Themes of Individual Research Training (JYPE) 2017-2018

Faculty/School	Department	Research Theme	Academic Advisor
	Department	Structural analysis and growing of (NH4)2SnCl6 single crystal	Academic Advisor
Faculty of Science	Physics	The crystal structure of (NH4)2 Sn Cl6	Prof. KIMURA, Hiroyuki
		Electron transport of three-dimensional topological insulators as thermoelectric materials	Prof. TANIGAKI, Katsumi
	Astronomy and Geophysics	Atmospheric Hydrogen Escape on Mars: Role of High-Altitude Water and Transport Processes in a Photochemical Model	Prof. KASABA, Yasumasa
		Efficient solver of self-consistent polarizable Molecular Dynamics Simulation	Prof. MORITA, Akihiro
		Copper-Catalysed [1,3]-Alkoxy Rearrangement in Polyaromatic Compounds	Prof. TERADA, Masahiro
	Chemistry	Synthesis and biological analysis of a plant hormone derivative which could uncouple growth and defense in planta	Prof. UEDA, Minoru
		Multi Functional Molecular Conductor	Prof. YAMASHITA, Masahiro
	Earth and Planetary Materials Science	Holocene sea-surface temperature variations deduced from the geological and geochemical records of coral reefs from Kikai-jima (Ryukyu Islands, Japan)	Prof. IRYU, Yasufumi
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	Biology	The Effect of Scopimera globosa and Ilyoplax pusilla on Diatom Abundance Functional analysis of the relation between PLEKHG4B and Solo in actin cytoskeletal remodeling	Prof. URABE, Jotaro Prof. OHASHI, Kazumasa
		Neurobiology	Prof. SUGIMOTO, Asako
	Integrative Life Sciences	Behavioral responses of Cladonema pacificum jellyfish when exposed to different salinity concentrations	Prof. TANIMOTO, Hiromu
		Analysis of anatomy and aversive behavior of the jellyfish Cladonema pacificum	Prof. TAMINOTO, Hiloffid
	integrative Life Sciences	Neuroscience - Microelectrode	Prof. TSUTSUI, Ken-Ichiro
		Neuroscience	
		Modelling Depression in Rodents: Social Defeat and ACTH	
	Ecological Developmental Adaptability Life Sciences	Effects of cold-acclimation in various Arabidopsis thaliana ecotypes exposed to low temperature and high-light	Prof. HIKOSAKA, Kouki
	Molecular and Chemical Life Sciences	Functional analysis of the relation between PLEKHG4B and Solo in actin cytoskeletal remodeling	Prof. OHASHI Kazumasa
		Experimental Study of Semi-active Piezoelectric Structural Damping by Synchronized Switching on 2-degree-of-	
		freedom System	Assoc. Prof. MAKIHARA, Kanjuro
		Semi-active Piezoelectric Structural Damping by Synchronized Switching Clarifying the mechanics of friction between Aluminum and Iron surface during reciprocating motion with oil	
		Clarifying the mechanics of friction between Aluminum and Iron surface during reciprocating motion with oil lubricant	Prof. ADACHI, Koshi
		Human-Computer Interaction	
	Mechanical and Aerospace Engineering	Cycling Wheelchair and VR Telepresence Coaching Assistance	Prof. HIRATA, Yasuhisa
		Applying a VR environment to cycling wheelchair	
		Measurement of Fin Performance and Fin Efficiency in Heat Sinks	Prof. KOMIYA, Atsuki
		Manipulator Kinematics	
		Pose Estimation for Randomly Piled Up Industrial Pars	Prof. KOSUGE, Kazuhiro
		Manipulator Control	
		Mars Helicopter Design Concept Mars Helicopter: Study on batteries	Prof. NAGAI, Hiroki
		Conversion Efficiency Improvement of Cold Spray Fabricated Dye-Sensitized Solar Cell by Optimizing Dye Proportion	Prof. OGAWA,Kazuhiro
		The effect of wheel size on the terramechanical behaviour of small-sized rover	Prof. YOSHIDA, Kazuya
		Digital Logic Design with Verilog HDL	Prof. ENDOH, Tetsuo
		Positive/Negative Facial Expression Recognition in Video with FER Corpus and ENTERface Database	Prof. ITO, Akinori
		Natural Human-Machine Interaction by Spatial Augmented Reality using Mobile Robotics Projector-Vision System	Prof. KITAMURA, Yoshifumi
		Applications of Machine Learning in Medicine	·
			Prof. SHIOIRI, Satoshi
	Electrical, Information and Physics Engineering		Prof. SHIOIRI, Satoshi
	Electrical, Information and Physics Engineering	Using TensorFlow to classify handwritten digits	·
	Electrical, Information and Physics Engineering		Prof. SHIOIRI, Satoshi Prof. SUGANUMA, Takuo
	Electrical, Information and Physics Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection	·
School of Engineering	Electrical, Information and Physics Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning	Prof. SUGANUMA, Takuo
School of Engineering	Electrical, Information and Physics Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi
School of Engineering		Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. ITO, Takehiro
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering Civil Engineering and Architecture	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science Towards a universal query language for Internet of Things based on the Semantic model	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. ITO, Takehiro Prof. OHORI, Atsushi
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering Civil Engineering and Architecture	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science Towards a universal query language for Internet of Things based on the Semantic model INTERNET OF THINGS: VULNURABILITIES AND POTENTIAL IMPROVEMENTS TO ITS SECURITY INFRASTRUCTURE	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. ITO, Takehiro Prof. OHORI, Atsushi Prof. SHINOHARA, Ayumi
