carrying out the materials research on new superconductor based on the idea of microstructure or high-entropy alloys. In our group, we made a sample by arc melting or solid state reaction technique. After that we investigate the structure by an X-ray diffractometer and perform the metallographic examination by a FE-SEM. We measure the magnetic and transport properties by home-made system and VSM. 							
Publication list 論文リスト Other academic activities / その他の学術活動	 "New high-entropy alloy superconductor Hf₂₁Nb₂₅Ti₁₅V₁₅Zr₂₄" N. Ishizu and J. Kitagawa Results in Physics 13 (2019) 1022752. "Superconductivity in oxygen-added Zr₅Pt₃" S. Hamamoto and J. Kitagawa Mater. Res. Express 5 (2018) 106001. "New room-temperature ferromagnet: B-added Pd_{0.75}Mn_{0.25} alloy" J. Kitagawa and K. Sakaguchi J. Magn. Magn. Mater. 468 (2018) pp.115-122. "Photoinduced Kondo effect in CeZn₃P₃" J. Kitagawa, D. Kitajima, K. Shimokawa, and H. Takaki Physical Review B 93 (2016) 035122. member of the following groups: The Rare Earth Society of Japan, The Phy 							
				-				
Remark / 備考								

Name 氏名	Daisuke Tashima	Title 職位		Professor		
Major 専門分野	Super capacitor, ma	agnesiun	n air fuel ce	ell, battery		
Master's Program 修士課程	Electrical Engineer	ing			125	
Doctor's Program 博士課程	Energy System Eng	gineering	5			
e-mail	tashima@fit.ac.jp					
Research introduction 研究紹介	Studies on the use of electric double-layer capacitors (EDLCs) for use as energy storage devices are underway in Japan and other countries. EDLCs are a typ of physical battery, and hence have attracted significant attention from the viewpoint of preventing global warming and satisfying the growing deman for energy. EDLCs, which contain activated carbon as the primary constituen have a markedly longer life than normal batteries and have excellent discharge characteristics. In this research, we pay attention to carbon materials used for an electrode of a capacitor and develop a high-efficiency capacitor using ner carbon materials from organic waste (Japanese distilled liquor waste, Footwaste, Marine plastic). In addition, we study a new method to improve power density and energy density for magnesium air fuel cells (MAFCs). We are also studying MAFC and EDLC hybrid vehicle as shown in this Fig.					
Publication list 論文リスト Other academic activities / その他の学術活動	 T. Omori, M. Nakanishi and <u>D. Tashima</u>, "High-Temperature Degradat Tests on Electric Double-Layer Capacitors: The Effect of Residual Volta on Degradation", Materials, Vol.14, No.6, pp.1520/1-1520/10, Ma 2021 <u>D. Tashima</u>, M. Hirano, S. Kitazaki, T. Eguchi, S. Kumagai, "Soluti plasma treatment of activated carbon from shochu distillery waste electrochemical capacitors", Materials Chemistry and Physics, Vol.2 123523, November 2020 T. Eguchi, <u>D. Tashima</u>, M. Fukuma, S. Kumagai, "Activated carb derived from Japanese distilled liquor waste: Application as the electro active material of electric double-layer capacitors", Journal of Clea Production, Vol.259, 120822 June 2020 total journals: 69, total international conferences: 96 					
Remark / 備考	Equipment: vacuum discharge tester, elec	n glove	box(for mainted box)	king supercapacito	or), battery charge-	

Name 氏名	Satoshi Kitazaki	Title 職位	Associate Professor				
Major 専門分野	Development of sa agricultural field	for medical and	66				
Master's Program 修士課程	Electrical Engineering						
Doctor's Program 博士課程							
e-mail	kitazaki@fit.ac.jp	URL www.fit.a	.c.jp/~kitazaki				
Research introduction 研究紹介	 We have researched discharge plasmas for life science innovation. (1) Investigation of growth promotion of plants using discharge plasma irradiation. (2) Development of safety plasma irradiation devices for medical field. (3) Investigation of interaction between plasma and liquid using absorption spectroscopy method. 						
Publication list 論文リスト	 S. Kitazaki, A. Tanaka, N. Hayashi: Sterilization of narrow tube inner surface using discharge plasma, ozone and UV light irradiation, Vacuum, 110, pp. 217–220 2014/12 S. Kitazaki, T. Sarinont, K. Koga, N. Hayashi, M. Shiratani: Plasma induced long-term growth enhancement of Raphanus sativus L. using combinatorial atmospheric air dielectric barrier discharge plasmas, Current Applied Physics, 14, pp. S149-S153 2014/7 S. Kitazaki, K. Koga, M. Shiratani, N. Hayashi: Growth Control of Dry Yeast Using Scalable Atmospheric Pressure Dielectric Barrier Discharge Plasma Irradiation, Japanese Journal of Applied Physics, 51, pp. 11PJ02- 1 - 4 2012/11 S. Kitazaki, K. Koga, M. Shiratani, N. Hayashi: Growth Enhancement of Radish Sprouts Induced by Low Pressure O2 RF Discharge Plasma Irradiation, Japanese Journal of Applied Physics, 51, pp. 01AE01-1 - 4 2012/1 N. Hayashi, A. Nakahigashi, M. Goto, S. Kitazaki, K. Koga, M. Shiratani: Redox Characteristics of Thiol Compounds Using Radicals Produced by Water Vapor Radio Frequency Discharge, Japanese Journal of Applied 						
Other academic activities / その他の学術活動	 Investigation o pitting mechan Development o 	f electrical discharge ism. f low breakdown vo	e in mechanical oil Itage discharge elec	to clarify electrical ctrode.			
Remark / 備考	We have been doing	collaboration resear	rch with Kyushu un	iversity.			

