# List of Faculty Tokyo Institute of Technology International Graduate Program (A) Commencing in September 2023

## A2 Interdisciplinary Program on Cyber-Physical System for SmartSociety (CPSSS)

(1) Dept. o	f Mechanical Engineering			As of Aug. 23, 2022
Aca	demic Supervisor	Research Field	Remarks	Graduate Major
Professor	SUEKANE, Tetsuya	CO2 Geological Storage, Enhanced Oil Recovery, Transport in Porous Media, Numerical Simulation of Multiphase Flow		Mechanical Engineering
Professor	TANAHASHI, Mamoru	Fluid Dynamics, Heat and Mass Transfer, Combustion		Mechanical Engineering
Professor	NOZAKI, Tomohiro	Plasma Chemistry, Reaction Engineering, Thermal Engineering		Mechanical Engineering
Professor	FUSHINOBU, Kazuyoshi	Thermal Engineering (Laser, Electronic Packaging, Digital Printing, Energy Equipment)		Mechanical Engineering
Professor	MURAKAMI, Yoichi	CO2 Adsorbent Development, Materials Development for Batteries, Thermal Energy Harvesting & Storage, Photon Upconversion		Mechanical Engineering
Associate Professor	ONISHI, Ryo	Environmental Turbulent Flows, CFD, Machine Learning, Data Assimilation, Micro-Meteorology Forecasting System		Mechanical Engineering
Associate Professor	SAITO, Takushi	Development of Heat Transfer Control using Nanomaterials, Analysis of Transport Phenomena including Interface, Advanced Material Processing Technology using Heat		Mechanical Engineering
Associate Professor	SASABE, Takashi	Advanced Energy Engineering		Mechanical Engineering
Associate Professor	SHIMURA, Masayasu	Fluid Dynamics, Heat and Mass Transfer, Combustion, Combustion Control		Mechanical Engineering
Associate Professor	HASEGAWA, Jun	Plasma Science and Engineering, Ion Beam Science and Engineering, Fusion Energy, Fusion Neutron Source		Mechanical Engineering
Assistant Professor (Tenure Track)	MINAMOTO, Yuki	Direct numerical simulations of turbulent reacting flows, theoretical and machine-learning based modelling for turbulent flows and other natural and social phenomena.		Mechanical Engineering
Professor	INOUE, Hirotsugu	Mechanics of Materials, Non-destructive Testing		Mechanical Engineering
Professor	OHTAKE, Naoto	Manufacturing Science and Technology		Mechanical Engineering
Professor	SATO, Chiaki	Adhesion Technology, Composite Materials		Mechanical Engineering
Professor	HIRATA, Atsushi	Surface Engineering		Mechanical Engineering
Associate Professor	AONO, Yuko	Functional Surface and Thin Film, Laser Processing		Mechanical Engineering

Aca	demic Supervisor	Research Field	Remarks	Graduate Major
Associate Professor	AKASAKA, Hiroki	Synthesis and Evaluation of Inorganic Carbon Materials		Mechanical Engineering
Associate Professor	INABA, Kazuaki	Continuum Mechanics		Mechanical Engineering
Associate Professor	SAKAGUCHI, Motoki	Mechanics and Strength of Materials		Mechanical Engineering
Associate Professor	TANAKA, Tomohisa	Production engineering, Manufacturing, Tribology		Mechanical Engineering
Associate Professor	MIZUTANI, Yoshihiro	Structural Reliability Engineering, Application of Artificial Intteligence		Mechanical Engineering
Associate Professor	YAMAZAKI, Takahisa	Materials for Space Use, Advanced Joining and Surface Coating		Mechanical Engineering
Associate Professor	YAMAMOTO, Takatoki	Bionanotechnology, Micro TAS		Mechanical Engineering
Professor	SHINSHI, Tadahiko	Mechanical Systems Using Magnetic Force, Magnetic MEMS, Ultrasonic Medical Instruments Artificial Heart		Mechanical Engineering
Professor	MATUNAGA, Saburo	Space Systems Engineering, Micro/Nano Satellite/Spacecraft Systems, Variable Shape Space Technology		Mechanical Engineering
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		Mechanical Engineering
Professor	YAMAURA, Hiroshi	Mechatronics, Dynamics, Control		Mechanical Engineering
Specially Appointed Professor	KOBAYASHI, Tsune	Analysis and Design of Mechanical Elements, Mechanisms for Automobiles		Mechanical Engineering
Associate Professor	ISHIDA, Tadashi	Biomedical MEMS, Nanobiology		Mechanical Engineering
Associate Professor	KIM, Joon-wan	MEMS, Micro Mechatronics, Bio Mechatronics		Mechanical Engineering
Associate Professor	SAKAMOTO, Hiraku	Space Structures, Dynamics, Numerical Analysis		Mechanical Engineering
Associate Professor	NAKANISHI, Hiroki	Space engineering, Space robotics		Mechanical Engineering
Associate Professor	NAKANO, Yutaka	Vibration Engineering		Mechanical Engineering
Associate Professor	NISHISAKO, Takashi	Nano/micro Fluid, Emulsion, Micro Chemistry, Bio chemistry, MEMS		Mechanical Engineering

