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31-33 GHz CMOS PA For Ka-Band Radar System

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5G MIMO Antenna with Isolation Effect for Handheld Device Applications

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A 0.5V True-Single-Phase 16T Flip-Flop in 180-nm CMOS for IoT Applications

A 24-28 GHz Frequency Synthesizer for 5G Applications

A Buffer Circuit for the Interface of RF and Baseband System

A Compact Multi-Bands Antenna for 4G Mobile Terminals

A Deep Metric Learning Method with Combined Loss of Triplet Network and Autoencoder

A Development Support Tool for Fault-tolerant Routing Methods on Network-on-Chips

A DRL based Real-time Computing Load Scheduling Method

A Fault-Tolerant Routing Method Using Bus Functions in Two-dimensional Torus Network-on-Chips

A Fully Self-locking/Interlocking Switch Circuit Using Signal Mutual Control

A Hair Volume Analysis System Using Deep Learning and Image Processing Technologies

A Hybrid Model of CNN-SVM for Speakers' Gender and Accent Recognition using English Keywords

A IoT System for Vehicle Tracking using Long Range Wide Area Network

A Lightweight Fine-Grained Action Recognition Network for Basketball Foul Detection

A Matrix Inversion Free Method for Computing Katz Centrality of Taipei Metro System Using Neumann Series

A Mirror-based Personal Health Monitoring System Integrating Wearable Devices and Non-contact Measurements

A Mobile App for Travel: Knowing the Foreign Food from the Tastes of Food in Our Memory

2021 IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW) | 978-1-6654-3328-0/21/$31.00 ©2021 IEEE | DOI: 10.1109/ICCE-TW52618.2021.9602951

A Mobile Application-Based Learning Aid Developer for Teaching Visually Impaired Students

A Multi-lead ECG Acquisition Device Base on Bluetooth Microcontroller

A New Approach of RoF System Using Optoelectronic Oscillator and Discrete Mode Laser

A Novel Bird Detection and Identification based on DPU processor on PYNQ FPGA

A Posture Features Based Pedestrian Trajectory Prediction with LSTM

A Property Management System Using Image Recognition by YOLO

A Proposal for Testing Physical Random Numbers Using Stochastic Process

A Real-time Posture Recognition System using YOLACT++ and ResNet18

A research of Hartmann-Shack Wavefront Aberration measurement system validation technology

A Retention-Error Mitigation Method on TLC NAND Flash Memory for CE Storage Systems

A Similarity Calculation Method for Originality Evaluation

A Smart Mini Marine Fish Tank System Based on AIoT Technology

A Study of Development an English Vocabulary Learning Companion Robot Based on Progressive Prompting

A study of Wavefront Aberration Measurement Technology based on Centroid Calculation

A Study on Control Parameter and Output Sequence of the Logistic Map over Integers for Pseudorandom Number Generation

A Study on Digital Watermarks for Audio Signals Using Phase of Frequency Signals in Addition to the Other Methods

A Study on effect of Advertisement Insertion to QoE in Video Streaming Services

A Study on Relationship Between Period and Number of Divisions in Piecewise Logistic Map over Integers

A Study on Speech Enhancement Using Deep Temporal Convolutional Neural Network

A Study on Use of Machine Learning to Evaluate the Security of Common Key Cryptosystem

A theoretical-practical model for 4k multimedia system for wireless communication by light

A Uniplanar Multi-Band S-shape Antenna for Smart Phone Applications

Accuracy Improvement of Deep Learning 3D Point Cloud Instance Segmentation

Adaptation to Changes in the Number of Users in P2P Content Sharing System Using Dynamic Fog

Adaptive Color Calibration for Digital Cameras

Admission Control Scheme with Balancing Power Negotiation Algorithm for Home Energy Management and Control System

Age Estimation Model Using Multi-Class Architecture and Adaptive Regression Models

AI in eHealth: Diagnosis of Parkinson's Disease with Augmented Reality

AI-based Emotion Recognition System with Tensor Decomposition Optimized Pre-processing

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An Energy-efficient and Programmable RISC-V CNN Coprocessor for Real-time Epilepsy Detection and Identification on Wearable Devices

An Improved EEG-Based LRCN Emotion Recognition System Using Fuzzy Processing on ECG and PPG Features