Professor Information (Graduate School of Engineering)

Name	Kyoichi Suzuki	Title	Associate Professor	
Major	Semiconductor nanos	100		
Master's Program	Electrical Engineerin	E		
e-mail	k-suzuki@fit.ac.jp	URL		
Research introduction	As semiconductor mechanical propertie their characteristics. observed, such as quirecently, the materials called topological inside insulating state different topology. at the boundary. We have investigated topological insulators insulating state in semiconductor quanties in the band gap of the the conduction and vatifically. Conduction band $E_0 = E_0$	devices develop s, rather than the As a resulantum Hall eff s, which have a ulators, have b e and the outs As a result, dist ated electronic particularly emiconductor um well has a the e well layer. alence bands or or both bands, $V_{\rm G}$	p and become highly integrate the quantity of the electrons lt, the conductance quantity even found. In the topologically-different insurements for the could not be connected and the topological one could not be	rated, the quantum , mainly dominate ization has been tact. In addition, lating state inside, ical insulators, the ected due to their nsport is expected nanostructures and alize a topological tample, the usual the Fermi level is arge electric field, he hybridization of a state should be Topological Insulator
Publication list	Gate-controlled Sem Heterostructure, K. S Edge Channel Transp <i>et al.</i> , Phys. Rev. B 8 Imaging of Interferen InAs/GaSb Heteroi Spectroscopy, K. Suz Appl. Phys. Paper Av Spatial Imaging of Quantum Wells, K. S Suggestion] Landau-Level Hybrid Electron-Hole System	imetal-Topolo uzuki <i>et al.</i> , Ph oort in InAs/Ga 7, 235311 (201 nce between In interface by zuki <i>et al.</i> , Jpn ward 2008] Two-Dimens Suzuki <i>et al.</i> , I dization and th ns, K. Suzuki <i>e</i>	gical Insulator Transition hys. Rev. B 91 , 245309 (201 Sb Topological Insulating H 13). ncident and Reflected Elec Low-Temperature Scar J. Appl. Phys. 46 , 2618 (2 ional Electronic States i Phys. Rev. Lett. 98 , 136802 e Quantum Hall Effect in H et al., Phys. Rev. Lett. 93 , 0	in an InAs/GaSb 15). Phase, K. Suzuki etron Waves at an uning Tunneling 2007). [Jpn. Soc. n Semiconductor 2 (2007). [Editor's InAs/(AISb)/GaSb 16803 (2004).

Name 氏名	Masahiro Nakanishi	Title 職位		Asistant Professor		
Major 専門分野	Soft Matter Physics	60				
Master's Program 修士課程	Soft Matter Physics	5			2	
Doctor's Program 博士課程	Soft Matter Physics	5				
e-mail	m-nakanishi@fit.ac.jp	m-nakanishi@fit.ac.jp URL http://www.fit.ac.jp/research/search/ profile/edit_lang_division/E/id/222				
Research introduction 研究紹介	 (i) Electrical Proper Mixing several mat which have both p typically hard while metals into plastics minority componen be straightforwardl Wagner theory. As correlation between of the composite conductor/insulator seeks a route to go b (ii) Molecular Dyna By means of broad sub THz, we study solutions, and their) Electrical Properties of Composite Materials lixing several materials is practically important method to make materials hich have both properties together. For example metal conductors are pically hard while insulating plastics are soft and bendable. Then mixing etals into plastics yields conducting soft materials. If the fraction of the inority component is far less than 1, electric property of the composite can e straightforwardly calculated by mean-field approach such as Maxwell- /agner theory. As the fraction increases, this approach breaks down and orrelation between particles plays central roll on the electrical properties of the composite. My group studies the electrical properties of onductor/insulator composites by broadband dielectric spectroscopy and eeks a route to go beyond the mean-field approach of composite materials. i) Molecular Dynamics of Soft Condensed Matter y means of broadband dielectric spectroscopy in the range from µHz to ib THz, we study molecular dynamics of hydrated proteins, ice, ionic olutions, and their glass transition phenomena				
Publication list 論文リスト	 N. Yamamoto, S. Ito, M. Nakanishi, E. Chatani, K. Inoue, H. Kandori, K. Tominaga, J. Phys. Chem. B 122, 1367 (2018), "Effect of Temperature and Hydration Level on Purple Membrane Dynamics Studied Using Broadband Dielectric Spectroscopy from Sub-GHz to THz Regions". D. N. Voylov, P. J. Griffin, B. Mercado, J. K. Keum, M. Nakanishi, V. N. Novikov, A. P. Sokolov, Phys. Rev. E 94, 060603(R) (2016), "Correlation between temperature variations of static and dynamic properties in glassforming liquids". M. Nakanishi, A. P. Sokolov, J. Non-Cryst. Solid. 407, 478 (2015), "Protein dynamics in a broad frequency range: Dielectric spectroscopy studies". 					
Other academic activities / その他の学術活動						
Remark / 備考						

Name 氏名	Makio Ishihara	Title 職位	Professor	
Major 専門分野	Human Computer Int			
Master's Program 修士課程	Information Engineer	ring		÷
Doctor's Program 博士課程			-	
e-mail	m-ishihara@fit.ac.jp	URL	www.fit.ac.jp/~m-ishihara/Lab	
Research introduction 研究紹介	The research field computers and discus comfortably. It is what is the best we laboratory, the stude Head-Mounted Displ Tobii Eye Tracker, Le AR techniques etc. getting-lost problem interface, pointing in the details of these homepage: http://w	of Hum sses wha also kno ay for p ents take lays, Date eap Moti The , mixed terface, topics a <i>toww.fit.a</i>	han Computer Interaction focuses t makes them use computers intuition own as User Interface. The respective people to communicate with construction of the communicate with construction to a gloves, 3D Displays, HoloLens, on, CAVE, Vicon Motion Tracker, range of my research includes reality, real-world oriented user gamification, spatial Interface and are introduced on the laboratory <i>c.jp/~m-ishihara/Lab/</i>	on how people use ively, naturally, and earch question is mputers? In my the question using OpenGL + AR
Publication list 論文リスト Other academic	 [1] M. Ishihara and I NN Fingerprinting fe e103-d, no. 5, pp. 103 [2] Y. Mako and M. [3] Y. Ishihara and M [3] Y. Ishihara and M [4] Y. Ishihara and M. [5] M. Ishihara and M. [5] M. Ishihara and M [6] M. Ishihara and Y of tabletop displays a 1279, 2017. 	R. Kawa or Indoo 55-1066 Ishihara <i>EICE Tr</i> <i>1</i> . Ishiha in virtua <i>Techno</i> Ishihara <i>l of Affe</i> Y. Ishiha <i>ICE Tra</i> <i>7</i> . Ishiha and its e	shima, Multi-Distance Function T or Positioning and Its Evaluation, , 2020 a, A long-arrow mouse cursor for <i>ans.</i> , vol. j102-d, no.12, pp. 812-8 ara, Preliminary study on angular j 1 space, <i>Proc. of the 24th ACM Sy</i> . <i>logy (VRST '18)</i> , 113, Nov. 2018 , Long arrow mouse cursor and its <i>ctive Engineering</i> , vol. 17, no. 4, p ara, Impact of viewing distance o <i>ns.</i> , vol. e101-d, no. 10, pp. 2530-2 ra, A shadow cursor for calibrating valuation, <i>IEICE Trans.</i> , vol. e100	Frilateration over k- <i>IEICE Trans.</i> , vol. sense of ownership 21, 2019. properties of spatial <i>mposium on Virtual</i> properties on SoO, p. 221-225, 2018. n task performance 2533, 2018. g screen coordinates 0-d no. 6, pp. 1271-
activities / その他の学術活動				
Remark / 備考				