Aca	demic Supervisor	Research Field	Remarks	Graduate Major
Associate Professor	HIJIKATA, Wataru	Mechatronics, Medical Device, Wireless Power Transmission		Mechanical Engineering
Specially Appointed Associate Professor	MATSUURA, Daisuke	Analysis and Design of Mechanical Elements, Robotics, Mechatronics, Visual Measurement, Visual Servo, Non-contact Manipulation, Welfare equipment		Mechanical Engineering
Assistant Professor (Tenure Track)	CHUJO, Toshihiro	Astrodynamics, Trajectory design, Guidance, Navigation, and Control, Deep space mission design, Spacecraft system, Dynamics simulation		Mechanical Engineering
Professor	ENDO, Gen	Robotics, Mechatronics, Mechanism Design		Mechanical Engineering
Professor	OKADA, Masafumi	Robotics, Control Engineering		Mechanical Engineering
Professor	TAKEDA, Yukio	Mechanical Systems Design		Mechanical Engineering
Professor	NISHIDA, Yoshifumi	Living Centric Design, Living Function Support, Artificial Intelligence, IoT		Mechanical Engineering
Professor	MAEDA, Shingo	Soft Materials, Soft Robotics		Mechanical Engineering
Associate Professor	SUGAHARA, Yusuke	Mechanical Systems Design		Mechanical Engineering
Associate Professor	TAKAYAMA, Toshio	Robothics & Mechatronics, Mechanism, Soft robot, Medical device, Microfluidic device		Mechanical Engineering
Associate Professor	TANAKA, Hiroto	Biomimetics, Fluid dynamics of animal flight and swimming, Flapping-wing aerial/underwater robots, Micro fabrication		Mechanical Engineering
Specially Appointed Associate Professor	ENDO, Mitsuru	Human Collaborative Robot, Light-weight Actuator, Mechatronics, Industrial Robot		Mechanical Engineering
Associate Professor (Lecturer)	MIURA, Satoshi	Human-Machine Interface, Brain-Machine Interface, Medical Robotics, Welfare Robotics, Surgical Robotics		Mechanical Engineering

### (2) Dept. of Systems and Control Engineering

Aca	demic Supervisor	Research Field	Remarks	Graduate Major
Professor	AMAYA, Kenji	Inverse Problems, Computational Mechanics, Electrochemical Analysis, Optical Analysis		Systems and Control Engineering
Professor	IMURA, Jun-ichi	Robot Intelligent Control, Control Theory Hybrid Systems Theory		Systems and Control Engineering
Professor	KURABAYASHI, Daisuke	Biorobotic systems, Distributed systems, Motion planning		Systems and Control Engineering
Professor	KOSAKA, Hidenori	Thermodynamics, Fluid Dynamics, Internal Combustion Engine		Systems and Control Engineering
Professor	SAMPEI, Mitsuji	Control Theory		Systems and Control Engineering
Professor	TSUKAGOSHI, Hideyuki	Biomimetic Soft Actuator, Fluid powered robot, Medical actuator		Systems and Control Engineering
Professor	NAKAO, Hiroya	Nonlinear Dynamics, Stochastic Processes, Self-organization Phenomena		Systems and Control Engineering

