

情報アーキテクチャ分野

研究室	修士論文タイトル
藤村	Supplier Selection and Order Allocation based on Bi-leveling Programming Model and AHP-Weight Method
藤村	An NFT marker based AR manual system providing hand gesture and voice interaction
藤村	Pedestrian Detection in Adapting Daytime and Nighttime with Thermal Images Using a Classification Hypernetwork
藤村	A convolutional network model for steel surface defect detection based on multiple mechanisms
藤村	BASS-Based Uncertain Market Diffusion Model for Short Life Cycle Consumer Electronic Products
藤村	Unsupervised Detection of Anomalous Sounds for Machine Condition Monitoring Using Memory Autoencoder
藤村	Research on Introducing Customer Management to Vehicle Routing Problem in Cold Chain Background
藤村	Many-objective green Flexible Job Shop Scheduling based on improved NSDE-III
藤村	Monitoring Restricted Items of Logistics Based on Object Detection
藤村	Garbage classification system based on embedded system using deep learning convolutional neural network
藤村	House-sharing Recommendation based on Heterogeneous Information Network that solving the Data Sparsity and Cold-start Problems
藤村	The impact of uncertain lead time on imported short shelf life packaged foods with stochastic demand
藤村	Study of Total Flexible Job-shop Scheduling Problems Considering Worker Load
古月	Coarse-To-Fine Contour and Mask Collaborative Network for Accurate Biomedical Image Segmentation
古月	A Study of Action Recognition Based on Representative Frame Selection Method
古月	Image Based Single-View 3D Reconstruction with Soft-Attention Module
古月	A Study on Cold Start Problems in Recommender Systems with Meta-Learned Method
古月	A Study of Improved Building Extraction Network with Multi-scale Feature Fusion Attention Mechanism
岩井原	Visualizing Temporal Evolution of Keyphrases and Their Relatedness
岩井原	Click Count Prediction by Utilizing Link-Structural Text Embedding and Temporal Attention
岩井原	Ensemble of Bag-level BERT and General Entity BERT for Distantly Supervised Relation Extraction
岩井原	Supervised Learning of Keyphrase Extraction Utilizing Prior Summarization
岩井原	Multimodal Sentiment Analysis Based on BERT Text Encoding
岩井原	Integrating RoBERTa fine-tuning and User Writing Styles for Authorship Attribution of Short Texts
岩井原	Key Text Extraction for Long Document Classification
鎌田	MRI Brain Tumor Segmentation Using Two-Stage Coarse-to-Fine Network Framework
鎌田	Data Augmentation for Ancient Character Recognition Through MIX-Style Net
鎌田	Pulmonary Nodule Detection for Lung Cancer Using Improved ISODATA and R-CNN
鎌田	Unsupervised Depth Estimation Siamese Network From Stereo Using Matching Cost Fusion
鎌田	Derivative Feature Based Deep Residual Network for Low-Light Image Enhancement
小柳	Load Balancing of MySQL Database Cluster on Kubernetes
小柳	Research on Improved Scheme of Blockchain Consensus Mechanism
小柳	Research on the Task Scheduling Strategy in Apache Storm
小柳	A Lightweight DDoS Attack Detection Method in Software Defined Network
小柳	Research on Attack Path Generation Based on Q-Learning Algorithm
小柳	Research on Job Scheduling Optimization of Hadoop YARN
小柳	Research on Anti-Cheating Technology for Games Based on Blockchain Theory
小柳	Research on Computation Offloading Strategy in wireless powered Multi-Access Edge Computing Based on Deep Reinforcement Learning
ルパージュ	A first study on a dialogue system for an academic writing aid system
ルパージュ	Generation of sentences from corrupted sentences avoiding grammatical errors and plagiarism
ルパージュ	Machine translation for a less-resourced language: Manipuri (Meiteilon)
ルパージュ	Triple-GAN and Mask-and-Generate: two approaches for unsupervised text sentiment and style transfer
ルパージュ	Retrieval of similar sentences formally and semantically covering a sentence
松丸	深層強化学習によるロボットアームの動きのトレーニング
松丸	RGBビデオデータを使用した中国の交通管制ジェスチャの認識
松丸	無線ネットワークに基づくデバイスフリーの屋内での人間の日常活動の認識
松丸	リアルタイム単眼SLAMのためのポイントと顕著性特徴を組み合わせた高速でインクリメンタルなループクロージャ検出
松丸	ロボットシステムによる再現のためのRGB-Dセンサーを使用した平坦で柔軟な物体の変形の変形の推定
田中(二)	AR Smart House: Using Customized Interactive 3d Models to Control IoT Devices
田中(二)	AR Safety Education Software: Remind the Child and Make the Child Aware of Danger by Interacting With Indoor Items
田中(二)	Context-Aware AR Scheduling Assistant Using Personalized Avatars
田中(二)	An AR Document Collaboration System Combining Physical and Digital Content With Gesture Interactions
田中(二)	ARDiary: A Life Record System With Augmented Content and Physical Interactions
田中(二)	Magic Tour: An AR System Combined With Tangile Maps for Sharing Navigation
田中(二)	Scene Re-Experience: A New Design to Enhance Remote Communication
田中(二)	AR Fitness Coach - Exercise Assistant System for Body-Training Guidance and Motivation
坪川	An Implementation of FDTD simulation with dynamic display based on GPU parallel computing and CUDA-OpenGL interoperability
吉江	Emotion Source Identification in Group Discussion
吉江	A GPS-Free Entry and Exit Recognition Method for Smartphone Power Saving
吉江	An Imbalanced Node Classification Framework Based on Graph Convolutional Networks
吉江	Object Detection by Convolutional Neural Network with Multi-label Branch for Intermediate Supervision
吉江	Personalized-node-attention Graph Convolutional Network for Recommendation
吉江	A Weakly-Supervised Framework for COVID-19 Lesion Segmentation from Chest CT Image
吉江	Multi-layer Adaptive Feature Fusion for Fine-Grained Image Classification
吉江	Long and Short-Term Interest Based Attention Recurrent Neural Network Model for Short Video Recommendation