Name 氏名	Kazumasa OIDA	Title 4	 截位	Professor	-		
Major 専門分野	Studies on security, social network, and blockchain technologies						
Master's Program 修士課程	Computer Science and Engineering						
Doctor's Program 博士課程	Intelligent Informat	tion Syst	em Engine	ering			
e-mail	oida@fit.ac.jp	c.jp URL http://www.fit.ac.jp/~oida/ index.html					
Research introduction 研究紹介	1. Malware analysis and detection We have been monitoring two smishing malware families, XLoader and FakeSpy, currently prevalent in Japan to mitigate damage caused by them. 2. IP traceback over Tor We are conducting research to track attackers in order to deter crimes that exploit the anonymous network Tor. 3. Bi-polarization in cascade size distributions We have been engaged in demonstrating the bi-polarization phenomenon be means of simulation studies and mathematically rigid formalization. $I^{10}_{00} \frac{1}{250 500 150 1001259150015752000}$ $I^{10}_{00} \frac{1}{250 500 500 100125915001575200}$ $I^{10}_{00} \frac{1}{250 500 500 100125915001575200}$ $I^{10}_{00} \frac{1}{250 500 500 100000}$ $I^{10}_{00} \frac{1}{250 500 500 100000}$ $I^{10}_{00} \frac{1}{250 500 500 10000}$ $I^{10}_{00} \frac{1}{250 500 500 1$				The with a collision		
Publication list 論文リスト	 K. Oida, "Bi-polarization in cascade size distributions," IEEE Access 72867-72880, 2021. Y. Pei, and K. Oida. "Tracing Website Attackers by Analyzing Onion Route Log Files," IEEE Access, 8, 133190-133203, 2020. K. Oida and K. Okubo, "Adopter community formation accelerated repeaters of product advertisement campaigns," IEEE Trans. Computatio Social Systems, 6, 1, 56-72, 2019. K. Oida, "Impact of network density on cascade size and community 						
Other academic activities / その他の学術活動	Collaboration with Emotet, Tor analysis Toronto on the deve	Collaboration with Fukuoka Prefectural Police Headquarters on malware Emotet, Tor analysis, etc. starting in 2019. Collaboration with the University o					
Remark /備考							

Name 氏名	Takayoshi Shoudai	Title 職位	Professor		
Major 専門分野	Algorithmic Graph Th	eory and Machine	Learning	110	
Master's Program 修士課程	Mathematics				
Doctor's Program 博士課程	Information Systems				
e-mail	shodai@fit.ac.jp	URL https://g	slt.cs.fit.ac.jp		
Research introduction 研究紹介	Recently, due to the rapid growth of available data, there are growing expectations and desires for discovering interesting and useful patterns which are hidden in datasets. Particularly, many researchers are interested in knowledge discovery from data having structures such as sequences, trees, or graphs. Graph-structured data widely appears in various practical fields. For example, HTML and XML texts can be expressed by ordered trees and chemical compounds can be expressed by graphs whose vertices and edges correspond to atoms and bonds between atoms respectively. For such graph data, graph mining and learning techniques for finding their characteristic structures will be useful for many practical applications. Our main research projects are as follows. (1) Design and analysis of efficient graph pattern learning algorithms for new and interesting graph pattern classes: A graph pattern is a graph-structured pattern with internal variables that represents a characteristic common structure in graph-structured data. (2) Development of graph generation models based on graph grammars: Our object is to design algorithms for mining interesting patterns in dynamic graphs. In addition, we are now studying graph neural networks (GNNs) in data mining and machine learning fields.				
Publication list 論文リスト	 T. Shoudai, T. Miyahara, T. Uchida, S. Matsumoto, and Y. Suzuki, Efficient Pattern Matching Algorithm for Unordered Term Tree Patte of Bounded Dimension. IEICE Trans. Fundamentals, Vol.E 101-A, No pp.1344-1354, 2018. T. Shoudai, Y. Yoshimura, Y. Suzuki, T. Uchida, and T. Miyaha Polynomial Time Learnability of Graph Pattern Languages Defined Cographs. IEICE Trans. Inf. & Syst., Vol.E101-D, No. 3, pp.582-5 2018. T. Shoudai and T. Yamada, A Polynomial Time Pattern Match Algorithm on Graph Patterns of Bounded Treewidth, IEICE Tra Fundamentals, Vol.E100-A, No. 9, pp.1764-1772, 2017. T. Shoudai, S. Matsumoto, Y. Suzuki, Distributional Learning of Regu Formal Graph System of Bounded Degree, Proc. ILP2016, Spring 				
Other academic activities / その他の学術活動	The International Co Member of Program C The Best Paper Awar Informatics (IIAI AAI Certificate of Merit for Science, International	onferences on Inductive Logic Programming (ILP), Committee, 2004, 2006-2008, 2010-2018. d, IIAI International Conference on Advanced Applie (2013) r the 2009 IAENG International Conference on Compute MultiConference of Engineers and Computer Scientist			
Remark / 備考					