An Interactive Modular System and Interface for Laerdal Little Anne™ Manikin in CPR Training

An Optimal Curve Parameters for BLS12 Elliptic Curve Pairing and Its Efficiency Evaluation

An optimized 3D Astar algorithm for multi-layer PCB automatic routing

An RSSI-Based Device-Free Localization System for Smart Wards

An ultrasound system for the detection of dental caries prevention

AN-Coded Redundant Residue Number System for Reliable Neural Networks

Analysis of the Performance Impact on Dynamic Comparator for Analog to Digital Converter Under Process Mismatch

Analyze the Audience's Perception of YouTube Online Video Advertisements

Analyze the subordination structure between domain-specific vocabulary and meaning with the Word2Vec training process

Anti-multipath near-field localization in multi-path underwater acoustic channel

Application of Whale Optimization Algorithm in the Optimization of Lithium Battery Parameters

Applications of Grammar-Concept Understanding and Value Trace Problems to Novice Students for C Programming Learning

Applying Neural Network Algorithm of MIMO Log-normal Channel for OFDM/OCDMA System

Assessing Quality of Experience of 4k Video Streams Using No-Referenced Metrics

Attendance Monitoring System based on Artificial Intelligence Facial Recognition Technology

Automated Detection System for Acoustic Signal of Breath

Automatic Data Acquisition of Indoor Environment Using the Autonomous Mobile Robot

Automatic Deployment Mechanism for Smart Communication Service Based on Container Technology

Automatic Door Detection of Convenient Stores based on Association Relations

Automatic Incremental Training of Object Detection by Using GAN for River Level Monitoring

Automotive Radar Precision Calibration with Compact Antenna Test Range

Autonomously Vehicle Network PIDs Parsing to Support Threat Monitoring and Early Warning Research

Behavior Detection in Supermarket Based on Image Caption with UNITY

Behavior Recognition Algorithm Using Unsupervised Learning for Home Elderly

Binary- and Multi-class Network Intrusion Detection with Adaptive Synthetic Sampling and Deep Learning

Bio-medical Image Analysis for Diagnosis and Healthcare Detection System of Skin Cancer

Block Scrambling Image Encryption Used in Combination with Data Augmentation for Privacy-Preserving DNNs

Block-Based Compression for Reducing Indexing Cost of DNN Accelerators

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Children's Implicit Authentication based on Gesture Feature for Smartphone

Circuit Implementation of Convolutional Neural Network for Human Activity Recognition

Circuits Design Low-Phase Noise Colpitts VCO with Gm-Boosting

CMOS Capacitive Fingerprint Sensing Scheme with Transition Band of Low Pass Filter

Combined ZnO nanorod humidity sensors and DSCs for IOTs application

Comparison of Sliding Mode Functions for the High-Frequency Switching Power Converters

Comparisons of Dielectric Characterization by Microstrip and Grounded Coplanr Waveguide Using Resonator Measurements

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Construction Strategy of Enterprise Security Management Blockchain based on Capsule Network and Situation Awareness

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Cross-view Self-supervised Learning via Momentum Statistics in Batch Normalization

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Data Transmission Efficiency of the Nonorthogonal CSK-used Optical Code Division Multiple Access System

DDM: Delay driven layer assignment algorithm based on deployment mechanism

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Deep Residual and Deep Dense Attentions in English Chinese Translation

Defect Detection on Wafer Map Using Efficient Convolutional Neural Network

Degradation Level Estimation of Road Structures via Attention Branch Network with Text Data

Degradation of Metal Corner Reflectors' Radar Cross-Section in a Radome with Imperfect Characteristics

Delay-based Task Offloading for Fog Computing in IoT Networks

Depth Information based Image Restoration Method for Rotors

Descriptor Sampling VLSI Design Based on BRIEF Algorithm for Surrounding View Application

Design and Evaluation of Children Library App Interface

Design and Implement a Mobile Fitness Application based on Realtime Image Detection

Design and Implement a Smart Umbrella Stand System with Instant Message Application

Design and Implementation of Intelligent Identification System of Meter System Based on OpenCV

Design and Implementation of Smart Agricultural Systems Based on Networked PLC and Mobile App

Design and Implementation of Smart Home System Based on OneNet Cloud Platform

Design of e-Health System for Heart Rate and Lung Sound Monitoring with AI-based Analysis

