

Session	Paper ID	Title
Signal Processing- I (SP-I)	1570392059	Adaptive Optimization of Non-Constant Luminance to Constant Luminance for HDR Video Distribution
	1570397437	Fast Airlight Estimation Algorithm in Dark Channel Prior for Image Dehazing Applications
	1570398374	Haze Removal Using Inversed Haze Thickness Map for Multispectral Remote Sensing Images
	1570397387	A DOA Estimation Algorithm Exploiting Multiple FM Channels for Passive Bistatic Radar
	1570397427	Linear Spectral Clustering with Mean Shift Filtering for Superpixel Segmentation
	1570398241	Efficient GPU Implementation of a Sparse Affinity Tensor for High-order Graph Matching
Signal Processing- II (SP-II)	1570399092	Vision Based Vehicle Monitoring at Road Intersections
	1570399448	Applications of Multiscale Transforms to Image Denoising: Survey
	1570400222	Robust Pedestrian Height Estimation Using Principal Component Analysis and Its Application to Automatic Camera Calibration
	1570401300	Automatic Estimation of Distortion Coefficient for Correcting Radial Distortion
	1570398329	2D Intensity Images From Sparse LIDAR Data in Urban Environment
Signal Processing- III (SP-III)	1570402107	Fast object tracking using Kernalized Correlation Filter and Kalman estimates
	1570402108	Unconstrained Color Correction Using Metamers (UCCM) For Display Devices
	1570399595	Saliency detection using selective combination of color and directional features
	1570398387	Contrast Enhancement of Low-light Image Using Histogram Equalization and Illumination Adjustment
Communications - I (C-I)	1570396142	Millimeter Wave Spectrum Sharing Between IMT-2020 (5G) and Ground-Based Radar Systems
	1570396285	Opportunistic User Scheduling for Network Secrecy Rate Enhancement in Downlink with Potential Eavesdroppers
	1570405078	Dynamic Mobile Cloudlet Cluster for fog Computing
	1570398010	Impact of Dynamic Control Format Indicator on Downlink Throughput Performance in LTE System
	1570395446	Computationally Efficient Signal Detection for MIMO SC-FDMA Systems with Block Circulant Channel Structure
	1570396021	Outage Probability of Simultaneous Wireless Information and Power Transfer in Heterogeneous Information/Energy Ad Hoc Networks
Communications - II (C-II)	1570398371	Resource Allocation Scheme based on Vehicle Position
	1570399536	Multi-core DSP-Based Implementation of Variable Data Rate OQPSK/TDMA Satellite Receiver
	1570400047	Adaptive Geo-Fencing with Local Storage Architecture on Ad Hoc Networks
	1570402892	Reconfigurable Vehicular Communication Platform Based on ETSI Radio Virtual Machine
	1570398338	CMOS Transmitter and Receiver for Spin-Torque Nano-Oscillator Based Wireless Communication
	1570398355	Comparison of Long Range UHF RFID Metal Pallet Tag for Auto-parts Logistic System
Communications - III (C-III)	1570403526	Source-Node-Independent 2-by-2 Linear Precoder for Amplify-and-Forward Two-Way Relay with Two Antennas
	1570403626	NI-USRP Based Experimental Evaluation of Cooperative Communication over Direct Communication in Lab Environment
	1570404154	Channel Characterization of an IEEE 802.11af Prototype at the University Campus Setting
	1570398396	Design and Analysis of Novel Precoding Scheme for LSAS Using Power Allocation
	1570399426	Spatial Capacity of LTE-based V2V Communication
Communications - IV (C-IV)	1570405106	Nash Equilibrium for Contending-type MAC Scheme in Wireless Passive Sensor Networks
	1570405823	Pricing Scheme for Revenue Maximization of MNO and MVNO
	1570411038	Design of Flexible Switch Matrix for Multi-channel RF Coil System

	1570400188	<i>Design and Implementation of Wi-Fi Ambient Backscattering Communication System using SDR Platform</i>
	1570403025	<i>Precise synchronization mechanism in wireless devices</i>
Computer and Information - I (CI-I)	1570392177	<i>On the Design of Web Crawlers for Constructing an Efficient Chinese-Portuguese Bilingual Corpus System</i>
	1570395989	<i>An Ensemble Based on Distances for a kNN Method for Heart Disease Diagnosis</i>
	1570400127	<i>An AR-based Support System for Learning Chemical Reaction Formula in Science of Junior High School</i>
	1570397310	<i>A soccer game in e-business? Playing seriously using e-banking with games characteristics</i>
	1570403334	<i>Heterogeneous System Implementation of Deep Learning Neural Network for Object Detection in OpenCL Framework</i>
	1570404270	<i>Classification of Machine-Translated Text Using Deep Learning</i>
Computer and Information - II (CI-II)	1570397311	<i>Map Generation to Detect Heat Stroke by Using Participatory Sensing Data</i>
	1570397611	<i>An Unsupervised Learning Method for Perceived Stress Level Recognition Based on Office Working Behavior</i>
	1570397678	<i>Acceleration of Dijkstra's Algorithm on Multi-core Processors</i>
	1570399433	<i>Using Body-Measurement Indices and Wrist-Type Photoplethysmography Signals to categorize Consumer Electronic Users' Health State through a Smartwatch Application</i>
	1570398064	<i>Speech Recognition Gateway for Home Automation on Open Platform</i>
	1570404616	<i>Derivation Comparison between 5-lead ECG System and EASI-lead System via Polynomial Regression</i>
Computer and Information - III (CI-III)	1570398186	<i>Method of Behavior Modeling for Detection of Anomaly Behavior using Hidden Markov Model</i>
	1570398248	<i>An Estimation of Road Surface Conditions Using Participatory Sensing</i>
	1570399821	<i>Symbolic Execution Using Approximate Computing (SEAC) — A Novel Branch Hazard Distribution Method</i>
	1570400110	<i>An AR-based Support System for Self-Study of Solar Orbit</i>
	1570407972	<i>Application to a Medical Diagnostic System by a Fuzzy Inference Model with Imprecise Rules</i>
	1570397577	<i>Coordinate-RNN for Error Correction on Numerical Weather Prediction</i>
Computer and Information - IV (CI-IV)	1570396879	<i>An Electroencephalogram Analysis Method to Detect Preference Using Gray Association Degree</i>
	1570400130	<i>A flexibly projected AR system of wall-mounted buttons</i>
	1570402820	<i>Assessing and Extracting Software Security Vulnerabilities in SOFL Formal Specifications</i>
	1570398277	<i>Fast Robot Software Framework with Object-Oriented Design</i>
	1570403198	<i>Fast Localization for Autonomous Driving based on Normal Distributions Transform</i>
System and Control - I (SC-I)	1570399840	<i>Modeling and Simulation of Worker Safety Helmet</i>
	1570400196	<i>Design of a Visual Control Based using Optical Flow for a Ball-Riding Robot</i>
	1570397137	<i>Multiple Quadrotors Flight Formation Control Based on Sliding Mode Control and Trajectory Tracking</i>
	1570398325	<i>The Implementation of Detection and Notification System of Abnormalities of Hemodialyzer</i>
	1570400000	<i>Design of a CAN controller and a monitoring system for wing body in a truck</i>
System and Control - II (SC-II)	1570404794	<i>Comparison of statistical methods of eliminating outliers from water quality data collected by on-line sensors</i>
	1570400145	<i>Traffic Light Detection and Recognition based on Haar-like Features</i>
	1570403240	<i>A Dynamic Visual Servoing of Robot Manipulator with Eye-in-hand Camera</i>
	1570410448	<i>Real-Time Monitoring and Control System of an Industrial Robot with 6 Degrees of Freedom for Grinding and Polishing of Aspherical Mirror</i>
	1570410454	<i>Mathematical Models with Temperature Compensation for InSb and GaAs Hall Sensors Using Linear Regression Method</i>
	1570395217	<i>Simple 3D Splint Reconstruction using a Low Cost Smart Phone Line Laser 3D Scanner</i>