Name 氏名	Makoto FUKUMOTO	Makoto FUKUMOTO Title 職位						
Major 専門分野	Affective Computing, Soft Computing							
Master's Program 修士課程	Computer Science and Engineering							
Doctor's Program 博士課程	Intelligent Informa	tion System Engine	ering					
e-mail	fukumoto@fit.ac.jp	URL www.fit.a	c.jp/~fukumoto					
Research introduction	The main research (1) Creation of med (2) Interactive type (3) Investigation including music pid The figure shows blended juice suited with paired compar	themes are as follow dia content suited to of evolutionary con of media content eces, sounds, tastes, an Interactive Ev d to the user's feeling isons. Based	ws; the user's feeling mputation with va- nt's psycho-physic and fragrances. olutionary Comp gs [5]. The user eva- Arduino	s. rious algorithms. iological effects, utation searching aluates fragrances				
研究紹介	on the repetitive comparisons, Genetic Algorithm (GA), one of the evolutionary algorithms, proceeds the searching process for better fragrance composition. In creating music melody [2,4,6], GA individual includes information on the key of musical notes. T GA individualincludes Drive $TBatio of each sourcejuice for blendingRatio of each sourcecalculation of GA$							
Publication list 論文リスト	 M. Fukumoto, H. Konishi: Adjustment of Interval of Voices in Cognitive Shuffle Method by Body Movement Feedback with Binaural Sound, Proc. SNPD2022-Summer, to appear, 2022. H. Gan, M. Fukumoto: Composition of Musical Piece Suited to Natural Sound by Interactive GA using User's EEG as Fitness, Proc. IIAI AAI2022, pp.593- 596, 2022. M. Fukumoto: The Efficiency of Interactive Differential Evolution on Creation of ASMR Sounds, Proc. ICSI2021, Advances in Swarm Intelligence, Part 1, pp.368-375, 2021. M. Fukumoto, Y. Hanada: Investigation of the Efficiency of Continuous Evaluation-based Interactive Evolutionary Computation for Composing Melody, IEEJ Trans. on Electrical and Electronic Engineering, 15(2), pp.235-241, 2020. M. Fukumoto, Y. Hanada: A Proposal for Creation of Beverage Suited for User by Blending Juices based on Interactive Genetic Algorithm, Proc. IEEE SMC2019, pp.1104-1109, 2019. G. Yamaguchi, M. Fukumoto: A Music Recommendation based on Melody Creation by Interactive Genetic Algorithm with User's Intervention, Proc. ISIS2019&ICBAKE2019, pp.146-151, 2019 (Best Paper Award) 							
Other academic activities / その他の学術活動	(1) A director of Jap (2) An editorial box	an Society of Kanse	i Engineering	Engineering				
Domode / 供求		ia member of Japan						
Remark / 俪考								

Name 氏名	Hiroyuki Yamauchi	Title 職位	Professor			
Major 専門分野	Ultra Low Energy D Computing in AI Even	Machine Learni rywhere Era	ing for IoT-Edge AI			
Master's Program 修士課 程	Computer Science ar	nd Engineering		125 12		
Doctor's Program 博士課 程	Intelligent Information	on System Engi	ineering			
e-mail	yamauchi@fit.ac.jp	URL www.	fit.ac.jp/~yamauchi			
Research introduction 研究紹介	 In this lab, the following research themes are being considered. →URL: https://www.fit.ac.jp/~yamauchi/english/index.html 1) Study for Ultra Low Energy Machine Learning for IoT-Edge A Computing in AI Everywhere Era,. 1-1) Binary Net (New-Net better than XNOR Net,) 1-2) Sparse & Compact Net (Dictionary & Sparse Learning) 1-3) Mobile-Net Like Model for YOLO and others 1-4) Hardware implementation, Rasberry Pi, Google Coral, etc) 2) In-Memory Computing Utilizing Dual Roles of Data Store and Arithmetic Operation) 2-1) CMOS SRAM-Based 2-2) Emerging Memory Based, RRAM, MRAM, and others 					
Publication list 論文リスト	 <i>Refereed Journal Pate</i> 1) Relaxed Training Machine Learning and 2) A Dual-Split 6T Fully Parallel Product IEEE Transaction Papers, Vol.66, No.11 3) A 28nm 320Kb T Cell and Triple Marg Circuits, Vol.54, No. 	to a Binary N for a Binary N ad Computing (I SRAM based C ct-Sum Operations on Circ ,pp 4171-4185, FCAM Macro of in Voltage Sense 10,pp 2743-275	<i>Refereed Proceeding</i> Neural Network, Intern IJMLC), Vol.13,No.1, Computing-in-Memory on for Binarized DNN cuits and System , Nov. 2019 using Split-Controlled se Amplifier, IEEE Jou 53, Oct. 2019	Papers: >77 national Journal of pp 1-10, Apr. 2023 V Unit-Macro with N Edge Processors, ns I: Regular I Single-Load 14T urnal of Solid-State		
Other academic activities / その他の学術活動	Grant from Government and Industries since 2006 Total is about 400,000 USD Program committee for the IEEE top-ranked international conferences. (1) IEEE International Solid-State-Circuit Conference (2001-2010) (2) IEEE Symposium on VLSI Circuits (1995-2000, 2010-2015) (3) IEEE Asia- Solid-State-Circuit Conference (2009-2014) Program committee chair for the international conferences: (1) International Conference on Network and Computer Science (201-2015)					
Remark / 備考	I have over-20-years experiences as a R&D engineer and a director in Panasonic who has responsibility for developments of the fundamenta circuits and device technologies for a leading edge process VLSI's for world-wide major electronic companies. I sincerely wish to express m gratitude for a variety of assisting in my research from the Unite States, Taiwan and a domestic companion. I will do my best on th research so that I can repay the kindness to the people as soon a possible.					