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering Civil Engineering and Architecture	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science Towards a universal query language for Internet of Things based on the Semantic model INTERNET OF THINGS: VULNURABILITIES AND POTENTIAL IMPROVEMENTS TO ITS SECURITY INFRASTRUCTURE Theoretical Computer Science / Game Theory	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. ITO, Takehiro Prof. OHORI, Atsushi Prof. SHINOHARA, Ayumi Prof. XIAO, Zhou Prof. SHIOIRI, Satoshi
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering Civil Engineering and Architecture	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science Towards a universal query language for Internet of Things based on the Semantic model INTERNET OF THINGS: VULNURABILITIES AND POTENTIAL IMPROVEMENTS TO ITS SECURITY INFRASTRUCTURE Theoretical Computer Science / Game Theory Relationship Between Spatial Position and Likelihood of Being Chosen	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. OHORI, Atsushi Prof. SHINOHARA, Ayumi Prof. SHIOIRI, Satoshi Prof. HORIO, Yoshihiko
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering Civil Engineering and Architecture System Information Science Applied Infomation Sciences	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science Towards a universal query language for Internet of Things based on the Semantic model INTERNET OF THINGS: VULNURABILITIES AND POTENTIAL IMPROVEMENTS TO ITS SECURITY INFRASTRUCTURE Theoretical Computer Science / Game Theory Relationship Between Spatial Position and Likelihood of Being Chosen Reservoir Computing with Spiking Neurons Simulation of Spiking Neuron Model in Reservoir Computing Cloudlet discovery using DNS	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. ITO, Takehiro Prof. OHORI, Atsushi Prof. SHINOHARA, Ayumi Prof. XIAO, Zhou Prof. SHIOIRI, Satoshi Prof. HORIO, Yoshihiko Prof. KATO, Nei
School of Engineering	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering Civil Engineering and Architecture System Information Science	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science Towards a universal query language for Internet of Things based on the Semantic model INTERNET OF THINGS: VULNURABILITIES AND POTENTIAL IMPROVEMENTS TO ITS SECURITY INFRASTRUCTURE Theoretical Computer Science / Game Theory Relationship Between Spatial Position and Likelihood of Being Chosen Reservoir Computing with Spiking Neurons Simulation of Spiking Neuron Model in Reservoir Computing	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. AKASHI Mochida Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. ITO, Takehiro Prof. OHORI, Atsushi Prof. SHINOHARA, Ayumi Prof. SHIOIRI, Satoshi Prof. HORIO, Yoshihiko
School of Engineering Faculty of Agriculture	Applied Chemistry, Chemical Engineering and Biomolecular Engineering Material Scinece and Engineering Civil Engineering and Architecture System Information Science Applied Infomation Sciences	Using TensorFlow to classify handwritten digits Hand Detection for Stealing Detection Human-Object Interaction Detection Elevator Optimization using Machine Learning Fuzzy Logic Feedback Controller for Wrist Control using Functional Electrical Stimulation Fabrication of Transparent Fluorescent PDMS Films Incorporating Hybrid SiO2/APTES Nanoparticles Through Physical Approach Fabrication of Transparent PDMS Nanocomposite Films Incorporating Silica Nanoparticles Surface-Modified with a Silane Coupling Agent Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device Effect of chemical treatment on optical properties of layered semiconductor MoS2 Optical investigation in layered semiconductors Titanium Aluminide alloys Inner Environment of a Vinyl Greenhouse Improving the wind environment in commercial districts by studying on H/W parameter based on CFD simulation Wind environment around the building A preliminary risk assessment of major ports in Taiwan based on tsunamis from Manila trench Craft Library Research on the Post Peak Behavior of Soil Slopes Based on Finite Element Method Finite Element Analysis for the Influences of Post Peak Behavior of Soils on the Formation Process of Sliding Surface in a Slope Theoretical Computer Science Towards a universal query language for Internet of Things based on the Semantic model INTERNET OF THINGS: VULNURABILITIES AND POTENTIAL IMPROVEMENTS TO ITS SECURITY INFRASTRUCTURE Theoretical Computer Science / Game Theory Relationship Between Spatial Position and Likelihood of Being Chosen Reservoir Computing with Spiking Neurons Simulation of Spiking Neuron Model in Reservoir Computing Cloudlet discovery using DNS	Prof. SUGANUMA, Takuo Prof. TANAKA, Kazuyuki Prof. WATANABE, Takashi Prof. NAGAO, Daisuke Prof. SHIKU, Hitoshi Prof. NITTA, Junsaku Prof. YOSHIMI, Kyosuke Assoc. Prof. KOBAYASHI, Hikaru Prof. IMAMURA, Fumihiko Prof. IWATA, Tsukasa Prof. KAZAMA, Motoki Prof. ITO, Takehiro Prof. OHORI, Atsushi Prof. SHINOHARA, Ayumi Prof. XIAO, Zhou Prof. SHIOIRI, Satoshi Prof. HORIO, Yoshihiko Prof. KATO, Nei