Emerging Technology (E-I)	1570399122	<i>Power Line Noise Removal from ECG Signal Using Notch, Band Stop and Adaptive Filters</i>
	1570397569	<i>Spatio-temporal features for image classification of Perfusion Computed Tomography</i>
	1570397579	<i>Remote Oxygen Saturation Imaging System for Wound Screening</i>
	1570398328	<i>Body Motion Noise Reduction from Wavelet Filter Scaling Level Decision with Savitzky-Golay Smoothing Filter Application</i>
	1570398334	<i>A Study on the Obstacle Collision Situation Classification Technique for the Improvement of Gait Stability of Active Powered Transfemoral Prosthesis Users</i>
Semiconductor and Devices - I (SD-I)	1570394336	<i>A multiple-mode biquadratic circuit employing only plus type DVCCs</i>
	1570410087	<i>A 10Gbps 2-tap pre-emphasis technique for current-mode logic driver in 55nm CMOS</i>
	1570400048	<i>Electrical Properties of Silicon-Doped HfZrO4 Thin Films Deposited by ALD</i>
	1570397761	<i>Analysis of optimum voltage limiter bias in 3T2R nvTCAM cell with small R-ratio</i>
	1570397821	<i>Effects of charge centroid location on program characteristics in charge-trap flash memory</i>
	1570397847	<i>Simulation Study of Transient Current Characteristics with Scaling-down of Body Thickness of Polysilicon Channel Devices</i>
Semiconductor and Devices - II (SD-II)	1570410102	<i>A 25Gbps Source Series-Terminated (SST) transmitter in 55nm CMOS Technology</i>
	1570410114	<i>A 12-bit 200-MS/s Pipelined ADC with Improved Settling Time of Amplifier in 0.13μm CMOS</i>
	1570396890	<i>Capacitor-less Integrate-and-Fire neuron circuit with positive feedback field effect transistor</i>
	1570396911	<i>Fast Monte-Carlo Analysis Method of Ring Oscillators with Neural Networks</i>
	1570396953	<i>A Fast and Flexible Software for IC Reverse Engineering</i>
	1570397144	<i>Pulsed PMOS Sense Amplifier for High Speed Single-Ended SRAM</i>
Special Session 1	1570409199	<i>Feasibility Study of Overlay Data Transmission on the SBAS Signal</i>
	1570404692	<i>Design of Dual Band Antenna for Inside Installation on a Tail Wing of an UAV</i>
	1570404810	<i>A 40 nm CMOS SPDT switch automotive applications</i>
	1570405385	<i>Low frequency noise of silicon based tunneling field effect transistors</i>
	1570403900	<i>RF Front-End Structure for improving communication performance of deep space probe</i>
	1570405460	<i>Fabrication and Characteristic Analysis of Gas Sensor Using Nano-Structure</i>
Special Session 2	1570401337	<i>Dual Region based Color Channel Registration for Multiple Color Filtered Aperture Image</i>
	1570401345	<i>Robust Parking Occupancy Monitoring System Using Random Forests</i>
	1570403120	<i>Alignment of the Pre-processed 3D Point Cloud with a Corresponding Camera View and CAD Model through Partial Point Cloud Scanning</i>
	1570398024	<i>A Study on Production of Interactive Projection Mapping Performance accounted for Automobile</i>
	1570400890	<i>An experimental study on relationship between foveal range and FoV of a human eye using eye tracking devices</i>
	1570403326	<i>Digital Art Game with Audience's Physical and Emotional Participation</i>
Special Session 3	1570399516	<i>Atmospheric Light Estimation Using Fog Line Vector for Efficient Defogging without Color Distortion</i>
	1570405708	<i>The Design of Intelligent System for Detecting Illegal Waste Dumping with PTZ Controlled CCTVs</i>
	1570400004	<i>Robust relationship learning to illumination in a camera network</i>
	1570401347	<i>Violence Detection for Video Surveillance System Using Irregular Motion Information</i>
	1570403211	<i>Principal Depth Estimation Using Cost-Volume Filtering for Fast Stereo Matching</i>
	1570404001	<i>An Intelligent Collaboration Framework between Edge Camera and Video Analysis System</i>