Name 氏名	Koji Toda	Title 職位		Associate Professor			
Major 専門分野	Software Engineering						
Master's Program 修士課程	Engineering	Engineering					
Doctor's Program 博士課程	Engineering						
e-mail	toda@fit.ac.jp	URL	www.fit.a	c.jp/~toda/			
Research introduction 研究紹介	My research area i software engineerin In large project, s estimation of the to Therefore, high a estimated and actua So, my research n software developm	search area is effort estimation for software project management in re engineering. ge project, schedule and cost management is indispensable, and tion of the total development effort is the basis of such management. ore, high accuracy effort estimation (small difference between ted and actual effort) is needed. y research main topic is statistical model based estimation and re development data analysis using statistics as sub topic.					
Publication list 論文リスト	Yukasa Murakami, Masateru Tsunoda, and Koji Toda, ``An Empirical Evaluation of the Tobit Model on Software Defect Prediction," In Proc. of Applied Computing and Information Technology (ACIT 2016), pp.196- 201, December 2016. Kwabena E. Bennin, Koji Toda, Yasutaka Kamei, Jacky Keung, Akito Monden and Naoyasu Ubayashi, ``Empirical evaluation of cross-release effort-aware defect prediction models," In IEEE International Conference on Software Quality, Reliability and Security (QRS) pp.214-221 2016. Masateru Tsunoda, Koji Toda, Kyohei Fushida, Yasutaka Kamei, Meiyappan Nagappan, and Naoyasu Ubayashi, ``Revisiting Software Development Effort Estimation Based on Early Phase Development Activities," In Proc. of Working Conference on Mining Software						
Other academic activities / その他の学術活動	Program committee member: 3rd IEEE/ACIS Int'l Conf. on Big Data, Cloud Comp., and Data Science E (BCD), 2017-2018 4th Int'l Conf. on Applied Comp. & Information Technology (ACIT 2016)						
Remark / 備考							

Name 氏名	Yutaka Yamaguti	Title 職位		Assistant Professor		
Major 専門分野	Computational Neu	iroscienc	ce/ Comple	x systems		
Master's Program 修士課程	Computer Science	and Eng	ineering			
Doctor's Program 博士課程						
e-mail	y-yamaguchi@fit.ac.jp	URL	www.fit.ac	.jp/~y-yamaguchi		
Research introduction 研究紹介	Computational neu understand the prim nervous systems. T developments of neuroscience from of non-linear dynar Recent research top - Neural network m - Analysis of brain - Computational mo - Applications of re - Pattern formation	putational neuroscience is the theoretical study of the brain used to rstand the principles and mechanism of information processing of the ous systems. The progress of this research area has influenced the lopments of artificial intelligence. We study computational oscience from the viewpoint of complex system study, such as theory n-linear dynamical systems. nt research topics are ural network model of functional differentiation in the brain dysis of brain signals nputational modeling of hippocampus blications of reservoir computing tern formation in tribology.				
Publication list 論文リスト	Ichiro Tsuda, Yutaka Yamaguti, Hiroshi Watanabe, Self-Organization witConstraints—AMathematical Model for Functional DifferentiationEntropy, 18(3), 74 (2016)Yutaka Yamaguti, Ichiro Tsuda, Mathematical Modeling for Evolution ofHeterogeneous Modules in the Brain, Neural Networks, 62, 3-10 (2015)Yutaka Yamaguti, Ichiro Tsuda, Yoichiro Takahashi, Information flow iheterogeneously interacting systems, Cognitive Neurodynamics, 8(1), p17-26 (2014)Hiromichi Tsukada, Yutaka Yamaguti, Ichiro Tsuda, Transitory memorretrieval in a biologically plausible neural network model, CognitivNeurodynamics, 7:(5), pp. 409-416 (2013)Yutaka Yamaguti, Shigeru Kuroda, Yasuhiro Fukushima, Minoru Tsukadaand Ichiro Tsuda, AMathematical Model for Cantor Coding in th					
Other academic activities / その他の学術活動						
Remark / 備考						

Name 氏名	Hiroshi Maeda	Title 職位		Professor			
Major 専門分野	Numerical analysis electromagnetic wave						
Master's Program 修士課程	Communication and Information Networking						
Doctor's Program 博士課程	Intelligent Information System Engineering						
e-mail	hiroshi@fit.ac.jp						
Research introduction 研究紹介	 Development of numerical analysis technique for composite media with large gap of material constants Design and application of photonic crystal and periodic structure for signal processing in optical wave/microwave Experimental study of photonic crystal and periodic structures in microwave frequency range 						
Publication list 論文リスト	 microwave frequency range BOOK: H. Maeda, "Numerical Technique for Electromagnetic Field Computation Including High Contrast Composite Material", as Chapter 3 of book entitled"Optical Communications", pp.41-54, edited by Narottam Das, InTech Open Access Publisher, ISBN 978-953-51-0784-2(2012 Oct.). JOURNALS: H. Maeda, "Simulation of Soliton Propagation in Slab Waveguide by Frequency Dependent FDTD Method", International Journal of Computer Systems Science and Engineering, Vol.25, No.2, pp.9-16(2010, Mar.) Y. Zhang, H. Terashima, H. Maeda, "Study on X-Shaped Photonic Crystal Waveguide in 2D Triangular Lattice for WDM System", Journal of Mobile Multimedia, Vol.8, No.2, pp.105-113(2012, June) H. Maeda, "Four-branching waveguide in 2D photonic crystal structure for WDM system", Journal of Space-Based and Situated Computing, Vol.3, No.4, pp.227-233(2013, Dec.) H. Maeda, H. Chen, K. Tomiura, K. Yasumoto, "Numerical and experimental study on confinement in Y-shaped post wall branching waveguide", Journal of Mobile Information Systems, Vol.10, No.2, pp.217-228(2014, March) PROCEEDINGS: H. Chen, Y. Bao, J. Jin, H. Maeda, "Propagation Constant Measurement in Two Dimensional Post Array Waveguide with Triangular Lattice by Metallic Pillars", Proc. of MAPWC-2014, pp.357-361 (2014, Nov.) J. Jin, Y. Bao, H. Chen, H. Maeda, "Numerical Analysis of Y-shaped Branch Waveguide in Photonic Crystal Structures and Its Application", Proc. of MAPWC- 2014, pp.362-365 (2014, Nov.) Y. Bao, H. Chen, J. Jin, H. Maeda, "Experimental Study on Crank-shaped Waveguide in 2D Post Array", Proc. of MAPWC-2014, pp.366-370 (2014, Nov) H. Maeda, Y. Bao, "Numerical Analysis of Cavitiesin Photonic Crystal Waveguide for Filtering", Proc. of BWCCA-2015, to be published, (2015, Nov.) Y. Bao, H. Maeda, N. Nakashima, "Studies on Filtering Characteristics of X- Waveguide for Filtering", Proc. of BWCCA-2015, to be published, (2015, Nov.)						
Other academic activities / その他の学術活動	Member of OSA, IEI	CE (電子	情報通信学	之会)Japan, and JSA	Ý P(応用物理学会)		
Remark / 備考	KAKENHI No. 15K06043, Grant-in-Aid for Scientific Research (C) by Japan Society for the Promotion of Science (JSPS) in 2015-2017.						

