

Department of Core Informatics

To nurture professionals in informatics with knowledge and skills in a discipline that repeatedly evolves and develops through paradigm shifts, and who will pursue education and research on the unchanging truths and methods that underlie the field even if values change and diversify with the changing times.

In the Course of Intelligent Informatics, we train students to have the knowledge and skills to realize human intellectual abilities such as recognition, understanding, inference, and learning on computers through problem solving in the academic fields of signal processing, intelligent systems, media processing, machine learning, and data science.

In the Course of System Informatics we train students to have the knowledge and skills to grasp things as a system and build a model to find optimal solutions for the system as a whole, through experience of problem solving in the academic fields of parallel processing, measurement and control, information networking, security and signal processing.

Course of Intelligent Informatics				
Title	Name	Education and Research Fields	Email Address	Campus
Professor	HONDA Katsuhiro	Data Analysis, Soft Computing, Cluster Analysis, Knowledge Discovery	khonda [at]omu.ac.jp	Nakamozu
Professor	ISHIMARU Shoya *	Cognitive Psychology, Activity Recognition, Learning Assistant, Medical Information	ishimaru [at]omu.ac.jp	Nakamozu
Professor	IWAMURA Masakazu	Intelligent Media Processing, Character and Object Recognition, Document Image Retrieval, Deep Learning, Visually Impaired Assistance	masa.i [at]omu.ac.jp	Nakamozu
Professor	KISE Koichi	Intelligent Media Processing, Document Information Processing, Document Image Analysis, Object Recognition, Activity Recognition, Learning Assistance	kise [at]omu.ac.jp	Nakamozu
Professor	MORI Naoki	Machine Learning, Kansei Engineering, Software Engineering, Evolutionary Computation	mnao [at]omu.ac.jp	Nakamozu
Professor	NOJIMA Yusuke	Evolutionary Computation, Knowledge Extraction, Multiobjective Optimization	nojima [at]omu.ac.jp	Nakamozu
Professor	UNO Yushi	Discrete Structures and Algorithms, Combinatorial Optimization, Computational Complexity, Data Structures, Network Analysis, System Modeling	yushi.uno [at]omu.ac.jp	Nakamozu
Professor	YOSHIOKA Michifumi	Intelligent Signal Processing, Image Processing, Pattern Detection	ysok [at]omu.ac.jp	Nakamozu
Associate Professor	HAYASHI Toshiharu ※1	Data Analysis and Data Assimilation, especially Reliability Engineering, Mathematical Finance and Statistical Inference for Stochastic Processes.	hayashi_toshiharu [at]omu.ac.jp	Nakamozu
Associate Professor	HOJO Hitoshi	Reliability Engineering, Game Theory, Operations Research, Stochastic Model, Decision-making	hojo [at]omu.ac.jp	Nakamozu
Associate Professor	INOUE Katsufumi	Image Sensing, Pattern Recognition, Machine Learning, Action Recognition, Gesture Recognition	inoue [at]omu.ac.jp	Nakamozu
Associate Professor	IWATA Motoi	Intelligent Media Processing, Information Security, Digital Watermark, Steganography, Activity Recognition, Learning Assistance	imotoi [at]omu.ac.jp	Nakamozu
Associate Professor	MASUYAMA Naoki	Continual Learning, Clustering, Knowledge Extraction, Unsupervised Learning	masuyama [at]omu.ac.jp	Nakamozu
Associate Professor	UBUKATA Seiki	Data Analysis, Soft Computing, Rough Set Theory, Knowledge Discovery	ubukata [at]omu.ac.jp	Nakamozu
Associate Professor	UTSUMI Yuzuko	Intelligent Media Processing, Pattern Recognition, Plant Image Processing	yuzuko [at]omu.ac.jp	Nakamozu
Specially Appointed Associate Professor	Vargo Andrew William	Human Computer Interaction, Ubiquitous Computing, Physiological Data Analysis, Qualitative Data Analysis, Exploratory Data Analysis, Social Informatics	awv [at]omu.ac.jp	Nakamozu
Assistant Professor	KIYA Hironori	Combinatorial game theory, Algorithmic engineering, Imperfect information game, Algorithmic game theory	kiya [at]omu.ac.jp	Nakamozu
Course of System Informatics				
Title	Name	Education and Research Fields	Email Address	Campus
Professor	ATA Shingo	Network Architecture, Traffic Analysis, Network Operation and Management, Network Programmability	ata [at]omu.ac.jp	Sugimoto
Professor	CAI Kai	Systems Control, Discrete-Event Systems, Cyber-Physical Systems, Cybersecurity, Multi-Agent Systems, Networked Robotics, Deep Reinforcement Learning, Distributed Algorithms	cai [at]omu.ac.jp	Sugimoto
Professor	FUJIMOTO Noriyuki	High Performance Computing, GPU Computing, Discrete Optimization, Grid Computing	fujimoto [at]omu.ac.jp	Nakamozu
Professor	NAKANO Tadashi	Information Networks, Molecular Communication, Bio-inspired Networks, Social Networks, Life Science	tnakano [at]omu.ac.jp	Sugimoto
Professor	OHNO Shuichi	Digital Communication, Signal Processing, Data Analysis, Machine Learning	ohno [at]omu.ac.jp	Sugimoto
Professor	TODE Hideki	Intelligent Networking, Network Quality Control, Content Distribution Control, Broadband Network, Secure Networking	tode [at]omu.ac.jp	Nakamozu
Associate Professor	FUJIMOTO Manato	Ubiquitous Computing, Internet of Things (IoT), Wireless Communications, Sensing, Elderly Monitoring	manato [at]omu.ac.jp	Sugimoto
Associate Professor	TANIGAWA Yosuke	Intelligent Networking, Wireless Network Quality Control, Wireless Media Access Control	tanigawa [at]omu.ac.jp	Nakamozu
Associate Professor	TRAN Thi Hong	Blockchain, Distributed Application (Dapp), Cryptographic Hash Function, FPGA, Embedded Hardware Accelerator	hong [at]omu.ac.jp	Sugimoto
Lecturer	KATSUMA Ryo	Sensing, Ad-hoc Network, Mobile Computing	katsuma [at]omu.ac.jp	Nakamozu
Lecturer	LIU Yingying	Cyber-Physical Systems, Discrete-Event Systems, Artificial Intelligence	i25263y [at]omu.ac.jp	Sugimoto
Lecturer	UENO Atsushi	Artificial Intelligence, Reinforcement Learning, Natural Language Processing	a-ueno [at]omu.ac.jp	Sugimoto