Aca	ademic Supervisor	Research Field	Remarks	Graduate Major
Professor	NAKASHIMA, Motomu	Sports Engineering, Biomechanics, Biorobotics, Musculoskeletal Analysis, Welfare Engineering		Systems and Control Engineering
Professor	NAKADAI, Kazuhiro	Robot Audition, Computational Auditory Scene Analysis, Human- Machine Interaction		Systems and Control Engineering
Associate Professor	ISHIZAKI, Takayuki	Systems and Control Theory, Power Systems, Distributed Energy Management System, Optimization		Systems and Control Engineering
Associate Professor	KAWAKAMI,Rei	Open world vision, Multimodal recognition, Physics-based vision, Vision for AR/VR		Systems and Control Engineering
Associate Professor	SATO, Susumu	Environmental Load Reduction in Transportation System, Control of Advanced Exhaust After-Treatment System, Alternative Fuels for Internal Combustion Engine		Systems and Control Engineering
Associate Professor	TANAKA, Masayuki	Computational photography, Image processing		Systems and Control Engineering
Associate Professor	HATANAKA, Takeshi	Cyber-Physical & Human Systems, Cyber-Physical Campus Energy Management, Networked Mobility, Distributed Optimization, Learning and Games		Systems and Control Engineering
Associate Professor	HAYAKAWA, Tomohisa	Control Theory, Dynamical Systems Theory, Smart Society, Game Theory		Systems and Control Engineering
Associate Professor	HARA, Seiichiro	Surface profile sensing, measurement information processing / evaluation, machining information sensing, surface texture design		Systems and Control Engineering
Associate Professor	MIYAZAKI, Yusuke	Biomechanics, Injury Preventive Engineering, Digital Human Modeling		Systems and Control Engineering
Associate Professor	YAMAKITA, Masaki	Control Engineering, Robotics		Systems and Control Engineering
Specially Appointed Associate Professor	ITOYAMA, Katsutoshi	Music Information Processing, Statistical Signal Processing, Machine, Learning, Robot Audition, Animal Sound Analysis	Associate Prof. Itoyama belongs to research alliance laboratory with Honda Research Institute. Please make contact with the admission chair of the department, in advance.	Systems and Control Engineering

#### (3) Dept. of Electrical and Electronic Engineering

Aca	ademic Supervisor	Research Field	Remarks	Graduate Major
Associate Professor	ITO, Hiroyuki	Low Power CMOS Circuits, Internet of Medical Things, IoT in Agriculture		Electrical and Electronic Engineering
Professor	OKADA, Kenichi	Wireless Circuit Design, 5G/6G, Millimeter-Wave/Terahertz Communication, IoT, Analog/Digital Circuit Design		Electrical and Electronic Engineering
Associate Professor	SHIRANE, Atsushi	Integrated Circuits, Wireless Communication, Wireless Power Transfer, Satellite Communication		Electrical and Electronic Engineering
Professor	TOKUDA, Takashi	Microdevices and circuits for biomedical and IoT		Human Centered Science and Biomedical Engineering     Electrical and Electronic Engineering
Associate Professor	AOYAGI, Takahiro	Electromagnetic Compatibility (EMC)		Electrical and Electronic Engineering
Professor	UENOHARA, Hiroyuki	Optical Communications, Optical Signal Processing, Photonic Switching, Photonic Integration		Electrical and Electronic Engineering
Professor	SAKAGUCHI, Kei	Wireless communications, 5G/6G, IoT, mmWave, Wireless power transmission, Connected car, Automated driving		Electrical and Electronic Engineering
Associate Professor	TRAN, Gia Khanh	Gbps-class wireless backbone network, Radio resource management using AI, IoT networks employing drones		Electrical and Electronic Engineering
Associate Professor	SHOJI, Yuya	Lightwave Circuits, Optical Communication		Electrical and Electronic Engineering
Professor	NAKAGAWA, Shigeru	Semiconductor laser, Semiconductor vertical microcavity, Integrated photonics, Optical transmission		Electrical and Electronic Engineering
Professor	NAKAMURA, Kentaro	Optical Sensing, Applied Acoustic Devices		Human Centered Science and Biomedical Engineering     Electrical and Electronic Engineering
Professor	NISHIYAMA, Nobuhiko	Photonic Electronic Convergence Circuit, Semicondcutor Lasers, Ultra high-speed transceiver and Measurement System using Photonic Integrated Circuit		Electrical and Electronic Engineering