Design, Integration, and Verification of a Low-Cost Nailfold Capillaroscopy

Detecting Test Audio Signal Automatically with Fourier Analysis and Pattern Recognition

Detection and Recognition of Inframammary Fold on MLO-view Mammograms

DETECTORS++: The Robust Baseline for a Defect Detection System

Development and Evaluation of Innovative Service Design Based on RFID Tag in medicine's Safety Applications and Recycling

Development of a fake news checking crowdsourcing platform consisting of smart contracts combined with gamification

Development of a Leakage Energy Recovery Applied to Full-Bridge Converter

Development of a Smart Multifunctional Visitor Identification System

Development of A Wearable Device of Measuring Viewing Distances in Smartphone Use

Development of AI-based Recycling Bins Using MobileNet-SSD Networks

Development of an ADHD Chair to Promote Safe Fidgeting While Monitoring Symptoms

Development of an Electronic Stethoscope Using Raspberry

Development of Fuzzy-Logic-Based Controllers for Energy Conservation in Human-Electric Bikes

Development of human-friendly plant cultivation pot using IoT

Development of Skin Sensing Module for Safety Control in Human-Robot Collaboration

Direct Computation of Discrete Cosine Transform Algorithm and Its Hardware Architecture Design for Mel-scale Frequency Cepstral Coefficients

Discovering Behavior Patterns of Solitary Elderly Based on Machine Learning

Discussion on the recent development of OTT platforms in Taiwan

Distributed Multi-Dimensional Scaling Localization Algorithm Based on Improved Centralized Matrix

DLL-Based Transmit Beamforming IC for High-Frequency Ultrasound Medical Imaging System

Dynamic sample selection method based on classification prediction

Effect of Position Follow-up Control for Hand Delivery between Remote Robot Systems with Force Feedback

Effective Two-Stage Processing Based Lite Deep Learning Classifier for Gender Detection

Effects of Olfactory Memory on Augmented Gustation

Efficient Computation of Depthwise Separable Convolution in MoblieNet Deep Neural Network Models

Efficient Hand Gesture Recognition System based on Computer Vision: An Overview

Efficient muscle signal collection system of wireless body sensor network based on EMG

Elder action recognition based on convolutional neural network and long short-term memory

Emotion Recognition of the Elderly Living Alone Based on Deep Learning

Enhance Face Recognition Using Time-series Face Images

Enhanced Image Quality Assessment Based on Halftoning Metrics

Error Correctable Range-Addressable Lookup for Activation and Quantization in AI Automotive Electronics

ESD-Immunity Impact of HV pLDMOS with Drain-side Embedded Horizontal P-type Schottky Modulations

Evaluating effect of interference on MAC delay in densely deployed IEEE 802.11ad based In-vehicle communications

Evaluating features of Moto Park using The Kano Model

Evaluation of Attention Mechanisms on Text to Speech

Evaluation of Data Augmentation on Surface Defect Detection

Evaluation of Face Recognition with Wearing Mask or Not

Evaluations of Fingerprint-based Indoor Positioning System Using IEEE 802.15.4

Eye Movement Analysis for Consumer Devices

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Facial Age Estimation by Learning Label Distribution CNN

Fatigue Estimation using Nonlinear Disturbance Observer for Tele-Rehabilitation System with Electrical Stimulation

FB-KEA: A Feature-Based Keyword Extraction Algorithm for Improving Hit Performance

Font-End Integrated Circuit Design for Plant Physiological Sensing

FoodTemi: The AI-Oriented Catering Service Robot

Forward Vehicle Detection Based on Thermal Vision and Convolutional Neural Network for Autonomous Vehicles

Frequency Selective Filtering of Graph Signal in Directed Graph Fourier Transform Domain

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Gender perception of robots with different anthropomorphism

Generation of Gradient-Preserving Images allowing HOG Feature Extraction

Generative Adversarial Networks-based Face Hallucination with Identity-Preserving

Glass-based fluorescent immunobiosensor used for urea albumin fast detection

Graph Signal Denoising Method Using the K-Nearest Neighbors Found by Dijkstra's Algorithm

Green Coffee Beans Classification Using Attention-Based Features and Knowledge Transfer