	1570404004	<i>Depth Image-based Object Segmentation Scheme for Improving Human Action Recognition</i>
	1570400086	<i>Color Preserving Brightness Enhancement Using Variational Retinex Model</i>
<b>P-I</b>	1570393133	<i>Conical-Beam Microstrip Antenna Using Quasi-Circularly Arrayed Six Unit-Cells with Slotted Ground Structure</i>
	1570395375	<i>Approximated Error Performance Analysis for Multi-Hop Adaptive DF Relay Networks with Burst Transmission</i>
	1570404710	<i>Video Annotation using Face Recognition based on CNN</i>
	1570397440	<i>Characterization of Fading Statistics on Sea Surface Roughness at a Fixed Source-to-Receiver Range</i>
	1570397857	<i>Compare of Channel coding for 5G System: LDPC and Polar code</i>
	1570395225	<i>Recognition method of license plate for black box video using Apache Kafka</i>
	1570396357	<i>Microserver architecture with high-speed interconnected network</i>
	1570396510	<i>Ubiquitous Smart Home Energy Management based on RESTful Web of Things</i>
	1570397026	<i>Design of Just-In-Time Service Composition Bus Supporting Module-based Smart Device</i>
	1570397415	<i>Cryptanalysis and improvement of an efficient two-party authentication key exchange protocol for mobile environment</i>
	1570397418	<i>Quantum resistant NTRU-based key distribution scheme for SIP</i>
	1570403981	<i>Analysis of read margin of crossbar array according to selector and resistor variation</i>
	1570397764	<i>Study on Improvement of Efficiency of District Heating System applying IoT</i>
	1570397841	<i>Development of SISO-based Scenarios for Modeling and Simulation of Electronic Warfare</i>
	1570397849	<i>Evaluation of STT-MRAM L3 Cache in 7nm FinFET Process</i>
	1570395978	<i>A Channel Multiplexing Circuit on SiPM Sensor Arrays by Using the Bootstrap Technique</i>
	1570396337	<i>Electromagnetic wave-based Wireless Energy Transmission for Low Power Wireless Sensor Nodes</i>
	1570396964	<i>Real Time Simulation of Multi-Microgrid based on Renewable Energy</i>
	1570398167	<i>Study on Practical Methods of ADAS for Elderly Drivers</i>
	1570381611	<i>Single-Stage Subharmonic Quadrature RF front-end</i>
	1570388292	<i>Design Optimization InGaAs/GaAsSb-based Heterojunction Gate-All-Around (GAA) Arch-Shaped Tunneling Field-Effect Transistor (A-TFET)</i>
	1570396618	<i>Development of Radiation Hardening OP-Amplifier with proposed layout technique and size optimization</i>
	1570397217	<i>A Fast-Transient Digital LDO Using A Double Edge-Triggered Compator With A Completion Signal</i>
	1570397218	<i>A-250mV supply-voltage 65dB-gain OTA with an enhanced bandwidth and a reduced compensation-capacitor</i>
	1570397473	<i>Activation Energy Window-Based Modeling on the NBIS-induced Instability in Amorphous InGaZnO Thin-Film Transistors</i>
	1570397494	<i>A 12-bit 3 MS/s Asynchronous Comparator-Based Cyclic ADC with an Adjustable Threshold Voltage Comparator</i>
	1570397552	<i>A 0.8 - 1.4 GHz ADPLL Design using mismatch TDC without delay cell line in 180nm CMOS</i>
	1570397574	<i>External Capacitor-less LDO Regulator with Fast Transient Response in 180-nm CMOS</i>
	1570403449	<i>Deep convolutional framelets</i>
	1570397744	<i>Improved SiO<sub>2</sub>/SiC Interface Properties of 4H-SiC MOS Capacitor by using Boron Passivation</i>
1570397763	<i>A Power-Efficient Search Line Driver for 3T-2R Non-Volatile Ternary Content Addressable Memory with Power Gating and Replica Cell</i>	
1570397766	<i>Program Characteristics for Planar EEPROM Cells</i>	
1570397768	<i>Resistive Switching Behavior in Al<sub>2</sub>O<sub>3</sub>-based Resistive Memory Devices with p-AlGaIn Bottom Electrodes</i>	

