

Information Architecture	
研究室	修士論文タイトル
Fujimura	An Improved NSGA-III for energy-conscious many-objective flexible job-shop scheduling problem under time-of-use electricity tariffs
Fujimura	Genetic Algorithm for Assigning Autonomous Guided Vehicles in Warehouse
Fujimura	An improved steganography method for images based on Generative adversarial networks
Fujimura	Human Activity Recognition Based on Sensor Data
Fujimura	Pharmacies Retailing Forecasting by Using LSTM Model Based on Covid-19 Trend and Online Searching Behaviors
Furuzuki	Multi-level Item Representation Learning for Sequential Recommendation
Furuzuki	Contrastive Learning with Hybrid Loss Function for Solving Item Cold-Start Recommendation
Furuzuki	An Optical Flow Model Improved using Global Correlation Information
Furuzuki	Residual Network with Multi-Level Channel Attention for Image Super-Resolution
Furuzuki	Lane Detection Based on Self-learnable Line Anchors and Self-attention Mechanism
Furuzuki	A study of sparse anchor-based object detection in crowded scenes
Furuzuki	Multi-Scale Dilated Convolution Networks for Skeleton-Based Action Recognition
Iwaihara	Few-Shot Multi-Label Aspect Category Detection Utilizing Prototypical Network with Sentence-Level Weighting and Label Augmentation
Iwaihara	Mapping Wikipedia Categories and Lists to DBPedia Ontology Based on Structural and Semantic Features
Iwaihara	Answer Prediction for Commonsense Multiple-Choice Questions by Utilizing Pretrained Language Model, Knowledge Graph and Additional Information
Kamata	Skeleton-Based Action Recognition Using Spatial-Temporal Hypergraph Networks
Kamata	Fundus Age Estimation for Aging Index Using Sparse Hypergraph Networks
Kamata	Recurrent Frequency-Aware Transformer for Endoscopic Video Super-Resolution
Kamata	Kuzushiji Recognition for Ancient Documents Using Triplet Feature Mixer
Lepage	Automatic correction and evaluation of Japanese sentences written by beginners with a focus on sentence level naturality
Lepage	Predicting missing sentences in multilingually aligned matrices of sentences
Lepage	Resolution of analogies between strings in the case of several solutions
Lepage	Improving the writing style of NLP article drafts written in English by introducing lexical bundles
Matsumaru	Anchor-Level Pseudo Labeling for Mixed Unknown Challenge of Open-Set Object Detection
Tsubokawa	Study on Crosstalk Suppression in Small Diameter, High Density Multicore Fibers
Tsubokawa	Study on the Dynamic Bandwidth Allocation Algorithm of EPON for 5G Requirements
Yoshie	Layered image generator by deep learning
Yoshie	A study on lettering evaluation in comic translation
Yoshie	AR speech balloon using emotion-cause pair extraction for deaf people conversation
Yoshie	Research on Improving Robustness of Deepfake Speech Detection against Noise by Pre-trained Speech Models
Yoshie	Portfolio Management in Cryptocurrency Market using TD3 Algorithm
Yoshie	A study on performance of high-speed packet I/O framework Netmap based on NS-3
Yoshie	A Light-weight and Real-time Object Detection Model Using Depthwise Separable Convolution
Yoshie	Anime Recommendation Using Knowledge Graph Based on Character Features and Production Information
Yoshie	A homogeneous model-based decentralized Actor-Critic method for urban traffic control
Production Systems	
Lee	Modified U-NET for Fast Sampling Path Planning
Lee	Deep Learning-based Trajectory Prediction using Improved HiVT
Lee	High-frequency Financial Time Series Forecasting based on ARMA-LSTM Model
Lee	Deep Reinforcement Learning of Autonomous Vehicles at Unsignalized Intersection
Miyake	Sodium-selective biotransducers for bioapplications
Miyake	Microfluidic control system for drug release from electric contact lenses
Miyake	Cytosol transfer system using nanotube-based injectors
Miyake	Microbeads delivery through Au nanotubes for cytotoxicity evaluation
Miyake	Biomarker detection using enzyme/mediator/surfactant/carbon nanotube composite fibers
Miyake	Intracellular molecule delivery through hybrid nanotubes of using gold and motor proteins
Miyake	Iontophoretic drug delivery system using a biobattery on a contact lens
Takahashi	Study on radiation sensitization effect of water-soluble Li+@C60
Tanaka	A motorless walking assistive device powered by integrated dual slider-lever mechanism
Tanaka	Development of immediately gait-adaptive method for a compact ankle assistive robot
Tanaka	Development of a wearable upper limb assistive device with remote center of motion mechanism
Tateno	Location Estimation Method Based on Fingerprinting Considering Indoor Properties of RSSI
Tatsumi	Improvement of the reliability of interconnection in solar cells by using Ni micro-plating bonding(NMPB)
Tatsumi	Study on stress relaxation structure for semiconductor power device interconnection using Ni nano-particles
Tatsumi	Research on Stress Relaxation Struture of Semiconductor Chip Interconnection Formed by Nano-Ag Paste
Tatsumi	Study on the reliability of bonds between nickel-plated silver wires and aluminum pads for semiconductor packages
Tatsumi	Study on stress reducing technology for high temperature resistant packaging using Ni micro plating bonding
Integrated Systems	
Ikehashi	Taper Detecting Methods for High Aspect Ratio Through Silicon Deep Reactive Ion Etching
Ikenaga	Visible Joint Classification and Temporal Segment Matching with Specific Constraints of Action based 3D Pose Refinement for Volleyball Receive Analysis
Ikenaga	CU Content Classification based Mode Skipping and Texture Complexity based Depth Skipping for Fast Intra Coding in H.266/VVC Screen Content Coding
Ikenaga	Key Points Trajectory and Multi-level Depth Distinction based Mirror and Glass Detection for Indoor 5G Signal Analysis
Ikenaga	Pyramid Spatial Feature Transform and Shared Offsets Deformable Alignment based Convolutional Network with Feature Selection for HDR Imaging
Ohsawa	Ternary-Input Binarized Neural Network (BNN) Accelerator with High Linearity based on Negative Feedback Current-Voltage Converters
Ohsawa	A Nonvolatile Logic Circuit based on Magnetic Tunnel Junction (MTJ) for Large-Scale Binalized Neural Network Accelerators
Shinohara	A 7T SRAM Physical Unclonable Function with High Sensitivity to pMOS Mismatch for Efficiency by Negative Bias Temperature Instability
Shinohara	A True Random Number Generator with Negative Bias Temperature Instability for Mismatch Compensation
Yoshimasu	A 38 GHz 4-stacked FET Power Amplifier with a Novel Phase Linearizer in 40-nm CMOS SOI
Yoshimasu	A 24-29 GHz Driver Amplifier with Negative Feedback in 40-nm CMOS SOI
Yoshimasu	A 13-28 GHz Wideband LC-VCO With a Self-Switched Voltage-Control Novel Varactor in 40-nm CMOS SOI
Yoshimasu	A 14-GHz-Band Low Power LC-VCO with a Self-Bias Feedback Circuit in 40-nm CMOS SOI
Yoshimasu	A 50-70 GHz Low Insertion Loss and High Isolation SPDT Switch in 40-nm CMOS SOI
Yoshimasu	A 28 GHz/38 GHz Dual-Band 4-stacked FET Power Amplifier in 40-nm CMOS SOI