Faculty / School	Department	Research Theme	Academic Advisor
Faculty of Science		Analysis of TRPA1 Sequences Among Anolis Lizards from Different Thermal Habitats	Prof. Masakado KAWATA
		Differences in photosystem repair rates between Arabidopsis thaliana ecotypes	Prof. Kouki HIKOSAKA
	D. L.	Bioturbation in Higashi-Yachi tidal flat in Sendai bay	Prof. Jotaro URABE
	Biology	Actin Destabilization Induces Ciliogenesis	Prof. Kensaku MIZUNO
		Drosophila melanogaster capability of expectation learning avoidance of paired odors with increasing and decreasing shock voltage	Prof. Hiromu TANIMOTO
		The afferent inputs from perirhinal cortex to the deep layers of entorhinal cortex	Assoc. Prof. Ken-Ichiro TSUTSUI
	Chemistry	Development for the effective crosslink forming Threose Nucleic Acid (TNA)	Prof. Fumi NAGATSUGI
	Geoenvironmental	Tsunami Mitigation Before and After 2011 Tohoku-oki Tsunami: Lessons Learned for Future	
	Science	Tsunami Mitigation in Indonesia	Assoc. Prof. Kazuhisa GOTO
	Mathematics	Chow's Lemma and its Proof	Prof. Masaki HANAMURA
		Kalmen Filter and its Application	Prof. Masayoshi TAKEDA
		The Tangent Bundle as a Manifold	Prof. Masashi ISHIDA
	Physics	Cycle of Pore-formation of Phospholipid Vesicles by Alternating Temperature	Prof. Masayuki IMAI
		Repeatable Pore-formation of Phospholipid Vesicles by Alternating Temperature	FIOI. Wasayuki iiviAi
		Reflection spectra for multilayer system	
		Optical Properties of Multilayer Dielectric Media: Electric Field and Graphene Absorption	Prof. Riichiro SAITO
		Enhancement in N-layer dielectric media	
		FABRICATION OF ALL-SOLID THIN FILM ELECTROCHROMIC DEVICE USING WO3	Prof. Junichi KAWAMURA
	Applied Chemistry,	Dielectric Response of Thin Film and Single Crystalline Organic-Inorganic Perovskite	Prof. Tomoyuki AKUTAGAWA
	Chemical	hydrocarbon extraction of algae culture with microbubbles	Prof. Hiroshi INOMATA
	Engineering and	Measurement of Supercritical Carbon Dioxide Solubility in Biomass-soluble Ionic Liquid and	Prof. SMITH Richard Lee Jr.
	Biomolecular	Modeling with Sanchez-Lacombe Equation of State	
	Engineering	Conversion of Glycerol via Hydrogenolysis with Ir-ReOx/SiO2-Catalysts	Prof. Keiichi TOMISHIGE
	Lingiliteering	Conversion of Tri-, Diols via Hydrogenolysis with Ir-ReOx/SiO2	
		Adapting to Limited Surface Plots: Small and Compact Architecture in Japan and it's Input	Prof. Taro IGARASHI
	Mechanical and Aerospace Engineering	on the Venezuelan Barrios Case	110111010101011
		TOPOLOGY OPTIMIZATION –Running on MATLAB® 2D and 3D models.	. 5 () "
		Topology Optimization (Running on MATLAB®) & Origin and Development of Japanese	Assoc. Prof. Junji KATO
		Architecture	D 6 . 0.4 - 1.1 . 1/. 0.7 0.0 4.0
		Evaluation of Resistant of Cement - Treated Tailing Soil Agianst Erosion and Liquefaction	Prof. Motoki KAZAMA
		Event of the 1999 Vargas Flood: A Comparison between the Disaster Strategies in Japan	Prof. Osamu MURAO
		and Venezuela EVENTS OF THE 1999 VARGAS FLOOD: COMPARISON IN THE USE OF PUBLIC SPACES AS A	
		DISASTER STRATEGY IN JAPAN AND VENEZUELA	
		Evaluating system parameters of MDOF-Systems with regard to displacement amplitude	
		Influence of vibration amplitude on system parameters in constructed systems	Prof. Masato MOTOSAKA
		Deep Learning in Artificial Neural Network to Visually Identify Handwritten Numbers	Prof. Shigeo SATO
	Electrical,	Program Verification of OAuth 2.0	Prof. Eijiro SUMII
	Information and	In-Body/Out-Body Communication for Denture	Prof. Noriharu SUEMATSU
	Physics Engineering	Detecting and Classifying Icons For Indoor Navigation	Prof. Shinichiro OMACHI
School of	Information and Intelligent Systems	Agent-based Human Activities of Daily Living Management Framework for IoT System	Prof. Tetsuo KINOSHITA
Engineering		IMAGE FILTERING AND ENHANCEMENT	Doef Malacta VOCIUZAVA
		Removing Periodic Noise from Image in Frequency Domain	Prof. Makoto YOSHIZAWA
		Design and Optimization of IC V6 Engine	Prof Konii NAKAMURA
		Analysis and Optimization of SPM Gear Geometry/Topology	Prof. Kenji NAKAMURA
		Auditory Search Asymmetry Between Pure Tone and Narrow Band Noise on Horizontal and	Prof. Yoiti SUZUKI
		Vertical Axises	FIOI. TOILI 30ZOKI
		Artificially Generated Text Samples for Optical Character Recognition Training	Prof. Shinichiro OMACHI
		Artificially Generated Text Samples for Optical Character Recognition Training	
		Translating Japanese to Indonesian Traditional Javanese Characters Using Image as its	
		Concurrency in SML# and Go	Prof. Atsushi OHORI
		Static Representation of Environment Variables using SML# JSON Support	5 (7 ()
		3D object reconstruction using stereoscopic images	Prof. Takafumi AOKI
		Effect of friction variance on octopod gait	Prof. Akio ISHIGURO
