情報アーキテクチャ分野

研究室	修士論文タイトル
藤村	An Improved NSGA-III for energy-conscious many-objective flexible job-shop scheduling problem under time-of-use electricity tariffs
藤村	Genetic Algorithm for Assigning Autonomous Guided Vehicles in Warehouse
藤村	敵対的生成ネットワークに基づく画像ステガノグラフィーの改良手法
藤村	Human Activity Recognition Based on Sensor Data
藤村	Pharmacies Retailing Forecasting by Using LSTM Model Based on Covid-19 Trend and Online Searching Behaviors
古月	Multi-level Item Representation Learning for Sequential Recommendation
古月	Contrastive Learning with Hybrid Loss Function for Solving Item Cold-Start Recommendation
古月	An Optical Flow Model Improved using Global Correlation Information
古月	Residual Network with Multi-Level Channel Attention for Image Super-Resolution
古月	Lane Detection Based on Self-learnable Line Anchors and Self-attention Mechanism
古月	A study of sparse anchor-based object detection in crowded scenes
古月	Multi-Scale Dilated Convolution Networks for Skeleton-Based Action Recognition
岩井原	Few-Shot Multi-Label Aspect Category Detection Utilizing Prototypical Network with Sentence-Level Weighting and Label Augmentation
岩井原	Mapping Wikipedia Categories and Lists to DBPedia Ontology Based on Structural and Semantic Features
岩井原	Answer Prediction for Commonsense Multiple-Choice Questions by Utilizing Pretrained Language Model, Knowledge Graph and Additional Information
鎌田	Skeleton-Based Action Recognition Using Spatial-Temporal Hypergraph Networks
鎌田	老化指標のためのスパースハイパーグラフネットワークによる眼底年齢推定
鎌田	Recurrent Frequency-Aware Transformer for Endoscopic Video Super-Resolution
鎌田	Kuzushiji Recognition for Ancient Documents Using Triplet Feature Mixer
ルパージュ	文単位の自然性を中心にする初心者の日本語文章の自動訂正と自動評価
ルパージュ	Predicting missing sentences in multilingually aligned matrices of sentences
ルパージュ	Resolution of analogies between strings in the case of several solutions
ルパージュ	Improving the writing style of NLP article drafts written in English by introducing lexical bundles
松丸	Anchor-Level Pseudo Labeling for Mixed Unknown Challenge of Open-Set Object Detection
坪川	Study on Crosstalk Suppression in Small Diameter, High Density Multicore Fibers
坪川	Study on the Dynamic Bandwidth Allocation Algorithm of EPON for 5G Requirements
吉江	Layered image generator by deep learning
吉江	A study on lettering evaluation in comic translation
吉江	AR speech balloon using emotion-cause pair extraction for deaf people conversation
吉江	事前学習モデルを用いたディープフェイク音声検知の対雑音ロバスト性向上に関する研究
吉江	Portfolio Management in Cryptocurrency Market using TD3 Algorithm
吉江	A study on performance of high-speed packet I/O framework Netmap based on NS-3
吉江	深さ単位分離可能な畳み込みを用いた軽量リアルタイム物体検出モデル
吉江	Anime Recommendation Using Knowledge Graph Based on Character Features and Production Information
吉江	A homogeneous model-based decentralized Actor-Critic method for urban traffic control

生産システム分野

研究室	修士論文タイトル
李	Modified U-NET for Fast Sampling Path Planning
李	Deep Learning-based Trajectory Prediction using Improved HiVT
李	High-frequency Financial Time Series Forecasting based on ARMA-LSTM Model
李	Deep Reinforcement Learning of Autonomous Vehicles at Unsignalized Intersection
三宅	Sodium-selective biotransducers for bioapplications
三宅	Microfluidic control system for drug release from electric contact lenses
三宅	Cytosol transfer system using nanotube-based injectors
三宅	Microbeads delivery through Au nanotubes for cytotoxicity evaluation
三宅	Biomarker detection using enzyme/mediator/surfactant/carbon nanotube composite fibers
三宅	Intracellular molecule delivery through hybrid nanotubes of using gold and motor proteins
三宅	Iontophoretic drug delivery system using a biobattery on a contact lens
高橋	水溶性Li+@C60の放射線増感作用に関する研究
田中（英）	A motorless walking assistive device powered by integrated dual slider-lever mechanism
田中（英）	Development of immediately gait-adaptive method for a compact ankle assistive robot
田中（英）	Development of a wearable upper limb assistive device with remote center of motion mechanism
立野	受信電波強度の屋内特性を考慮したフィンガープリントによる位置推定法
巽	Niマイクロメッキ接合（NMPB）による太陽電池インターコネクションの信頼性向上
巽	Niナノ粒子を用いたパワー半導体デバイス実装のための応力緩和型接続構造の検討
巽	Agナノ粒子を用いた接合緩和構造の検討
巽	半導体パッケージ用ニッケルメッキ銀線とアルミパッドとの接合部の信頼性に関する研究
巽	Niマイクロメッキ接合を用いた応力緩和型高耐熱実装技術の研究

集積システム分野

研究室	修士論文タイトル
池橋	Taper Detecting Methods for High Aspect Ratio Through Silicon Deep Reactive Ion Etching
池永	Visible Joint Classification and Temporal Segment Matching with Specific Constraints of Action based 3D Pose Refinement for Volleyball Receive Analysis
池永	CU Content Classification based Mode Skipping and Texture Complexity based Depth Skipping for Fast Intra Coding in H.266/VVC Screen Content Coding
池永	Key Points Trajectory and Multi-level Depth Distinction based Mirror and Glass Detection for Indoor 5G Signal Analysis
池永	Pyramid Spatial Feature Transform and Shared Offsets Deformable Alignment based Convolutional Network with Feature Selection for HDR Imaging
大澤	Ternary-Input Binarized Neural Network (BNN) Accelerator with High Linearity based on Negative Feedback Current-Voltage Converters
大澤	A Nonvolatile Logic Circuit based on Magnetic Tunnel Junction (MTJ) for Large-Scale Binalized Neural Network Accelerators
篠原	A 7T SRAM Physical Unclonable Function with High Sensitivity to pMOS Mismatch for Efficiency by Negative Bias Temperature Instability
篠原	A True Random Number Generator with Negative Bias Temperature Instability for Mismatch Compensation
吉増	A 38 GHz 4-stacked FET Power Amplifier with a Novel Phase Linearizer in 40-nm CMOS SOI
吉増	A 24-29 GHz Driver Amplifier with Negative Feedback in 40-nm CMOS SOI
吉増	A 13-28 GHz Wideband LC-VCO With a Self-Switched Voltage-Control Novel Varactor in 40-nm CMOS SOI
吉増	A 14-GHz-Band Low Power LC-VCO with a Self-Bias Feedback Circuit in 40-nm CMOS SOI
吉増	A 50-70 GHz Low Insertion Loss and High Isolation SPDT Switch in 40-nm CMOS SOI
吉増	A 28 GHz/38 GHz Dual-Band 4-stacked FET Power Amplifier in 40-nm CMOS SOI