Hardware Generator for Edge Artificial Intelligent Inference System

Hardware Implementation for Fending off Side-Channel Attacks

Heart Beat Classification Method based on Random Forest Algorithm

High Voltage a-IGZO Thin Film Transistor for 3D IC Application

High Voltage GaN Driver using EED Architecture

High-efficient Semantic Segmentation for Internet-of-Things-enabled Smart Cameras

High-Level Synthesis Considering Cache Minimization for Continuous-flow Microfluidic Biochips

High-Level Synthesis for Continuous-Flow Microfluidic Biochips Considering Flow-Channel-Intersection Optimization

High-Order Sychrosqueezing Transforms and Its Application for Highly Accurate Animal Voice Analysis

High-speed High-resolution Image Capture by Using Phase-shift Photographing for Periodic Motion of Machine Element

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Hybrid BP-SC/SCF Decoding for Polar Codes

Identification System of Fish Freshness Based on Deep Learning

Identifying IoT Devices with SMTP

Image Enhancement Based on Generative Adversarial Neural Network

Image Quality Analysis Technique for Optical-Based Fingerprint on Display(FoD) Applications

Impact of Investor Sentiment on Stock Returns Using Fine-tune BERT

Implementation of a Novel Intelligent Drowsiness Detection Warning System

Improved Deep Learning in Citrus Canker Recognition System Based on FPGA

Improved UHV IGBT-Cell for ESD Protection with High Holding Voltage via a 0.5μm BCD Process

In-Box Picking System Design for Six-Axis Robot Arm

Influencing Factor Considerations for Designing a High-Performance Compact Antenna Test Range (CATR)

Infrared imagery super-resolution by using a generative adversarial network

Innovative CAPTCHA to Both Exclude Robots and Detect Humans with Color Blindness

Integrated infrared image system within accurate detection

Integrating deep learning for 360-degree video applying to space user flow and behavior patterns

Intelligent Mango Fruit Glade Classification Using AlexNet with GrabCut Algorithm

Investigating the Design of the Emotion Function of an APP for Children's Libraries

Investigation on Error-Tolerability Enhancement of Videos via Re-Encoding for Computer Vision: A Case Study on Object Detection

Investigation PPG sensor and reflected intensity of the LED irradiated light

Is Wearable Input Devices Better for 3D Modeling on Tablet? A Case study

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Learning Pattern Discovery and Prediction using Decision Tree for SPOC Teaching

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Lossless Image/Video Embedded Compression for Memory Bandwidth Saving of AI Applications

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Markov-chain Analysis Model based Active Period Adaptation Scheme for IEEE 802.15.4 Network

Measurement and Analysis of IC EMI synchronous signal

Method for Detecting Boar Abdominal Characteristics based on Deep Learning

Method of ECG Lead Recovery from 3-Lead to 12-Lead

Meticulous Alignment for On-Display Fingerprint Sensor on Smartphone

Mobile User Density Estimation Based on Graph Laplacian Regularized Recursive Least Squares

Model-based Local Distortion Flow Estimation for Wide-angle Image Rectification

Modeling of Convolutional Neural Network Circuits for Human Activity Recognition

Modified Attention Spatial Convolution Model for Skin Lesion Segmentation

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Multi-threaded System Design of A Multi-Precision Deep Learning Accelerator on FPGA with Optimized Memory Usage

Multibeam Radiations of Aperiodic Phased Array of Antennas Excited by Fisheye Lens BFN

Music Mood Classification System for Streaming Platform Analysis via Deep Learning Based Feature Extraction

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On the Simulation Analysis for a Wideband Common-mode Filter with Defected Corrugated Reference Plane Structure

Online Learning for Network Traffic Data Classification

Opinion Leaders in Internet Public Opinion: A Case Study on the Controversy of U.S. Pork Containing Ractopamine

Optical Comb Generator-based Microwave Photonic Filter Performance Improvement Using Multilayer Perceptron (MLP) Neural Network

Optimization and realization of Network Time Protocol on IIOT

Optimization of the Stack Structure of Electronic Paper Display Modules by Using the Taguchi Method

Optimized Manpower and Location Scheduling Query for Shop Promotion Based on Records of Bicycle Sharing System

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Performance analysis of service architectures applying queueing systems

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Performance Evaluations of Hand Number Gesture Recognition by Convolution-Based Deep Neural Networks