1570382103	1570382103	<i>Optimal Color Correction Method for Color Vision Deficiency</i>
	1570396224	<i>Restoration of Quality Degraded Image by Atmospheric Scattering Model</i>
	1570397481	<i>Discriminant Measure Based on Discrete Wavelet Transform and its Application to Illumination Mechanism for Steel Plates</i>
	1570397882	<i>Circle Detection Method for Table Tennis Ball Using Color Information</i>
	1570397895	<i>SelfID: How to Make Personal ID Photo using Selfie</i>
	1570397902	<i>Motion Vector Shifting Algorithm for Motion-Compensated Frame Rate Up-Conversion</i>
	1570398015	<i>Contrast stretching for brain magnetic resonance imaging</i>
	1570398072	<i>JPEG artifacts reduction using convolutional neural network</i>
	1570398243	<i>Color-to-Grayscale Algorithms effect on Edge Detection - A Comparative Study</i>
	1570394458	<i>Improved Velocity Measurement using Time Difference of the Magnetic Field</i>
	1570395222	<i>Full-bridge Converter of Wide Range Zero-Voltage Switching</i>
	1570396507	<i>GNSS and Vision Integration High Precision positioning Based on Geometric Arrangement of Landmarks</i>
	1570416528	<i>A Color Adjustment Convolutional Neural Network for Image SuperResolution</i>
	1570397500	<i>An Adaptive RF-Antenna Mapping Strategy for Millimeter-Wave Massive MIMO Networks with Hybrid RF/Baseband Precoding/Combining Design</i>
	1570402992	1570402992
1570403010		<i>QoS-Aware Service Migration in Edge Cloud-enabled Vehicular Networks</i>
1570403017		<i>Modulation Adjustment Scheme for Asymmetric Data Transmission in In-Band Full Duplex Wireless Communication</i>
1570403028		<i>An Optimal Routing and Power Allocation Scheme to Maximize the Lifetime of Mobile Wireless Sensor Networks</i>
1570403041		<i>Study on performance improvement technique through interference analysis in actual visible light communication environment</i>
1570403133		<i>Functional Bloom Filter, Better than Hash Tables</i>
1570398245		<i>Comparative Analysis of MCU memory for IoT Application</i>
1570398249		<i>Data Hiding Scheme Based on Pixel-Value Differencing in Dual Images</i>
1570398318		<i>Efficient and Reliable NAND Flash Channel for High-Speed Solid State Drives</i>
1570398359		<i>A More Efficient RFID Authentication Protocol under State-Aware Privacy Model</i>
1570398383		<i>Event Log Analysis Software Design for Naval Combat System using Smart Platform</i>
1570398394		<i>Error Detection Scheme of Smart DDS for Naval Combat System</i>
1570398414		<i>Intelligent travel agent chat-bot system with proactive interaction based on situation awareness</i>
1570398813		<i>Reversible Watermarking Exploiting Differential Histogram Modification with Error Pre-compensation</i>
1570399225		<i>A Method for Fingerprint Enrollment by Finger Rubbing</i>
1570398240		<i>Dual-Head Gantry system to reduce radiation time during radiotherapy</i>
1570398250		<i>FPGA based Sync Block for Analog Mean Delay (AMD) Fluorescence Lifetime Imaging System</i>
1570398298		<i>LoRa based Renewable Energy Monitoring System with Open IoT Platform</i>
1570398299		<i>Development of u-Health Monitoring System using PPG Sensor</i>
1570398335		<i>A Study on Estimation Technique of Gait Steps Based on Knee Joint Angle Change</i>
1570397772		<i>A Comprehensive Study of Ion-Implantation Damage on Source Follower in a Vertically Stacked Nanowire Field-Effect Transistor</i>
1570397814		<i>A study on the property of indirect-type organic X-ray detector fabricated on flexible substrate by process conditions</i>

# P-II

1570397865	<i>Single element differentiation of chemical vapors using an array</i>
1570397874	<i>31% Reduction of Power Consumption Using Active Inductor at TX and AC Termination at RX for A Low-Power Post-LPDDR4 Interfaces</i>
1570396974	<i>Capacitor Selection for Different Voltage Modular Multilevel Converter</i>
1570397950	<i>Energy-Efficient TCAM Search Driver using Self-terminated Match Line for reduced Searching Power</i>
1570398041	<i>A Fully Integrated 802.11ac WLAN CMOS PA Using Multi-Gated Transistors and Adaptive Bias with Two-Winding and Single Winding Combined Transformer</i>
1570398074	<i>Low Search Power and High Reliability 13T-4R MTJ based Nonvolatile Ternary Content-Addressable Memory</i>
1570398133	<i>A Low Phase Noise 0.9 / 1.8 GHz Dual-band LC VCO in 0.18 <math>\mu</math>m CMOS Technology</i>
1570398239	<i>4H-SiC superjunction Schottky diode with p-bottom assist layer to improve breakdown voltage</i>
1570398261	<i>An Erasable Write-Once-Read-Many (WORM) Memory with a Nano-electro Mechanical Switch for Security Applications</i>
1570398262	<i>Microplasma Discharge Characteristics and Novel Device for Future Electric Propulsion System</i>
1570398263	<i>Sensing Voltage Compensation Circuit for Low-Power DRAM Bit-Line Sense Amplifier</i>
1570398256	<i>Underwater Cylinder Recognition Using Machine Learning with DFT-based Feature Vectors</i>
1570398258	<i>Blending for Wide Dynamic Range image using different exposure image</i>
1570398260	<i>Particle Filter based Position Arrangement Method for Point Cloud Data Registration</i>
1570398273	<i>The Vehicle Tracking Method using Improved Image Correction in Harsh Environment</i>
1570398280	<i>Automated Segmentation of Acetabulum Bone on Volumetric Computed Tomography Images</i>
1570398285	<i>Hole-Filling Improvement Method for Kinect Stereo Viewing</i>
1570398292	<i>Vulnerable pedestrian detection and tracking using deep learning</i>
1570398336	<i>IR-UWB Radar-Based Near-Field Head Rotation Movement Sensing Under Fixed Body Motions</i>
1570398348	<i>Euclidean Distance Based Algorithm for UAV Acoustic Detection</i>
1570398831	<i>Fingerprint representation combining Minutiae-based and Texture-based structures</i>
1570396509	<i>Fusion of GNSS and On-board Vehicle Sensors for Land Vehicle Positioning System</i>
1570396973	<i>A Study on 6-phase Interleaved PWM Inverter for Reducing DC Link RMS Current and Securing Redundancy</i>
1570399461	<i>Guaranteeing QoS and Maximizing Capacity in Wireless Networks</i>
1570403896	<i>A Simple Novel Method to Reduce Common Mode Voltage in Space Vector Pulse Width Modulation Driving Three-Phase Inverter</i>
1570403322	<i>Simultaneous Wireless Information and Power Transfer with Pulse Energy Modulation based on Tomlinson-Harashima Precoding</i>
1570403421	<i>A Method of BLE Mesh Network Communication</i>
1570403598	<i>Magnetic Field Measurement with Orthogonal Antenna Structure for Energy Beamforming in Non-Radiative Wireless Power Transfer</i>
1570403947	<i>Virtualized Network Function Embedding at Mobile Edge Computing</i>
1570403948	<i>Enhanced CoMP assisted Handover Scheme with Supplementary Channel State Information Feedback</i>
1570404240	<i>Performance of MIMO-OFDMA systems with adaptive beamforming based on MMSE</i>
1570399434	<i>Short-term Wind Power Prediction based on SVR with Error Correction</i>
1570399745	<i>Design of Unidirectional Security Gateway System for Secure Monitoring of Control Network based on Modbus/TCP</i>
1570399867	<i>HMM with Continuous Emission Mixture Model Based Human Action Video Understanding</i>
1570399870	<i>Library Optimization for Embedded Systems Using Open Tools</i>
1570399873	<i>Study on Communication Method between Modules in Modular Toy</i>

