

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Electrical and Electronics Engineering

Name	Academic Areas	Keywords
Toshimichi SAITO	Nonlinear circuits, Neural networks, Swarm intelligence, Power electronics	Binary Neural Networks, Chaotic Circuits, Stability Analysis, Particle Swarm Optimization
Akira YASUDA	Electronic circuit engineering, Control engineering	Analog-Digital converter, Digital-Analog Converter, Analog Integrated Circuit, Analog RF circuit, Digital Direct Driven Technique, Digital Speaker, Multi-coil Motor
Junji YAMAUCHI	Electromagnetic wave transmission engineering, Design of passive optical devices	Beam-propagation method, Polarization converter, Surface wave antennas
Kazuyuki ITO	Perceptual information processing and intelligent robotics, Intelligent mechanics and mechanical systems, Systems engineering	Intelligent robotics, Rescue robot
Jun SHIBAYAMA	Functional element engineering	Finite-difference time-domain method, Terahertz devices, Sensors
Yoshihumi OKAMOTO	Computational Electromagnetics Optimal Design, Multi-physics High-speed Large-scale Computation	Finite Element Method, Topology Optimization, Adjoint Variable Method, Parallel Computation, Electrical Machine

Graduate School of Science and Engineering [Master's and Doctoral]
Major in Applied Informatics

Name	Academic Areas	Keywords
Shigeru AKAMATSU	KANSEI information engineering	visual pattern recognition systems, facial image synthesis, human information processing
Koichi OGAWA	Image processing, Medical imaging	computed tomography, image processing, medical imaging, x-ray detector, simulation technology
Atsushi KANAI	Data networks and security, Data communications and security	cyber security, internet protocol, web service, privacy preserving
Mitsuru SHINAGAWA	IT engineering, Ubiquitous networks, Wireless networks, Optical measurement	Intra-body communication, Electro-magnetic shielding, Organic photovoltaics, Optical coherence tomography
Akihiro FUJII	Distributed system design	Web Service, Semantic Web, Collective Intelligence
Kazuo YANA	Data processing engineering	Ubiquitous health care system, biosignal big data processing, Mental stress test via heart rate variability, Cardiac risk assessment
Lei LI	Intelligent information engineering, Algorithms	Fast Algorithms, Parallel Algorithms, Soft Computing, the Computational Complexity
Koichi WADA	Theoretical computer science	Computation, Parallel/Distributed Algorithms, Computer Aided Education
Hitoshi IYATOMI	Intelligent information processing, Image recognition and analysis, Medical engineering	Deep learning, computer vision, machine learning, image processing, text mining, medical engineering
Makoto HIRAHARA	Biological information processing	Vision, Memory, Neural networks, Machine learning
Kenji MIYAMOTO	Programming languages	User Interfaces, Software engineering

Graduate School of Science and Engineering [Master's and Doctoral]
Major in System Engineering

Name	Academic Areas	Keywords
Tadashi URATANI	Financial engineering	Derivative pricing, No arbitrage, Black-Scholes formulas
Toshiyuki KATSURA	Coding theory, Algebraic geometry	K3 surface, Calabi-Yau variety, Elliptic surface, Abelian variety, Algebraic geometric code
Mitsuhiro KIMURA	Reliability engineering, Quality control engineering	Mathematical reliability modeling, Software reliability, Reliability and Quality data analysis
Hiroyuki GOTO	Operations research, High-performance computing	Discrete event systems, scheduling, geographic computation
Yoichi NAKAMURA	Economic engineering	Economic statistics, System of national accounts, Econometric analysis
Tatsuyoshi MIYAKOSHI	Applied financial analysis	Financial crisis, Japanese and Asian financial system
Shin ISOJIMA	Nonlinear integrable systems	Integrable systems, Difference equations, Cellular automata, Ultradiscretization
Nobuyuki TAMURA	Applied probability theory, Operations research	Optimal maintenance policy, Degradation process modeling, imperfect maintenance
Kazuhiro YASUDA	Probability analysis, Mathematical finance	Stochastic differential equations, Derivative pricing, Portfolio optimization, Stochastic numerical analysis