Name 氏名	Shuichi INOKUCHI	Title 職位		Professor	00	
Major 専門分野	Theory and application computer science					
Master's Program 修士課程	Systems Managemen	t Enginee	ring			
Doctor's Program 博士課程						
e-mail	inokuchi@fit.ac.jp	URL	www.1 hi	11111 201 1		
Research introduction 研究紹介	 Mathematical Analysis of Discrete Transition Systems. I am interested in and researching properties of cellular automata or algebraic systems such as groups and monoids. In particular, we analyze the reversibility and continuity of the global transition function of cellular automata and the properties related to composition of cellular automata using relation theory, topological space theory, mathematica logic, and so on. Application of Cellular automata and Discrete Transition Systems. Simulation of natural and social phenomena Generation of similar patterns of natural and artificial ones 					
Publication list 論文リスト	 Commutativity o Automata on Mo Computing, Vol.1 Reversibility of C Informatics and C Propositional Lo Cellular Automat Cellular Automat Cellular Automat S A Formulation of Groups, IEICE tra pp.448-454 (2014) 	f Compos noids,Inte 2, No.1, p CA-150 w Cybernetic gic and Ce ta,Vol.12, ta Associa Systems,E f Composi ansactions 4).	ition of rnationa p.188-2 ith Sym cs,Vol.5 ellular A No.1-2, ted with 299.D, 3 tion for on Info	some n-Dimensio al Journal of Netw 203(2022) metry Local Struc 3, No.5, pp.1-7(20 automata on Monc pp.27-45(2017) n ∑-Algebras,IEIC 5, pp.588-597(2010 Cellular Automat prmation and Syste	nal Cellular Forking and Eture,Bulletin of 21) bids,Journal of E Transactions on 6) a on ems,E97.D, 3,	
Other academic activities / その他の学術活動						
Remark / 備考						

Name 氏名	SONG, Yu	G, Yu Title 職位 Professor					
Major 専門分野	Operations Researc						
Master's Program 修士課程	System Management						
Doctor's Program 博士課程	Intelligent Information System Engineering						
e-mail	song@fit.ac.jp	song@fit.ac.jp URL www.fit.ac.jp/~song					
Research introduction 研究紹介	Main research interest lies in the field of operations research and its application in business and social science for decision- making. Especially the following topics: • Staff scheduling Problem • Numerical Analysis and Optimization • Supply Chain Management • Quantitative Finance						
Publication list 論文リスト	 C. Wang and Y. Song, "An optimization model for vehicle routing in urban cold chain logistics", <i>International Journal of Modeling and Optimization</i>, Vol. 12, pp. 76-81, 2022. C. Li and Y. Song, "Predicting Direction of Individual Stock Price Movement Using a Hybrid Model", Journal of Economics, <i>Business and Management</i>, Vol. 7, pp. 60-64, 2019. M. Qiu and Y. Song, "Predicting the Direction of Stock Market Index Movement Using an Optimized Artificial Neural Network Model", <i>PLos ONE</i>, Vol. 11, No. 5, pp 1-11, 2016. J. Pi, Y. Song, S. Yang and F. Ju, "A Study of Influence upon Inflation Posed by Volatility of Housing Price", <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i>, Vol. 20, 2016. M. Qiu, Y. Song and F. Akagi, "Application of Artificial Neural Network for the Prediction of Stock Market Returns: The Case of the Japanese Stock Market", <i>Chaos, Solitons & Fractals</i>, Vol. 85, pp. 1-7, 2016. Y. Song and M. Hasama, "Some Observations on Resource Allocation in Assembly-like Queueing Networks via Simulation Approach", <i>International Journal of Materials, Mechanics and Manufacturing</i>, Vol. 2, 146-149, 2014. Y. Song, "The Optimal Service Policies in an M/G/1 Queue with Consecutive Vacations", <i>International Journal of Modeling and</i> 						
Other academic activities / その他の学術活動							
Remark / 備考							

Name 氏名	Takuya Tajima	Title 職位 Professor		Professor			
Major 専門分野	Industrial Engineerin						
Master's Program 修士課程	Systems Management Engineering—						
Doctor's Program 博士課程	Electrical Engineering and Computer Science						
e-mail	t-tajima @fit.ac.jp URL www.fit.ac.jp/~t-tajima						
Research introduction 研究紹介	 (1) Attribute Classification Method for Pedestrians Using Plantar Pressure Value This study aims to develop and improve an attribute classification method for pedestrians using plantar pressure value. Now, many retail businesses use some methods for collecting customers' information. However, these methods have some problems. One of the problems is instability for collecting data of customers' information. The member's card can not cover all customers. Moreover, manual classification includes dispersion by individual difference. Using pressure sensors has advantages. One of the advantages is that the pressure sensor does not occur a violation of object person's privacy, because pressure values from the sensors can not identify individual from a large indefinite number. (2) Interior Behavior Identification System Using Pressure Distribution Sensors This study aims to develop an indefinite complaint detection support system using pressure distribution sensors. In this study, the system detects the indefinite complaint by everyday physical movement states in a person's headed.						
Publication list 論文リスト	 (1) Junjirou Hasegawa, Takuya Tajima, Takehiko Abe, Haruhiko Kimura: Development Age Groups Estimation Method Using Pressure Sensors Array, Information Technology Convergence, Vol253 No.2 pp.847-854 (2013). (2) Takuya Tajima, Takehiko Abe, Haruhiko Kimura: Development of Interior Behavior Identification System Using Pressure Distribution Sensors, The Japan Society for Welfare Engineering, Vol.14 No.1 pp.13-21 (2012) (3) Takuya Tajima, Takehiko Abe, Haruhiko Kimura: POS Data Analysis and Considerations for Improvement of Sales: Japan Society for Production Management, Vol.19 No.2 pp.91-98 (2013) 						
Other academic activities / その他の学術活動							
Remark / 備考							