Autocolor (TOARA, Tourist)  COARA, Tourist  Coara Coara  Coara Coara  Coara Coara  Coa	Aca	demic Supervisor	Research Field	Remarks	Graduate Major
CALIFORNIA TAXABON   CONTROL	Professor	HIROKAWA, Jiro			Electrical and Electronic Engineering
Intercoral models  Semiconal m	Assistant Professor (Tenure Track)	TOMURA, Takashi			Electrical and Electronic Engineering
Accordance	Associate Professor	MIYAMOTO, Tomoyuki			Electrical and Electronic Engineering
Notices Notices Notices Notices Notices Notices Notices Noted Notices Noted No	Associate Professor	OHMI, Shun-ichiro	Semiconductor Devices		Electrical and Electronic Engineering
None quantum disclorations	Associate Professor	KAKUSHIMA, Kuniyuki	Nanoelectronics and MEMS		Electrical and Electronic Engineering
Professor SUCAN, Salam Communication, The Rades System, 114 30 Imaging Services Succession Succession Damord Quantum Sensor, Salid-static Quantum Emiller for Communication, Damord Quantum Emiller for Professor WAKABAYASHI, Hitosh Semiconductor Devices, Nano-destronics, USI  - Electrical and Electronic Engineering - Electronic and Engineering - Electronic and Engineering - Electronic Engineering - Electronic and Engineering - Electronic Engineering - Electronic and Electronic Engine	Associate Professor	KODERA, Tetsuo			
Professor WASANA, I Badyula Opantum Communication, Diamond Device - Energy Science and Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Electronical Engineering - Electronic Engineering - Electronical Engineering - Electronic E	Associate Professor	SUZUKI, Safumi			Electrical and Electronic Engineering
Associate Professor WATANABE, Massahiro Quantum Devices, Hetero-epitavial Engineering - Electrical and Electronic Engineering	Associate Professor	IWASAKI, Takayuki			
Associate Professor MYANAME, Material Associate ARAI, Kego Cuantum Metrologi, Quantum Sensing & Imaging, Quantum Information, Artificial Intelligence  - Electrical and Electronic Engineering - Electrical an	Professor	WAKABAYASHI, Hitoshi	Semiconductor Devices, Nano-electronics, LSI		Electrical and Electronic Engineering
Professor ANALA Region Information, Artificial Intelligence  **Electrical and Electronic Engineering Professor InO, Hiroaki  Organic Electronics, TFT, Imaging Devices  - Electrical and Electronic Engineering Electronics and Biomedical Engineering Electronic Engineering  - Electrical and Electronic Engineering  - Energy Science and Engineering  - Ener	Associate Professor	WATANABE, Masahiro	Quantum Devices, Hetero-epitaxial Engineering		Electrical and Electronic Engineering
Professor  KAJIKAWA, Kotaro  Plasmonics, Metamaterials, Nonlinear Optics  - Human Cantared Science and Biomedical Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electronic Engineering - Electronic Engineering - Electronic Engine	Associate Professor	ARAI, Keigo			Electrical and Electronic Engineering
Associate Professor PHAM. Nam Hai Semiconductor/metal spintronics, Ferromagnetic semiconductor, Topological insulator Professor PHAM. Nam Hai Semiconductor/metal spintronics, Ferromagnetic semiconductor, Topological insulator Professor MANAKA, Takaaki Organic and Polymer Electronics, Organic Devices, Nonlinear Optics  TAGUCHI, Dai Delectric physics, Organic electronics, Nonlinear Optics  TAGUCHI, Dai Delectric physics, Organic electronics, Nonlinear Optics  **Electrical and Electronic Engineering  **Energy Science and E	Associate Professor	IINO, Hiroaki	Organic Electronics, TFT, Imaging Devices		Electrical and Electronic Engineering
Associate Professor MANAKA, Takaaki Organic and Polymer Electronics, Ferromagnetic semiconductor, Topological insulator Professor MANAKA, Takaaki Organic and Polymer Electronics, Organic Devices, Nonlinear Optics - Electrical and Electronic Engineering - Electronical and Electronic Engineering - Electronic Engineering - Electronical Engineering - Electronic Engineering - Electronic Engineering - Electronic Engineering - Electronical and Electronic Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Electronic Eng	Professor	KAJIKAWA, Kotaro	Plasmonics, Metamaterials, Nonlinear Optics		