(As of October 15,2025)

Please replace [at] with @, the at symbol.

※1 Scheduled to retire in March 2026

* Joint faculty position with Innovation Academy Co-Creation Research Institute

Department of Interdisciplinary Informatics

The purpose of this course is to develop design and management skills of information systems that organize a wide variety of information and knowledge to solve various issues in modern society, in which a sense of values are changing and diversified. This course cultivates systematic knowledge and skills of interdisciplinary application ability that triggers a new paradigm shift through informatics in a variety of fields.

Title	Name	Education and Research Fields	Email Address	Campus
Professor	ABE Kota	Distributed Systems and System Software	k-abe [at]omu.ac.jp	Sugimoto
Professor	ANZAI Daisuke	Body Area Communications, Implantable Medical Devices, Medical Wireless Applications	d.anzai [at]omu.ac.jp	Nakamozu
Professor	ISHIBASHI Hayato ^{※3}	Architectures, Operations and Management of Information Networks and other Information Infrastructures	ishibashi [at]omu.ac.jp	Sugimoto
Professor	* IWAMURA Koji	Production System, Production Simulation, Optimization of Production Planning by Using Multi-Agent or Machine Learning	cozy [at]omu.ac.jp	Nakamozu
Professor	MAJIMA Yukie ^{※3}	The integration of health-care sciences, computer science, information science, cognitive science, and human science to assist in the management of healthcare information.	majima [at]omu.ac.jp	Nakamozu
Professor	MIYAMOTO Takao ^{※2}	Information Security, Information Network, Information System Engineering, Research on Design, Development and Operation Management of Information systems	aki [at]omu.ac.jp	Nakamozu
Professor	* MORINAGA Eiji	System Design and Integration, Computer-Aided Conceptual Design, Integrated Optimization of Manufacturing System, Decentralized Production Management	morinaga.e [at]omu.ac.jp	Nakamozu
Professor	MORITA Hiroyuki	Application of data-mining techniques for practical business data.	hiro [at]omu.ac.jp	Nakamozu
Professor	MURAKAMI Harumi	Information Retrieval, Artificial Intelligence, User Interface, Text Mining, Web Intelligence, Lifelog, Library and Information Science	harumi [at]omu.ac.jp	Sugimoto
Professor	NAKASHIMA Tomoharu	Data analysis, Fuzzy systems, Computational intelligence, Machine learning, Game AI	tomoharu.nakashima [at]omu.ac.jp	Nakamozu
Professor	OHTA Masaya	OFDM Communication, IoT, FPGA Applications, Machine learning, Image Processing, Augmented Reality, Web Technology, Mobile Apps, Education Support Systems	ota [at]omu.ac.jp	Nakamozu
Professor	SUGANO Masashi ^{※3}	New architecture of information network and application, Autonomous distributed network, Smart grid, Sensor network	sugano [at]omu.ac.jp	Nakamozu
Professor	UESUGI Tokuteru	Materials design based on machine learning and first-principles calculations, Optimization of materials process by machine learning, Image processing of microstructures using machine learning	uesugi [at]omu.ac.jp	Nakamozu
Professor	WATANABE Shinji	Analysis, evaluation, and policy recommendation of the influence of information technology on economic and management systems.	shinji_watanabe [at]omu.ac.jp	Nakamozu