Name 氏名	Hiroyuki Fujioka Title 職位 P		Professor				
Major 専門分野	Control Theory ar						
	Technology	Technology					
Master's Program 修士課程	Systems Manageme	Systems Management Engineering					
Doctor's Program 博士課程	Intelligent Informat	tion System Engine	eering				
e-mail	fujioka@fit.ac.jp	1120					
Research introduction	In our laboratory, curves and surfaces. passes through or ne possible. For such p well as the computa viewpoints. Moreover, we hav various applications include the constru learning using aug digital font which ha fig), etc.	we mainly have st Such a basic proble ear the given points problems, we have a tional algorithms fr we applied the desi is in the field of info ction of cursive cha- ment reality (AR) ave been used in ma	udied problems of d om is to design a cur , while the curve is developed effective om mathematical a gn method of curv rmation technology aracters (left fig), 1 (middle fig) and d ny electronic device	optimally designing rve (or surface) that smooth as much as design methods as nd control theoretic res and surfaces to 7. Such applications human calligraphic ata compression of e.g. tablet pc (right			
研究紹介	ちょう ひん い ういしょう いう ういしょう ひょうしょう ういう ちょう こう しょう ひょうしょ		$ \begin{array}{c} 0 \\ -50 \\ -100 \\ -150 \\ -200 \\ -250 \\ -300 \\ -350 \\ -400 \\ -450 \\ 0 \\ -200 \\ -200 \\ -200 \\ -200 \\ -400 \\ -200 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -200 \\ -40 \\ -200 \\ -200 \\ -40 \\ -200 \\ -200 \\ -40 \\ -200 \\ -200 \\ -40 \\ -200 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -200 \\ -40 \\ -200 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -40 \\ -200 \\ -40 \\ -20$				
Publication list 論文リスト	 H. Fujioka, H. Kano, and C. F. Martin Constrained Smoothing and Interpolating Spline Surfaces using Normalized Uniform B-splines, appeared to Communications in Information and Systems. H. Fujioka and H. Kano Compression of Digital-Ink with Pen Slip Using Optimal L1 Smoothing Splines, to be published in the Proceedings of 44th ISCIE International Symposium on Stochastic Systems Theory and Its Applications, Okinawa, Japan, Nov. 1-2, 2013. H. Fujioka, H. Kano, H. Nakata and H. Shinoda Constructing and Reconstructing Characters, Words and Sentences by Synthesizing Writing Motions, IEEE Trans. Systems, Man and Cybernetics, Part A, Vol.36, No.4, pp.661-670, 2006. 						
Other academic activities / その他の学術活動	 Grants-in-Aid for Scientific Research for Young Researchers (B), Apr. 2013-Mar.2016 Joint Research with a Japanese company, project was on trajectory planning of large-size robot, Sept. 2010-Aug.2013 						
Remark / 備考	We now have 3 master course students (2 Japanese + 1 Thailand person From this September, a Thailand master course student will be come Moreover, an undergraduate Chinese student in our lab is going to mast course from April, 2015.						

Name 氏名	Kulla Elis	Title 職位	Associate				
			Professor				
Major 専門分野	IoT-based Data Forward	252					
Master's Program 修士課程	Systems Managemen		1 Alle				
Doctor's Program 博士課程	—Intelligent Informa	SH S					
e-mail	kulla@fit.ac.jp						
Research introduction 研究紹介	 My research is focused on wireless sensor networks (WSN) in terrestria environment and delay-tolerant networks (DTN) in underwater environment Recent network applications, such as IoT, connected cars, and MaaS generate collect, and process a larger amount of data (Big Data). By combining a lightweight and power-saving protocol such as MQTT (Message Queueing Telemetry Transport), we can forward these data to entities which can consume them in real-time (IoT), or save them for future analysis and intelligent mode training. Specifically, we are considering the following topics in my laboratory. (1) Implementing an experimental environment for wireless multi-hop communication, where we can develop and evaluate different protocols (2) Develop a publish / subscription system for large-scale IoT data, using MOTT protocol. 						
	(3) Develop a combined Mobility as a Service (MaaS), blockchain integrator system that can manage transactions, identity and smart contracts						
	 Elis Kulla, Makoto Ikeda, Tetsuya Oda, Leonard Barolli, Fatos Xhafa and Aleksander Biberaj, "Experimental results from a MANET testbed in outdoor bridge environment considering BATMAN routing protocol", Computing, Vol. 95, No. 10-11, pp. 1073-1086, May 2012. 						
Publication list	2. E. Kulla, "Evaluating the effect of static components in MANET by simulations", Journal of High Speed Networks, Vol. 21, No. 4, pp. 273-284, 2015.						
論文リスト	3. E. Kulla, "Destination-Aware Focused Beam Routing (D-FBR): A Routing Protocol for Underwater Wireless Sensor Networks", Journal of High Speed Networks, Vol. 28, No. 1, pp. 1-11, March 2022.						
	 E. Kulla, "A Deep Q-Network with Experience Optimization (DQN-EO) for Atari's Space Invaders and Its Performance Evaluation", International Journal of Distributed Systems Technologies, Vol. 13, No. 1, pp. 1-13, March 2022. 						
Other academic activities / その他の学術活動	Actively take part and organize International Conferences, all over the world.						
Remark / 備考	I arrived in FIT in April 2022, so my laboratory is relatively new.						