## P-III

1570400037	<i>Sentiment Analysis and Visualization of Chinese Tourism Blogs and Reviews</i>
1570400089	<i>A Number Recognition System with Memory Optimized Convolutional Neural Network for Smart Metering Devices</i>
1570400119	<i>Multi-sensor based parking information system</i>
1570398417	<i>Load Disaggregation Method for Home Energy Management Systems</i>
1570399036	<i>Minimizing False Alarm in Blood Pressure Monitoring Based on Deep Belief Network Model: Preliminary study</i>
1570399503	<i>Cloud-based Application Platform for Smart Monitoring &amp; Management of Photovoltaic Generation Systems</i>
1570399506	<i>Development of Multiple Drones Flight System for Outdoor Aerial Choreography</i>
1570398267	<i>A Study of Hot-Carrier Injection Influenced by Doping Concentration in a Junctionless-mode Gate-All-Around Field Effect Transistor with 5-story Vertically Integrated Nanowires</i>
1570398287	<i>Optimizing a FPGA-based Neural Accelerator for Small IoT Devices</i>
1570398293	<i>Simulation Study on Influence of Interface Trap Position in Si1-xGex Gate-All-Around (GAA) Field-Effect Transistor</i>
1570398312	<i>Analysis on Mechanism of Plasma Discharge Characteristics by Using Novel APPJ Device for Surface Treatment</i>
1570398337	<i>A 36.2 pJ/Step Energy-Efficient 16-bit Differential SAR Capacitance-to-Digital Converter</i>
1570398347	<i>Analysis of STDP Characteristics of 3D Floating-Gate Synapse Device for Neuromorphic Applications</i>
1570398363	<i>Si/BN/MoS2 photodetector with ultra-high on/off ratio by controlling carrier tunneling</i>
1570398380	<i>A Design of High Efficiency, Wide Range Dual-Mode Class-D Power Amplifier with Digital Power Control</i>
1570398413	<i>A Design of Low Power 5-Channel Receiver with Input-Referred Noise of -150.5 dBV/Hz</i>
1570398634	<i>Exploiting Rowhammer Error Distribution for Reducing DRAM Errors</i>
1570399125	<i>Cost-effective Technique for Measuring Clock Frequency on FPGAs</i>
1570399493	<i>A Study on High Robustness ESD Protection Circuit with Improved Electrical Characteristics</i>
1570399508	<i>An Efficient Implementation of SHA processor Including Three Hash Algorithms (SHA-512, SHA-512/224, SHA-512/256)</i>
1570399643	<i>Slew-aware Fast Clock Tree Synthesis with Buffer Sizing</i>
1570399229	<i>Depth estimation enhancement algorithm using Pix2pix</i>
1570399236	<i>Fire detection algorithm applying behavior recognition algorithm</i>
1570399491	<i>Vessel Pattern Enhancement based on Weber's Law for Sclera Recognition</i>
1570404631	<i>Agent-Based Multi-Transit Station Layout Modeling Patterns Considering the Agent Generation</i>
1570400053	<i>Compressed Video Noise Sensitivity Analysis for Blocking Artifact Reduction</i>
1570400054	<i>Adaptive In-Loop Filtering for Ringing Artifact Reduction using Noise Level Prediction in HEVC</i>
1570400067	<i>CRLB based Performance Analysis of Target Localization in a PCL system</i>
1570400072	<i>Detection and Measurement of Leukocyte Motions in a Microvessel</i>
1570400085	<i>Bright Region Preserving Back-Light Image Enhancement Using Clipped Histogram Equalization</i>
1570397996	<i>A study on IoT platform for private electrical facilities management</i>
1570398284	<i>Velocity Estimation Method using Ultrasonic Sensors</i>
1570398295	<i>Lane Recognition Algorithm using Lane Shape and Color Features for Vehicle Black Box</i>
1570410126	<i>Application of Dynamic T-L Plane for Reducing Task Migrations and Preemptions in Multiprocessors Real-Time Scheduling</i>
1570401377	<i>Region Adaptive Back-Projection for Noisy Image Super Resolution</i>
1570403776	<i>Design and Performance Evaluation of Enhanced Congestion Control Algorithm for Wireless TCP by using a Deep Learning</i>

