Degree Programs in Systems and Information Engineering Graduate School of Science and Technology

Faculty member list (5-year doctoral program)

< Ph.D. Program in Empowerment Informatics >

Research Field	Fuculty Members	Detailed Description of Research Field
Supplementation	AIYAMA Yasumichi	Human-like Dexterous Robot Manipulation, Advanced Industrial Robot.
	UTSURO Takehito	Natural Language Processing, Web Mining, Information Retrieval, Human-Machine
		Communication by Speech and Language, Understanding and Creating Entertainment and
		Educational Contents, Language Processing by
	KURODA Yoshihiro	Deep Learning, Artificial Intelligence. Interactive Biological Media, Medical Artificial
	SUZUKI Kanii	Intelligence, Medical System
	SUZUKI Kenji	Artificial Intelligence, Autonomous Humanoid Robot, Human Assistive Technology, Music &
		Sound Media Technology, Kansei Research.
	MORITA Masahiko	Brain-like Computing, Neural Networks, Modeling Brain Functions.
	YANO Hiroaki	Cooperative VR Environment, Virtual Reality, Assistive Technology.
	IZAWA Jun	Computational Neuroscience, Motor Control and
		Learning, Neural Decoding, VR Rehabilitation Robot, Stroke Simulator, Decision Making
	KAWASAKI	Neuroscience, Cognitive Science, Psychology,
	Masahiro	Communication, Signal Processing.
	KAWAMOTO Hiroaki	Integration of Human and Robot, Biological Control Systems, Biological Motion & Physiology
		Analysis, Robot Therapy, Robot Safety.
	TANAKA Fumihide	Social Robotics, Feel Safe AI, Feel Safe Technologies, Human-Robot Interaction,
		Education Support, Development and Learning,
		Active Seniors.
	SHOJI Gaku	Earthquake engineering and structural dynamics. Clarification on nonlinear seismic response of
		infrastructure subjected to extreme ground
		motions, development of seismic retrofit technologies, structural reliability assessment
	★Kikue HIDAKA	Rehabilitation Nursing

Takashi Outdoor Autonomous Mobile Vehicles. MARUYAMA Reconfigurable Computer Systems, Ada	ots,
	,
	ptive
Tsutomu Complex System.	
YABUNO Hiroshi Nonlinear Mechanical Systems, Nonlinea	ar
Control of Nano-Micro Machines, Bifurca	
Control and its Applications.	
EBIHARA Tadashi Communication and Information Enginee	erina.
Oceanic Engineering, Network Engineer	•
SAKAINO Sho Mechatronics, Haptics, Manipulation	3
DATE Hisashi Model Predictive Control for Nonlinear S	vstems.
Autonomous Mobile Robot, Self-Driving	-
Snake-LikeRobot and Mechanical System	•
Design.	
HASEGAWA System Modeling.	
Manabu	
WAKATSUKI Naoto Simulation based Visualization, Vibration	1
Sensors and Actuators, Acoustical Engin	
Musical Acoustics, Inverse Problems.	•
ITOH Makoto Systems safety: mutual trust and cooper	ation in
human-machine systems, cognition, infe	rence,
and decision making under uncertainty o	r gray
zone, perception and acceptance of risk.	
SAKAI Ko Computational vision: representation of s	shape,
perception of 3D structure, figure-ground	
segregation, cortical representation, cog	nitive
neuroscience, and psychophysics.	
FUKUI Kazuhiro Pattern recognition and computer vision:	Face
recognition, 3D object recognition, huma	n
sensing, robot vision.	
★SARUWATARI Operations Research	
Yasufumi	
★NISHIO Chizuru Marketing Management	
★YANAGA Masao Law	
★MORISHIMA Crowdsourcing, Data Engineering, Data	oase
Atsuyuki Systems	
E x t e n s i o n KAMEDA Yoshinari Massive Sensing, Intelligent Image	
Understanding / Processing, Multimedia	
Understanding, Model based Vision, Mix	ed
Reality.	
NAKAUCHI Yasushi Human-Robot Interaction, Intelligent	
Environments, Sensor Network.	
HOSHINO Kiyoshi Biomedical Measurement and Analysis,	
Mathematical Models for Biological Syste	em, Brain
Science.	

KAKEYA Hideki	3D Imaging, Information Display, Geometric
	Optics, Computer Aided Surgery, Media
	Technology, Natural Language Processing
KITAHARA Itaru	Real World Imaging, Free-Viewpoint Video,
	Mixed-Reality, Augmented Reality.
NOBUHARA Hajime	Computational Intelligence, Multimedia
	Processing, Advanced Sensing by UAV.
HOSHINO Junichi	Entertainment Computing, Game Technologies,
	Storytelling Technologies.
MOCHIYAMA Hiromi	Soft Robotics, Haptics Technology.
KATO Kazuhiko	System software: Distributed system, cloud
	computing, operating system, cyber-physical
	system, software security
MITANI Jun	CG and CAD: Geometric modeling, Human
	computer interface, Computational origami.
★AYABE-KANAMURA	Perception and Cognitive Psychology
Saho	
★TANAKA Sayoko	Science Visualization

(Note)

The faculty member marked " \star " will conduct research guidance with the support of the faculty member without the " \star " mark.