Professor Professor MANAKA, Takaaki Organic and Polymer Electronics, Organic Devices, Nonlinear Optics - Electrical and Electronic Engineering - Electrical and Electr	Associate Professor	SUGAHARA, Satoshi	Integrated Devices and Circuits		Electrical and Electronic Engineering
Associate Professor  AASSociate Professor  CRINO, Akitoshi  AATIOSPHORE Professor  AASSociate Professor  AASSociate Professor  AASSociate Professor  CRINO, Akitoshi  AATIOSPHORE Professor  AASSociate Professor  CRINO, Akitoshi  AATIOSPHORE Professor  CRINO, Akitoshi  AATIOSPHORE Professor  AASSociate Professor  CRINO, Akitoshi  AATIOSPHORE Professor  CRINO, Akitoshi  AASSociate Professor  CHIBA, Akira  Electric Machine, Magnetic Suspension  Electrical and Electronic Engineering  Electrical and Electronic Engin	Associate Professor	PHAM, Nam Hai	l=		Electrical and Electronic Engineering
Professor  MIYAJIMA, Shinsuke  Photovoltaic materials and devices  - Energy Science and Engineering  - Electrical and Electronic Engineering  - Energy Science and Engineering  - Electrical and Electronic Engineering  - Energy Science and Engineering  - Energy Science and Engineering  - Energy Science and Engineering  - Electrical and Electronic Engineering  - Electrical and Electronic Engineering  - Energy Science and Engineering  - Energy Science and Engineering	Professor	MANAKA, Takaaki			Electrical and Electronic Engineering
Professor  YAMADA, Akira  Semiconductor Physics, Solar Cells, Compound Thin-Film Solar Cells  Associate Professor  KINO, Akitoshi  Atmospheric Plasma Engineering, Spectrochemistry, Plasma Medicine  Associate Professor  KAWABE, Kenichi  Takeuchi, Nozomi  Plasma Engineering, Renewable energy sources  Takeuchi, Nozomi  Plasma Engineering, Electrostatics, High Voltage Engineering  Electrical and Electronic Engineering  Energy Science and Engineering  Electrical and Electronic Engineering  Energy Science and Engineering  Electrical and Electronic Engineering  Electrical and Electronic Engineering  Energy Science and Engineering  Electrical and Electronic Engineering  Energy Science and Engineering	Associate Professor	TAGUCHI, Dai	Dielectric physics, Organic electronics, Nonlinear Optics		Electrical and Electronic Engineering
Associate Professor  Associate Professor  CHIBA, Akira  Compound Thin-Film Solar Cells  Atmospheric Plasma Engineering, Spectrochemistry, Plasma Medicine  Atmospheric Plasma Engineering, Spectrochemistry, Plasma Medicine  Atmospheric Plasma Engineering, Spectrochemistry, Plasma Medicine  - Human Centered Science and Biomedical Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering	Associate Professor	MIYAJIMA, Shinsuke	Photovoltaic materials and devices		
Professor Assistant Professor (Tenure Track)  Associate Professor CHIBA, Akira  Electric Machine, Magnetic Suspension  Medicine  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Energy Science and Engineering  * Electrical and Electronic Engineering  * Electrical and El	Professor	YAMADA, Akira			
Professor (Tenure Track)  RAWABE, Kenichi Power system engineering, Renewable energy sources  - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Electrical and Electronic Engineering - Energy Science and Engineering - Energy Science and Engineering - Electrical and Electronic Engineering	Associate Professor	OKINO, Akitoshi			
Associate Professor  TAKEUCHI, Nozomi  Plasma Engineering, Electrostatics, High Voltage Engineering  - Electrical and Electronic Engineering  - Energy Science and Engineering  - Electrical and Electronic Engineering  - Electrical and Electronic Engineering  - Energy Science and Engineering	Assistant Professor (Tenure Track)	KAWABE, Kenichi	Power system engineering, Renewable energy sources		
Associate Professor	Associate Professor	TAKEUCHI, Nozomi	Plasma Engineering, Electrostatics, High Voltage Engineering		
Professor Profes	Professor	CHIBA, Akira	Electric Machine, Magnetic Suspension		
	Associate Professor	KIYOTA, Kyohei	Electric Machines, motor, generator, magnetic suspension		
Troiceson   Troice	Associate Professor	HAGIWARA, Makoto	Power Electronics, Smart Grid, Renewable Energy		Energy Science and Engineering     Electrical and Electronic Engineering