# P-IV

1570403922	<i>Performance Enhancement of MPTCP having a Bufferbloat Path Using Retransmission of HoL Blocking Packets</i>
1570409192	<i>Syndrome-aided Pruning Architecture for Successive-Cancellation Decoding of Polar Codes</i>
1570397979	<i>Passenger's location estimation using Kalman Filter for Beacon fare collection in a Wireless Low Floor Tram</i>
1570398311	<i>A Novel Multi-Target Detection Algorithm for Automotive FMCW Radar</i>
1570398314	<i>Performance of Time Diversity Technique on the Underwater Acoustic Communication for the Shallow Water Condition</i>
1570398320	<i>Analysis of Atmospheric Turbulence Channel for GEO Satellite Laser Communication</i>
1570398351	<i>Reconfigurable Base-station Platform Based on ETSI-Standard Radio Virtual Machine for Supporting Various 5G Network Services</i>
1570398375	<i>Applying CoAP for real-time device control over public networks</i>
1570400760	<i>Cycle-Accurate Full System Simulation for CPU+GPU+HBM Computing Platform</i>
1570400887	<i>There is Only You: Actively Diminishing People in a Scene</i>
1570402191	<i>Bridging the Gaps between Probabilistic Learning, Task Planning, and Reactive Control for Autonomous Robots</i>
1570402211	<i>Near-Infrared Camera-Based Marker Recognition Under Low Illuminate</i>
1570402607	<i>Comparison BER with the different stack-up PCB of KOSMOS micro-server system interconnection module supporting 800Gbps bandwidth</i>
1570402642	<i>Lifelog-based Classification of Mild Cognitive Impairment using Artificial Neural Networks</i>
1570402728	<i>Implementation of Dynamic Node Management in Hadoop Cluster</i>
1570402866	<i>Prediction of Nuclear Reactor Vessel Water Level Using Deep Neural Networks</i>
1570402889	<i>Practical Implementation of Convolutional Neural Network with BLAS</i>
1570402966	<i>Design of Multipurpose Water Quality Measurement and Autonomous Water Sampler</i>
1570403032	<i>A Study on the Cognitive Workload Characteristics according to the Driving Behavior in the Urban Road</i>
1570403146	<i>Power Gain Analysis by Serial Voltage Compensation during Partially Shaded condition in PV Generation System</i>
1570403207	<i>LabVIEW based Modeling of SWIPT System using BPSK Modulation</i>
1570403238	<i>Photogrammetry for Specifying 3D Position of Multi-channel NIRS Optodes in MNI template using a Tablet Camera</i>
1570399714	<i>A 8.9 mW, 0.6-2 GHz Fast Locking Delay-Locked Loop using Dual Delay Lines with Phase Blender</i>
1570399804	<i>Fast Buffered Clock Tree Synthesis in Multi-corner Multi-mode scenario</i>
1570399828	<i>A Design of Fast Settling Transimpedance Amplifier With Ambient Light Rejection</i>
1570399850	<i>A Novel Active Bias Circuit of Low Noise Amplifier MMIC for LTE Applications</i>
1570399890	<i>MaxEye-based Equalizer Adaptation</i>
1570399909	<i>An AES-GCM Authenticated Encryption Crypto-Core for IoT Security</i>
1570400016	<i>A Power-Efficient Voltage-mode Transmitter with Stacked NRZ and PAM4 Drivers</i>
1570400154	<i>Optimization of pulse shape for suppressing current overshoot in ReRAM</i>
1570400159	<i>Stepwise Controlled Voltage Sensing Scheme for High-Density ReRAM with Multi Level Cell</i>
1570400224	<i>A facile method of air-fabricated organic/perovskite monolithic tandem solar cells</i>
1570400755	<i>AMOLED Stretching Compensation Circuit for Stretchable Display</i>
1570400966	<i>A Programmable Clock Frequency Multiplier for Low-Power SoC</i>
1570404287	<i>Active SONAR Resolution Enhancement Using Overlapped Beam Cancellation</i>
1570400088	<i>Linear Prediction-based Dereverberation with Very Deep Convolutional Neural Networks for Reverberant Speech Recognition</i>



	1570403015	<i>Infrared Image Synthesis of Background and Target Using Temperature Estimation</i>
	1570400220	<i>Unifying Block-based and Structured Frame-based Compressive Sensing</i>
	1570400479	<i>Design of a Hopping-Frequency Coding based Transmission Method for Underwater Detection</i>
	1570402651	<i>Super-resolution Reconstruction for Plenoptic Images</i>
	1570402795	<i>Fast CU Decision Based on Temporal Prediction Structure for HEVC</i>
	1570402808	<i>Disparity Map-Based Pedestrian Detection with Reduced Features</i>
	1570402827	<i>A median filter based computer aided diagnosis system for detection of Alzheimer's disease using 2D-discrete wavelet transform and machine learning technique</i>
	1570402833	<i>Feature Saliency based SLAM of Mobile Robot</i>
	1570402985	<i>Robust Occlusion Recognition Based on Ring Projection and Radial Projection Matching</i>
	1570398333	<i>A Study on the Control Technique of a Lower Extremity Exoskeleton Robot based on State Machine for the Improvement of Walking Convenience of Weak Pedestrians</i>
	1570398840	<i>Development of Performance Evaluation System with Unified Fuel Filter</i>
	1570399857	<i>Display-adaptive Tone Mapping Operator Based On a Retina Response Model</i>
		1570398378
1570399854		<i>Effect of Electromagnetic Interference Shield on BGA Package</i>
1570400163		<i>Terahertz Tunable Meta-lens</i>
1570404636		<i>A 5-6GHz Wideband CMOS LNA for Wireless Audio/Video Transmission</i>
1570404736		<i>A Low Voltage Low Power 5.54GHz Quadrature Down Conversion Mixer for Wireless Receiver</i>
1570403038		<i>Development of A Web Editor for Making and Editing Base Object Model (BOM) Documents</i>
1570403126		<i>Fast and robust 3D textured model reconstruction on mobile platforms</i>
1570403134		<i>Estimation of Atrial Fibrillation Using Arbitrary Normal ECG Segments Based on Convolutional Neural Networks</i>
1570403208		<i>Implementation of EMG Data-based Rehabilitation Assistance System</i>
1570403210		<i>Implementation of Non-restraint Multifunction Cushion type Health Monitoring System</i>
1570403227		<i>Open Source Board Based Edge &amp; Cloud Data Platform Architecture For IoT Data Management</i>
1570403230		<i>Weak Constraint Leaf Image Recognition based on Convolutional Neural Network</i>
1570403266		<i>Precise Time Synchronization method using GNSS module</i>
1570403359		<i>Accelerating Convolutional Neural Network Based Parallel Computing on GPU</i>
1570403887		<i>Design of Progress Monitoring System for the Construction Site</i>
1570404011		<i>Performance Comparison of MQTT and CoAP for Building Safety IoT System</i>
1570403247		<i>Design of Cantilever Type Piezoelectric Energy Harvester with wideband frequency operation for wireless sensor network</i>
1570403249		<i>Development of a compact Wireless Four-Wavelength functional Near Infrared Spectroscopy patch system with a multi-distance detection scheme</i>
1570403255		<i>Power Generation Prediction Model of New Photovoltaic Systems using Generalized Training Data</i>
1570403264		<i>A Highly Sensitive and Portable Fluorescence Detector for Small Volumes of Biosamples</i>
1570402065		<i>Improved conversion efficiency of coverglass-encapsulated III-V triple-junction solar cells using antireflective nanopatterned polymer layers</i>
1570402240		<i>Thin film logic inverter with amorphous oxide thin film transistors</i>
1570402462		<i>Analysis of NLSB Effect depending on Cell Pattern and Bias Conditions in 3D NAND Flash Memory</i>
1570402840		<i>An Efficient Low Power High Level Synthesis Scheduling Algorithm on IoT Platform</i>