POI recommendation model based on Attention-based Gated Recurrent Unit Network

Power Generate Trend Prediction with Machine Learning on Independent Green Energy Smart Power Monitoring and Big Data Collection and Analysis System

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Robotic Grasping Strategies Based on Classification of Orientation State of Objects

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Robust Remote Sensing FBG Sensor System Using Bidirectional-EDFA Techniques

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Sales Forecasting Using ANNs or RNNs - A Case Study of Freeway Service Station in Taiwan

Secrecy Rate Analysis in The Cooperative Communication System

Secure Comparison Protocol for Promoting Business to Business Collaboration on the Blockchain

Selective Microwave Ablation Using Low Power Monolithic Microwave Heater

Self-supervised Learning Aided Blind Stitched Panoramic Image Quality Assessment

Sensing Error Compensation Algorithm for Ultra-Wideband Following Systems

Sequential Least Squares-Based Traffic Estimation for Anomaly Detection in Cloud Computing Environments

Signal Control Switching Applied on Large Array Devices' Layouts

Sleep Stage Prediction Based on Monotonous Sensing Data Using Convolutional Neural Network

Smart Augmented Reality of the Perspective-Taking Application of Exhibits

Smart Garden Monitoring and Irrigation System in Multiplatform Application Using IoT

Smart Multi-mode Networking Architecture for Internet of Everywhere Using NB-IoT and LoRa

Smart Plug Prototype for Residential Electrical Energy Monitoring

Software and Hardware Integration System Design with Fruit Identification for Smart Electronic Scale Applications

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Statistical Language Models for Spelling Error Detection with Web Search New Word Acquisition

Storage Minimization Considering System Conditions of Power Flow System

Study of flower image classification using deep learning to support agricultural pollination

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Superpixel algorithm for objects tracking in satellite video

Synchronization and Asymmetric Error Correction for Nanopore Sequencing

Testing Machine Learning Models for Individual Emotion Estimation from Indoor Environment Data

The Body Sensor Suit with Mixed Reality Interactive Games

The Development and Implementation of a Smartphone Based Archery Analysis System

The effect of children's belongingness on online knowledge-sharing behaviors in a library virtual book

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The effect of reducing the acoustic-frequency resolution for spectrograms used in deep denoising auto-encoder

The Effect of Time Lag between Servers on QoE of Multi-View Video and Audio Transmission

The Efficacy of Heart Spectrum Blood Pressure Monitor: A Study of Bus Drivers

The Efficacy of Radar Absorption Material on the Radar Cross Section Reduction of Simple Shapes

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The Utilization of Big Data Analysis on the Food Delivery Platforms in Taiwan

Thermal Pad Design Flow for Automotive Electronics

Toward the optimal control of haptic communication - Introduction of force prediction to collaborative work -

Towards Personalized Real-time Cardiodynamic Status Monitoring: Multi-scale Modeling of the Heart Sound

Traffic Agent Trajectory Prediction Using a Time Sequence Deep Learning Model with Trajectory Mapping for Autonomous Driving

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Ultrasonic blood flow rate monitoring

Ultrasound Phased Array Radar Design for Ranging and Direction of Arrival Estimation

Un-rectifying ReLU Deep Neural Network in Compressed Sensing Recovery

Unit Traffic Classification by Two-stage Clustering on P2PTV Applications

Unveiling of How Image Restoration Contributes to Underwater Object Detection

Use subsequent neural network to analyze ICEMI

User Background Information-Aware Music Recommendation with Reinforcement Learning-Based

Knowledge Graph Exploration

Using AI on Improving the Performance of Streaming Video and Audio

Using Machine Vision Based of Preventive Maintenance and Management of Historic Buildings

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Vehicle Turning Intention Prediction Based on Data-Driven Method with Roadside Radar and Vision Sensor

Velocity Prediction for MIDI Notes with Deep Learning

Voice Activity Detection by Joint MRCG and MFCC Features with Robustness Detection based GRU Networks

Vulnerability Assessment for Deep Learning Based Phishing Detection System

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WBTP-VTON: Whole Body and Texture Preservation based Virtual Try-On Network

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ZYELL-NCTU NetTraffic-1.0: A Large-Scale Dataset for Real-World Network Anomaly Detection