Aca	demic Supervisor	Research Field	Remarks	Graduate Major
Professor	FUJITA, Hideaki	Power Electronics, Electrical Machinery		Electrical and Electronic Engineering     Energy Science and Engineering
Assistant Professor (Tenure Track)	SANO, Kenichiro	Power Electronics, High voltage dc transmission		Electrical and Electronic Engineering     Energy Science and Engineering

#### (4) Dept. of Information and Communications Engineering

Aca	idemic Supervisor	Research Field	Remarks	Graduate Major
Professor	ISSHIKI, Tsuyoshi	System-LSI Design Methodology, Embedded Processor Design		Information and Communications Engineering
Professor	OKUMURA, Manabu	Natural Language Processing, Text Summarization, Text Mining, Sentiment Analysis		Information and Communications Engineering
Associate Professor	OBI, Takashi	Medical Informatics, Madical Image Processing, Information Security, Secure System		Information and Communications Engineering     Human Centered Science and Biomedical Engineering
Professor	KANEKO, Hirohiko	Visual Information Processing, Human Space Perception, Eye Movements,Multimodal Sensory Interaction		Human Centered Science and Biomedical Engineering     Information and Communications Engineering
Professor	KOIKE, Yasuharu	Human Interface, Computational Neuroscience		Human Centered Science and Biomedical Engineering     Information and Communications Engineering
Associate Professor	SASAKI, Hiroshi	Computer Architecture, Computer Security, Computer Systems, Internet of Things (IoT), Workload Characterization		Information and Communications Engineering
Visiting Professor	SATO, Imari	Computer Vision, Computer Graphics, Image-Based Modeling and Rendering, Machine Learning	indicates the person who can only be an academic cosupervisor.	Information and Communications Engineering
Associate Professor	SHINOZAKI, Takahiro	Speech Understanding, Dialogue System, Reinforcement Learning, Machine Learning		Information and Communications Engineering     Human Centered Science and Biomedical Engineering
Professor	SUZUKI, Kenji	Deep learning, Machine learning, Computer-aided Diagnosis, Biomedical Image Understanding, Artificial Intelligence.		Human Centered Science and Biomedical Engineering     Information and Communications Engineering
Professor	SLAVAKIS Konstantinos	Signal Processing, Machine Learning, Data Analytics		Human Centered Science and Biomedical Engineering     Information and Communications Engineering
Associate Professor	NAGAI, Takehiro	Color Science and Technology、Material Perception Science、Visual Psychophysics		Human Centered Science and Biomedical Engineering     Information and Communications Engineering
Associate Professor	NAKATANI, Momoko	Human Computer Interaction, Service Design, Communication Enhancement, Well-being		Engineering Sciences and Design
Associate Professor	NAKAHARA, Hiroki	Reconfigurable Computing, High-Performance Computing, FPGA, Machine Learning		Information and Communications Engineering
Professor	NAKAMOTO, Takamichi	Human Interface, Olfactory Display, Odor Sensing System, Sensor Information Processing	Retire in March 2025	Information and Communications Engineering
Associate Professor	NISHIO, Takayuki	Wireless Networks, Application of Machine Learning, Federated Learning, Ambient Sensing, Multi-modal System, Resource Coordination		Information and Communications Engineering
Associate Professor	HASEGAWA, Shoichi	Physics Engine, Character motion, Haptics, Virtual Reality, Human Computer Interaction, Entertainment Computing		Information and Communications Engineering     Engineering Sciences and Design
Associate Professor	HARA, Yuko	Low-Energy Embedded Systems, Internet of Things (IoT), Hardware/Software Co-design		Information and Communications Engineering
Professor	FUKAWA, Kazuhiko	Wireless Communications, Wireless Communication Networks, Intelligent Signal Processing, Adaptive Filter Theory		Information and Communications Engineering
Associate Professor	FUNAKOSHI, Kotaro	Natural Language Processing, Multimodal Dialogue System, Human-Machine Interaction		Information and Communications Engineering
Professor	MOTOMURA, Masato	Reconfigurable Hardware, Intelligent Computing, Deep Learning Processor, Annealing Machine		Information and Communications Engineering
Professor	YAMAGUCHI, Masahiro	Optical Imaging and Display, Spectral Imaging, Pathology Image Analysis, Holography		Human Centered Science and Biomedical Engineering     Information and Communications Engineering