# P-V

1570402996	<i>HBM Test Platform for AI Hardware System</i>
1570402997	<i>CAN-based Secured Test Access Mechanism for Automotive SoCs</i>
1570404664	<i>Interactive Engineering Education Environment for K-12 using Natural User Interface</i>
1570403021	<i>A study on electrical and thermal stabilities of zinc oxynitride thin-film transistors with varying channel thickness</i>
1570403118	<i>A Variation-tolerant Semi-custom Design Methodology for Near-threshold Voltage Systems</i>
1570403147	<i>A 14-Gb/s clad dielectric waveguide link using 73GHz carrier frequency with a stochastic RF phase synchronization system in 40nm CMOS</i>
1570403212	<i>LCD Drive Circuit Using Oxide TFT for Wearable Applications</i>
1570404768	<i>Epileptic Seizure Detection for Multi-channel EEG with Deep Convolutional Neural Network</i>
1570403259	<i>A 3.2Gbps 3x-Oversampling and DLL based transceiver in Memory interface for DDR4 LRDIMM</i>
1570403405	<i>A PVT-Compensated Sinusoidal Wave Generator with Phase Modulation for Multi-Channel Sensor Applications</i>
1570402988	<i>Early Skip Mode Decision Algorithm based on All-Zero Block Detection Scheme for HEVC Encoder</i>
1570402994	<i>Automatic Recognition System for Weld Bead Detection</i>
1570403098	<i>Forecasting of heart rate variability using wrist-worn heart rate monitor based on Hidden Markov Model</i>
1570403153	<i>Non-dispersive Acoustic Luneburg Lens made up of Acoustic Metamaterial</i>
1570403220	<i>Probabilistic reasoning for voice activity detection</i>
1570403225	<i>Sequential deep learning for speech bandwidth extension</i>
1570403229	<i>PCA-Based Atmospheric Light Vector Estimation for Fast Dehazing</i>
1570403248	<i>Pseudo-Inverse Matrix in a Bayesian framework</i>
1570403323	<i>Implementaion of Home Healthcare System for a Patient using SAW Tag</i>
1570399170	<i>Connectivity-preserving formation control of networked uncertain underactuated surface vessels with collision avoidance</i>
1570399421	<i>Neural Network-based Automatic PID Gain Update Algorithm</i>
1570400528	<i>Estimation of Friction Coefficient for Exploring Robot around Rough-Terrain under Small-Slip or Less-Traction Condition</i>
1570404056	<i>Object Detection with Multi-Scale Context Aggregation</i>
1570403969	<i>Effect of micro-Electric Stimulation on human Annulus Fibrosus cells using Lego like Type of Micro current Stimulation Chip (L-type MSChip)</i>
1570400031	<i>Single Shot Object Detection Using Spatial Pooling Pyramid</i>
1570404772	<i>Enhanced Industrial Message Protocol for Real-time IoT Platform</i>
1570403007	<i>An FPGA Implementation of a Time-to-Digital Converter with a Ring Oscillator and Buffers</i>
1570405921	<i>Performance Analysis of LoRa Communication System Under LoS and NLoS Environment Through Simulation and Field Experiment</i>
1570407534	<i>Optimal Leader Selection for Minimizing Control Traffic in Distributed SDN Controllers</i>
1570414292	<i>Enhanced Energy Harvesting Scheme in Cognitive Wireless Powered Communication Network</i>
1570397891	<i>A 5.9 GHz DSRC Transmitter IC for Vehicle Wireless Communication System</i>
1570404044	<i>Improved DINA model for personal diagnosis</i>
1570404320	<i>Deep Convolution and Up-Convolution Network for Plant Segmentation</i>
1570397875	<i>An Improved Vector Modulator Using Q-Factor Calibration for 5 - 6GHz Beamforming Receiver</i>
1570404641	<i>Development of an Easy Payment System based on IoT Gateway</i>
1570404649	<i>Tiered ECC-Caching Architecture Based on Priority Queue Management</i>