		Digital Image Filter Design and Its FPGA implementation	Prof. Takahiro HANYU
		A Head-Tracked Navigation System for Virtual Reality	Assoc. Prof. Masanori NATSUI Prof. Yoshifumi KITAMURA
		Synthesis of Superconducting Polycrystalline Bulk Samples of T'-La2-x-yYyMxCuO4 (M=Sr,	
		Trial of the Synthesis of Superconducting Bulk Samples of T'-La2-yYyCuO4	Prof. Yoji KOIKE
		Battery Control Method for Compensating InertiaReduction Caused by RES Penetration	Prof. Hiroumi SAITOH
		Laser Cooling of Rubidium Atoms by Filter-Stabilized Diode Laser System	Prof. Keiichi EDAMATSU
		Species Sound Recognition	Prof. Akinori ITO

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Faculty / School	Department	Research Theme	Academic Advisor
	Information and Intelligent Systems	Auditory Search Asymmetry Between Pure Tone and Narrow Band Noise on Horizontal and Vertical Axises	Prof. Yoiti SUZUKI
		Syntax of Natural Languages in Ocaml Translating Syntax for Language Learning	Prof. Eijirou SUMII
		Adaptive Filters: LMS, NLMS and RLS comparison NONPAMETRIC SIGNAL FOURIER-BASED POWER SPECTRUM ANALYSIS AND WINDOW COMPARISON	Prof. Masayuki KAWAMATA
	Materials Science and Engineering	Microstructural Examination of Corner AdStir Fillet Stationary Shoulder Friction Stir Welding in a High-Strength Aluminum Alloy	Prof. Hiroyuki KOKAWA
		Effect of Phosphorous on Corrosion Behavior of Austenitic Cast Stainless Steel	Prof. Izumi MUTO
		Precipitation hardening behavior of Cu-Ti Alloy	Prof. Kyosuke YOSHIMI
		Electrons Anisotropic Magnetic Field	Prof. Junsaku NITTA
		Microstructural Observations of TRIP Steel after Friction Stir Welding	Prof. Yutaka SATO
		Preparation of visible light absorbing thin films with flat wavelength dispersion	Prof. Hitoshi TAKAMURA
	Mechanical and Aerospace Engineering	DNA Sequence Design for Reaction-Diffusion Control Optimization by Meta-heuristic	Prof. Satoshi MURATA
		Economical Analysis of Low CO2 Emission Power Generation System Utilizing Methane	Prof. Shigenao MARUYAMA
		Dynamic characteristic analysis of micro-satellite with a propulsion system Satellite Formation system and Control	Assoc. Prof. Toshinori KUWAHAF
		Simulations of a Wing using Finite Element Method Aeroelastic Simulation of a Wing	Prof. Kanjuro MAKIHARA
School of Engineering		Optimization of simulation of the PA-10 robotic manipulator and benchmarking through the simulation of 3D motion paths derived from 2D vector graphics	Assoc. Prof. Shogo ARAI
		Drug Delivery using Multilayered Microsheets	Assoc. Prof. Hirokazu KAJI
		Creep-Fatigue Damage-Induced Change in the Micro Texture of the Modified 9Cr-1Mo Steel Change in the micro texture of the modified 9Cr-1Mo steel used for fast breeder reactorunder operating conditions	
		Gripping Robot Tumble Stability on a Slope Dynamics simulation and gait control of a rock-climbing robot	Prof. Kazuya YOSHIDA
		Estimation of Center of Mass displacement Using Sensor Shoe Measurement of Three directional Ground Reaction Force using Sensor Shoes	Assoc. Prof. Takeshi YAMAGUCI
		Topology Optimization with the help of 88 line code	Prof. Shigeru OBAYASHI
		SPH simulation of cavitation bubbles interacting with one another	Assoc. Prof. Seiichiro IZAWA
		Preparetioon of solid electrolyte films by pulsed laser deposition	Prof. Koji AMEZAWA
		Percolation electrical properties using metal nanoparticles composite Measurement using thermal sensors of the heat released by the reaction between proteins	Prof. Takahito ONO
		and enzymes Beverage (Juice) Plant Simulator Experimental Study of Influence of Message Length on Communication Accuracy using Beverage Plant Simulator	Prof. Makoto TAKAHASHI
		Real-time Control of a Manipulator Improving Feedback and Harmony between a Robot Based Instructor and Human Student Spring Assisted Knee Exoskeleton System (SAKES)	Prof. Kazuhiro KOSUGE
	Applied Biological Chemistry	Lane Line Detection	Prof. Koichi HASHIMOTO
Faculty of Agriculture		The Effect of Biotin Treatment on Testosterone and Progesterone Productions in testis-	Prof. Michio KOMAI
		derived cells Synthetic studies on Vancomycin fluorescent derivative Synthetic studies on new Vancomycin derivatives	Prof. Hirokazu ARIMOTO
		Chronological aging and the effects of oxidative stress on Saccharomyces cerevisae	Assoc. Prof. Masahiko HARATA
	Applied Bio- Sciences	Oxidative stress mediated by incorporation of H2A variant Htz1 in S. cerevisiae	Assoc. Prof. Masahiko HARATA
		Analysis of Supply Chain Performances of Processed Soybean Products in Japan	Prof. Fusao ITO
		Seasonal change of monstrilloid copeods in Izu-Oshima Island	Prof. Yoshinari ENDO
		Vivianite crystallization in the paddy field soils of Aizu basin and Awaji Island	Prof. Masami NANZYO