生産システム分野

研究室	修士論文タイトル
犬石	Study on the front and back side device structures and the layout design of the reverse conducting IGBT
犬石	New device structure design on the reverse conducting lateral IGBT on SOI
犬石	Improvement of the reverse conductiong IGBT by super junction

犬石	Structure design on an n channel lateral SOI IGBT with a p top resurf for emitter follower type complimentary IGBT
犬島	3D Object Detection from Point Cloud of Lidar for Autonomous Driving
犬島	3D Object Detection Method based on YOLO for Autonomous Driving
犬島	Point cloud map and localization by segmentation based on lidar
犬島	Large-Scale Place Recognition Based on Images and 3D Point cloud fused Descriptor for SLAM
犬島	Stereo Visual SLAM for Delivery Robot Using Point and Line Features
犬島	Stair Climbing Delivery Robot Design, Strength Analysis and Control
犬島	A New Loop Closure for Lidar NDT Mapping
李	Variable Sampling Region RRT for Emergency Evacuation Navigation in Urban Areas
李	Attention-based Bidirectional Long Short-Term Memory for Drowsy Driving Detection
李	Auto-Splitting Method using Improved Gap Statistics with k-means for Faster Path Planning in Large Map
李	Drowsy Driving Detection using Gated Recurrent Unit based on bidirectional Recurrent Neural Network
三宅	Molecular extraction and injection in living cells by pressure-controlled Au nanotube ducts
三宅	Wireless, stretchable contact lens sensors for intraocular pressure monitoring
三宅	Direct reprogramming of fibroblast cells using protein delivery through metallic nanotubes
三宅	Electrochemical control of neuron transmitters at the biodevice/cell interface
三宅	High efficient magnetic nanoparticle delivery into adhesive cells with magnetic field
三宅	Cellular transport enhancement using microtubule motors through gold nanotubes
三宅	Direct power generation from alcohol using enzyme/CNT composite fabrics
三宅	H+-mediated control of cell functions with nanoneedle arrays
大貝	Confidence-based Reinforcement Learning for Lane Change Behavior Policy
大貝	Safe decision policy making for autonomous driving in intersection scenario using reinforcement learning
大貝	Traffic signal detection and separation with yolov3
大貝	Auto brake pulling control using linear actuator for ULV
大貝	A path planning method for autonomous driving based on improved A-star algorithm
田中(英)	Kinect-based 3D human motion acquisition and evaluation system for remote rehabilitation and exercise
田中(英)	Development of a safe and compact lower limb device for motion guidance and assistance using stepper motor
田中(英)	Three-dimensional condition map integrated physical and mental state recognition for controlling the walking assistance device
田中(英)	Design of a bifunctional walking assistance exoskeleton without electricity power
立野	Study on Positioning Methods by Constructing Probability Distribution Map based on RSSI
立野	Sign Language Recognition System based on Hand Coordinate Detection by Motion Capture
巽	Partial discharge characteristics on epoxy-based nanocomposite under different experimental environments.
巽	Improvement of the reliability of interconnection in solar cells by using nickel micro-plating bonding (NMPB).
巽	The reliability of thick Ag wire wedge bonded on Al pad for power device