Name 氏名	Minoru Kobayashi	Title 職位	Associate Professor					
Major 専門分野	Production Managem	Production Management and Industrial Engineering						
Master's Program 修士課程	Systems Management Engineering							
Doctor's Program 博士課程								
e-mail	kobayashi@fit.ac.jp UR L www.fit.ac.jp/~kobayashi/							
Research introduction 研究紹介	Our laboratory have studied problems related to production management and/or business management especially production scheduling. Present main research interest is accelerating of computation for the Lagrangian Decomposition and Coordination Method for a Multi-Item Multi-Process Dynamic Lot size Scheduling Problem. Key words: large scale optimization, LDC method, mathematical programming, business informatics, data analysis, management engineering							
Publication list 論文リスト	 Kenji Muramatsu, Aditya Warman, Minoru Kobayashi, A Near-Optimal Solution Method of Multi-Item Multi-Process Dynamic Lot Size Scheduling Problem, JSME Int. J. Ser. C-Mech. Syst. Mach. Elem. Manuf., Vol. 46, No. 1, pp.46-53, March 2003. Minoru Kobayashi, Kenji Muramatsu, An Extension of Job Shop Scheduling Problem, Journal of Japan Industrial Management Association, Vol. 56, No. 4, pp.246-255, October 2005. Minoru Kobayashi, Kenji Muramatsu, A Scheduling Benchmarking Problem that Reflects Today's Production Environments, Journal of Japan Industrial Management Association, Vol. 64, No. 3, pp. 409-419, October 2013. Minoru Kobayashi, Suppression of Oscillations in Solution on Lagrangian Decomposition and Coordination Method -A Case of a Multi-Item Single- Process Unrelated Multi-Machine Dynamic Lot Size Scheduling Problem-, International Journal of Japan Society for Production Management, Vol. 6, No. 							
Other academic activities / その他の学術活動	Grants-in-Aid for Scientific Research (C) (KAKENHI), Apr. 2017- Mar. 2020 Director, The Japan Society for Production Management (2008-) Director, Scheduling Society of Japan (2011-2015, 2019-)							
Remark / 備考								

Name 氏名	Jing Fu	Title 職位	Associate Professor			
Major 専門分野	Game Theory a					
Master's Program 修士課程	System Manage	3				
Doctor's Program 博士課程	N/A					
e-mail	j.fu@fit.ac.jp					
Research introduction 研究紹介	Main research interest lies in the field of game theory an operations research together with its application in economics an social science. Especially the following topics: • Discounted Stochastic Game • Network Formation Game • Systemic Risk • Data Envelopment Applysis (Comp)					
Publication list 論文リスト	 Fu, J., F. P equilibrium Application Fu, J., H. Fu in 2-player i Central Euro Fujii, H., J. tax strategy tax in K Cit vol. 71, pp. Page, F. an point proble Theory and Fu, J., F. Pa points, and games". Pro Application Fu, J. (2018 intermediate China". Cer pp. 861-885 Fu, J. (20 	 Data Envelopment Analysis (Game) 1. Fu, J., F. Page and J-P Zigrand (Forthcoming). "Layered requilibrium dynamics, and stable coalitions", Dynamic Ga Applications. 2. Fu, J., H. Fujii and Y. Song (2022). "Existence of pure Nash in 2-player information diffusion games with strict public pref Central European Journal of Operations Research. 3. Fujii, H., J. Fu and R. Kobayashi (2021). "A proposal for h tax strategy by data envelopment analysis – case study of the h tax in K City-". Journal of Japan Industrial Management As vol. 71, pp. 149-172. 4. Page, F. and J. Fu (2020). "K-Correspondences, USCOs, a point problems arising in discounted stochastic games". Fir Theory and Applications, vol. 2020, No. 14, 28 pages. 5. Fu, J., F. Page and J-P Zigrand (2019). "Spheres of influenc points, and endogenous systemic risk in dynamic network fragmes". Proceedings of Asian Conference of Management S Applications, vol. 2019, pp. 34-46. 6. Fu, J. (2018). "Two-stage Data Envelopment Analysis with ur intermediate measures: an application to air quality improv China". Central European Journal of Operations Research, v pp. 861-885. 7. Fu, J. (2017). "Information pooling game in multi optimization". Contributions to Game Theory and Management Superior Statement Science Science				
Other academic activities / その他の学術活動	Research Associates in Systemic Risk Centre, London School of Economics and Political Science					
Remark / 備考						

Name 氏名	Hiroshi Takenouchi	Title 職位		Assistant Professor		
Major 専門分野	Affective information					
Master's Program 修士課程	Systems Managemen	(
Doctor's Program 博士課程						
e-mail	h-takenouchi@fit.ac.jp					
Research introduction 研究紹介	 We develop systems that enables people to enrich their daily life by analyzing and understanding human Affective (Kansei, 感性) information. Our research fields are various such as affective engineering, evolutionary computation, neural network, fuzzy logic, human interface, preference analysis and so on. Combining these technologies, we are striving to research daily, with the goal of developing a human-friendly computer system, a computer that explores people's tastes, and a system that users can use. Examples of our research themes are as follows: 1) Interactive evolutionary computation systems This system creates objects that user preferred with user affective information and evolutionary computation technique. 2) Kansei retrieval agents model This model learns user preferences to a specific objects using fuzzy reasoning. 					
Publication list 論文リスト	 Hiroshi Takenouchi, Masataka Tokumaru, "Interactive Evolutionary Computation System with User Gaze Information", International Journal of Affective Engineering, Vol.18, No.3, pp.109-116, 2019. Hiroshi Takenouchi, Masataka Tokumaru, "Kansei Retrieval Agents Model with Fuzzy Reasoning", International Journal of Fuzzy Systems, Vol.19, Issue.6, pp.1803-1811, 2017. Minatsu Fujisaki, Hiroshi Takenouchi, Masataka Tokumaru, "Developing Female Clothing Coordination Generation System Using Eye Tracking Information", Human-Computer Interaction. Interaction Technologies Volume 10903 of the series Information Systems and Applications, incl. Internet/Web, and HCI (the proceedings of HCI International 2018), pp.247-257, 2018. Ryota Shiraishi, Hiroshi Takenouchi, Masataka Tokumaru, "Optimization of Fuzzy Rules in Kansei Retrieval Agent with Fuzzy Reasoning", Joint 10th International Conference on Soft Computing and Intelligent Systems and 19th International Symposium on Advanced Intelligent Systems (SCIS&ISIS2018), pp.449-454, 2018. 					
Other academic activities / その他の学術活動						
Remark / 備考						