Aca	demic Supervisor	Research Field	Remarks	Graduate Major
Associate Professor	YU, Jaehoon	Machine Learning, Intelligent Computing, Pattern Recognition, System Architecture		Information and Communications Engineering
Associate Professor	YOSHIMURA, Natsue	Brain Activity Decoding, Human Interface, Computational Neuroscience		Human Centered Science and Biomedical Engineering     Information and Communications Engineering
Associate Professor	WATANABE, Yoshihiro	Computer Vision, Augmented Reality, Digital Archiving, Human- computer Interaction		Information and Communications Engineering

#### (5) Dept. of Industrial Engineering and Economics

Aca	demic Supervisor	Research Field	Remarks	Graduate Major
Professor	ICHISE, Ryutaro	Artificial Intelligence, Machine Learning, Semantic Web, Data Mining		Industrial Engineering and Economics
Professor	INOUE, Kotaro	Corporate Finance, Corporate Governance		Industrial Engineering and Economics
Professor	UMEMURO, Hiroyuki	Affect and Emotion, Gerontechnology, Human Factors		Industrial Engineering and Economics
Professor	SHIOURA, Akiyoshi	Discrete Optimization, Operations Research, Algorithm Theory		Industrial Engineering and Economics
Professor	SENOO, Dai	Knowledge Management, Leadership		Industrial Engineering and Economics     Engineering Sciences and Design
Professor	NAKATA, Kazuhide	Operations Research, Continuous Optimization, Machine Learning		Industrial Engineering and Economics
Professor	MATSUI, Tomomi	Optimization Theory, Combinatorics, Operations Research		Industrial Engineering and Economics
Professor	YAMATO, Takehiko	Microeconomic Theory, Experimental Economics		Industrial Engineering and Economics
Associate Professor	AOKI, Hirotaka	Human Factors and Ergonomics, Industrial Engineering		Industrial Engineering and Economics
Associate Professor	OGASAWARA, Kota	Cliometrics, Health Economics		Industrial Engineering and Economics
Associate Professor	KAWASAKI, Ryo	Mathematical Economics, Game Theory		Industrial Engineering and Economics
Associate Professor	GU, Xiuzhu	Healthcare management, Safety engineering, Human factors		Industrial Engineering and Economics
Associate Professor	SEABORN Katie	Human factors engineering, inclusive design, game design, UX		Industrial Engineering and Economics
Associate Professor	CHUNG, Sulin	Marketing, Retailing		Industrial Engineering and Economics
Associate Professor	NAGATA, Kyoko	Financial Reporting, Company Analysis, Corporate Governance		Industrial Engineering and Economics
Associate Professor	FUKUDA, Emiko	Industrial Economics, Game Theory		Industrial Engineering and Economics
Associate Professor	HORI, Takeo	Dynamic Macroeconomics, Economic Growth		Industrial Engineering and Economics
Visiting Professor	MASUI, Toshihiko	Environmental Economic Modeling	Supporting supervisor	Industrial Engineering and Economics
Visiting Associate Professor	KANAMORI, Yuko	Environmental Economic Modeling	Supporting supervisor	Industrial Engineering and Economics