集積システム分野

研究室	修士論文タイトル
池橋	Design of A Microseismometer with Ultra-Small Resonance Frequency Enabled by Multi-Step Electrical Tuning
池橋	A MEMS capacitance varying charge pump
池橋	A Differential Pressure Monitoring System using Absolute Pressure Sensors with Colored-noise Kalman Filter
池永	Image Assistance and Bone-Length Stability based 3D Pose Estimation from Monocular Camera
池永	Directional DCT-Correlation with Monotonous Estimation for High Frame-rate and Ultra-low Delay Sub-pixel Location Detection
池永	Time-dependent Composite Frame-rate based CNN using Hybrid FPGA/GPU Configuration for Real-time Small Object Detection
池永	Critically Compressed Quantized CNN based High Frame Rate and Ultra-Low Delay Fruit External Defect Detection
池永	Multi-scale Ball Motion Feature Based Self-correcting Approximation Model for Monocular 3D Volleyball Trajectory Estimation
池永	Vote Address Selection and Timely Initialization for High Frame Rate and Ultra-low Delay Hough Transform
碓塚	Surface-Illuminated Photodiodes Employing Space-Traveling Electrons for Terahertz Applications
碓塚	Wire-Like Active Region Membrane Lasers on Silicon for Chip-to-Chip Optical Interconnect
碓塚	Dual-Bias-Voltage Space-Traveling Carrier Photodiodes for Terahertz-Wave Generation Systems
碓塚	Directly Modulated Distributed Reflector Lasers Using Detuned-Loading Effect for Extended Optical Fiber Transmission Reach
木村	Energy-Efficient Approximate Floating-Point Multiplier Based on Radix-8 Booth Encoding
木村	Ensemble Reduction on Random Forest by Logical Minimization
木村	Hybrid Methods Composed of Multiple Annealing and Classical Algorithm to Prime Factorization Problem
木村	Configurable Approximate Multiplier Using Self-Recovery Approximate 4-2 Compressors
木村	SAT-based Exact Synthesis of XOR-Majority Graphs
大澤	Weight Scaling of ReRAM Crossbar Array for Neural Networks to Increase the Robustness against Hardware Variabilities
大澤	Evaluation of Radiation-Induced Soft Error in Bi-Stable Memories Based on N-Curve
大澤	Impact of Dummy Cell Averaging in Clamped Bit-Line Sense Amplifier on High Density Memory Chip Yield
大澤	A Two-Step Training of Binary ReRAM Array Based on Hardware Measurement to Recover Accuracy Degradation due to Statistical Variabilities
大澤	A New Training Method of Large-scale ReRAM Crossbar Arrays to Compensate Accuracy Degradation by Parasitic Wire Resistance
大澤	A DRAM Based Inference Machine Using Analog Activation and Pulse-Width-Controlled Weight
篠原	An 8T Hybrid SRAM True Random Number Generator Using Hot-carrier Injection for Mismatch Compensation
篠原	A 7T SRAM Physical Unclonable Function with Negative Bias Temperature Instability for Stability Enhancement
篠原	Margin Test for Hot Carrier Injection Stabilized Hybrid SRAM PUF Using a Bias Generator
篠原	Probability Multiplier in Stochastic Computing and Application to Extended Naive Bayesian Inference
篠原	A SRAM Strong PUF with Hot Carrier Injection Burn-in and Redundancy
篠原	A Latch-Based True Random Number Generator with Adaptive VSS Bias Tuning for Robust Operation
篠原	A Modeling Attack Resilient Strong PUF with High Throughput and Low Energy
篠原	An Extended Naive Bayesian Network and Stochastic Number Generator for Bayesian Processor
篠原	Decorrelation and Debiasing Post-Processing Circuits for TRNG
高畑	Laser Cleaning Analysis with an Ablation Model for Rust Removal on Steel Surface.
高畑	High Repetition-Rate Passively Mode-Locked Fiber Laser at 2- μ m Band
高畑	Multifunctional All-Optical Logic Gate Based on 3×3 Multi-Mode Interference Coupler
高畑	Performance Analysis on Millimeter-Wave Radio-over-Fiber System using Self-Heterodyne Detection.
高畑	Design of a Compact Silicon Mach-Zehnder Interferometer Based on Kagome Valley-hall Photonic Crystal
高畑	Design of a Slow-Light Silicon Optical Buffer Based on Valley Photonic Crystal
吉増	A 28-GHz High Efficiency Stacked-FET Power Amplifier with Novel Adaptive Load Circuit in 45-nm CMOS SOI
吉増	A 14-GHz-Band Low Phase-Noise LC-VCO IC with Harmonic Tuned LC Tank in 45-nm CMOS SOI
吉増	A 38-GHz-Band 4-stacked FET Power Amplifier with Novel Phase Linearizer in 32-nm CMOS SOI
吉増	A High Conversion Gain Down-Conversion Mixer with a Self-biased Transconductance Stage in 45-nm CMOS SOI for UWB Applications
吉増	A 14-GHz-Band Low Power LC-VCO with Self-Bias Source-Follower Feedback in 45-nm CMOS SOI
吉増	A 24-GHz-Band High Linearity Low Noise Amplifier IC with Adaptive Bias in 45-nm CMOS SOI
吉増	A Low Power Low Noise Amplifier with Noise Cancellation in 45-nm CMOS SOI for UWB Applications
吉増	A 28-GHz-Band Up-conversion Mixer with Novel Folded Sub-harmonic Structure in 45-nm CMOS SOI