Professor	YANAGIMOTO Hidekazu	Knowledge discovery from big data with statistical machine learning, Machine comprehension using large language model	hidekazu [at]omu.ac.jp	Nakamozu
Specialty Appointed Professor	IZUMI Masao	Human activity detection from video, Education / Learning support system with Image processing, Various systems using video processing	izumi [at]omu.ac.jp	Nakamozu
Associate Professor	AOKI Shigeki	Development, Management and Analysis of Information Systems, Information Security, Pattern Recognition	aoki [at]omu.ac.jp	Nakamozu
Associate Professor	HAYASHI Yuki	Learning Support System, Multiparty Multimodal Interaction, Intelligent User Interface	hayapy [at]omu.ac.jp	Nakamozu
Associate Professor	* HIRABAYASHI Naoki ^{※1}	Production Management Systems, Real Time Production Scheduling, Dynamic Facility Layout, Optimization Method by Mathematical Planning and Metaheuristics	n_hira [at]omu.ac.jp	Nakamozu
Associate Professor	KOJIMA Atsuhiko	Development of Learning Management System (LMS) and applications that support learning activities, Teaching methods of information-related education	ark [at]omu.ac.jp	Nakamozu
Associate Professor	MASUDA Seiko	Research on the application of ICT to the health care field, Research on the visualization of regional information, Data health, Research on the development of information utilization skills of nurses	s-masuda [at]omu.ac.jp	Nakamozu
Associate Professor	NAGATA Yoshikatsu ^{※3}	Integrated spatio-temporal information for regional history and diversity, Practical utilization of spatial information system	nagatay [at]omu.ac.jp	Sugimoto
Associate Professor	ONISHI Katsumi	Applied Algorithms for Discrete Optimization Problems in Distributed Computing Environments	onisi [at]omu.ac.jp	Sugimoto
Associate Professor	SAGA Ryosuke	Knowledge Discovery from Big Data and its Application, Information Retrieval and Recommender System, Information Visualization and Human Computer Interaction, Analysis and Methodology of Existing and New Service Creation	r.saga [at]omu.ac.jp	Nakamozu
Associate Professor	TAKAHASHI Kei	Data analysis, Marketing Science, Causal Analysis, Material Informatics	taka84 [at]omu.ac.jp	Nakamozu
Associate Professor	YOSHIDA Daisuke	Applied research on disaster prevention / mitigation, infrastructure maintenance, urban development, utilizing geospatial information	daisuke [at]omu.ac.jp	Sugimoto
Lecturer	KUSUNOKI Yoshifumi	Machine Learning and Data Analysis, Mathematical Programming, Soft Computing, Decision Making, Optimization Algorithms	yoshifumi.kusunoki [at]omu.ac.jp	Nakamozu
Specialty Appointed Assistant Professor	ABURATANI Tomoki	Intelligent Tutoring System, Artificial Intelligence in Education, Intelligent systems of organizational knowledge refinement	aburatani.tomoki [at]omu.ac.jp	Nakamozu

(As of October 15,2025)

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※1 Scheduled to retire in March 2026 ※2 Scheduled to retire in March 2027 ※3 Scheduled to retire in March 2028

For the examination categories in the Master's Degree Program (International Students) for September, October admission in 2025, * indicates faculty members belonging to Examination Category B, and all others except * indicate faculty members belonging to Examination Category A.