# P-VI

1570403253	<i>Metal-Oxide Formation at Interface between Metal and Oxide Material</i>
1570404707	<i>Modeling User Experience of Mobile Applications using Labelled Transition System</i>
1570397636	<i>A 1Gbps Referenceless Clock and Data Recovery Using Injection PLL</i>
1570404748	<i>Image Inpainting with Candidate Pruning in a Hierarchical Exemplar Space</i>
1570404760	<i>Deep Neural Network Using Tensorflow</i>
1570400042	<i>3D Printing Security for Anti-weapon Detection using Deep Learning</i>
1570403324	<i>Study on the Change of HIFU Focal Point According to the Ultrasonic Coupling Medium in Superficial Varicose Vein Treatment</i>
1570401168	<i>Design of actively tunable one-dimensional electromagnetic bandgap structures employing BST thin film</i>
1570404455	<i>Electrical brain stimulation and its simultaneous imaging with transparent graphene neural electrodes</i>
1570406829	<i>Designing 3D-Printed Optimal Steering Control System of Electric-powered Wheelchair for Cerebral Palsy</i>
1570406924	<i>Development and 3D Motion Analysis of the Dual Chamber-based Drinking Aid for Stroke Patients: A Prospective Pilot Study</i>
1570403581	<i>Design and verification of Secure IoT Hub based on Virtual SoC Platform</i>
1570403653	<i>Dual AMP Feedback Structured Low-Dropout Voltage Regulator</i>
1570403747	<i>A Design of 4-Switch Buck-Boost Converter with Three Transition Modes to Reduce Output Ripple</i>
1570401057	<i>Fingerprint Template Management for Higher Accuracy in User Authentication</i>
1570403991	<i>An Injection-Locked ADCDR with Reference-less Frequency Tracking</i>
1570404012	<i>Power Estimation of Cryptographic Modules using Virtual SoC Platform</i>
1570404282	<i>A mm-Wave frequency band die-to-board transition design using fan-out wafer-level packaging</i>
1570404334	<i>An Analog Front-End for Self-Capacitance Touch Sensing with Environmental Noise Reduction Technique</i>
1570404483	<i>A 16-Gb/s Injection-Locked CDR in Embedded Clock Receiver</i>
1570404558	<i>A Design of High Efficiency A4WP mode Rectifier to prevent Reverse Leakage Current using Delay Compensation Circuit</i>
1570404651	<i>Plasmonic nanoaperture arrays for localization-based biomolecular detection and polarimetric extinction</i>
1570404677	<i>Parallel-Combined Transistors and Active Bias Circuits for Highly Linear InGaP/GaAs HBT PAs</i>
1570404699	<i>Two level ECC code to enhance reliability</i>
1570404771	<i>263nW Capacitorless Low-Dropout Regulator Reduces Area with MOSFETs Instead of Resistors for IoT Applications</i>
1570404400	<i>Crypto Trust Point (cTp) for Secure Data Sharing among Intelligent Vehicles</i>
1570403963	<i>Exclusive Prediction Skipping Method for Low-complexity HEVC Encoder</i>
1570404017	<i>The Weld Bead Detection using the Soot Remove algorithm for 2D Vision Inspection System</i>
1570397572	<i>Forecasting Treasury Futures Price Movement with Recurrent Neural Networks</i>
1570404067	<i>Evaluating the Effect of Various Speckle Reduction Filters on Ultrasound Liver Cancer Images</i>
1570404253	<i>Outdoor Experiment for Target Detection and Performance Analysis using L-band SAR System</i>
1570404277	<i>Development of Equipment Fault Signal Diagnosis System Using Pattern Recognition Classification</i>
1570404285	<i>Video Text Binarization using Connected Component Level Non-text Filtering</i>
1570400107	<i>i-Vector-based Speaker Clustering and Model Adaptation for Large Scale Speech Recognition</i>
1570404318	<i>Traditional Hanja Handwriting Recognition Using VGGNet</i>
1570402824	<i>A Robust SLAM Algorithm using Hybrid Map Approach</i>

# P-VII

1570403221	<i>The Development of Adjustable 3D Printer module</i>
1570403222	<i>Risk Identification System Combined Speedometer for Bicycle Headlights</i>
1570403176	<i>Traffic Sampling and Forwarding for Multiple Intrusion Detection Systems on Software-Defined Networks</i>
1570403187	<i>A Design of Positioning Module for GPS/GLONASS/BDS Software Receiver</i>
1570403261	<i>Maritime Safety System using Bluetooth Low Energy and Global Positioning System</i>
1570403268	<i>Implementation and Evaluation of Handover Mechanism in DSRC WAVE system</i>
1570404629	<i>Ku-Band Frequency Tripler with 65 nm CMOS Technology</i>
1570404971	<i>A Context Synchronization Method for Efficient Offloading on IoT Virtual Machine</i>
1570404973	<i>A Study on Partial Image Classification of Vehicle Using DBN</i>
1570404976	<i>A Composite Data Type Inference Method based on Deep Learning on Binary Code</i>
1570404984	<i>Iterative Model Matching for 3D Localization of a Mobile Robot</i>
1570405022	<i>Development of a cognitive rehabilitation content using smart blocks</i>
1570405193	<i>Quantum Superposition Database for Classical Information</i>
1570405242	<i>Ocean Trash Simulation for Sustainable Development Goal based on the Discrete Event Simulation</i>
1570405594	<i>An IoT application Service using Mobile RFID Technology</i>
1570406912	<i>Effects of robot-mediated gait training combined with virtual reality system</i>
1570408051	<i>Design of Smart Monitoring System based on Bluetooth Low Energy</i>
1570409854	<i>An Optimal ILP Hardware Architecture Datapath Synthesis Algorithm</i>
1570408076	<i>Image Processing based Cognitive Rehabilitation System (IPCRS)</i>
1570409277	<i>Heart rate variability at relax, stress, and recovery phases for differential diagnosis and treatment response between patients with major depressive disorder versus panic disorder: a 12-week follow-up study</i>
1570409888	<i>Development of u-Health Monitoring System using PPG Sensor</i>
1570415918	<i>Cloud-based Application Platform for Smart Monitoring &amp; Management of Photovoltaic Generation Systems</i>
1570404797	<i>A SIMO DC-DC Boost Converter with High Efficiency and Small Area</i>
1570404811	<i>Solution based indium zinc oxide thin film transistor with diffused aluminum oxide insulator layer</i>
1570404813	<i>A wideband low noise and highly linear CMOS RF front-end with harmonic rejection mixer</i>
1570404860	<i>Analysis of back-bias effect of multi-channel nanowire Tunnel Field-Effect Transistors (TFETs)</i>
1570405810	<i>A Low Spurious CMOS Image Sensor with an Improved Single-Slope Analog-to-Digital Converter and a Mixed-mode Correlated Double Sampling</i>
1570406809	<i>Improved Performance of High Power Single Emitter Semiconductor Diode Laser by New Submount</i>
1570408741	<i>Coupling Efficiency and Bandwidth Enhancement of Silicon-based Grating Couplers Using Integrated Distributed Bragg Reflectors</i>
1570412608	<i>Development of Electrooculography Measurement System using Minimized Electrode</i>
1570415799	<i>Pulsed PMOS Sense Amplifier for High Speed Single-Ended SRAM</i>
1570415930	<i>Design and verification of Secure IoT Hub based on Virtual SoC Platform</i>
1570404369	<i>Wideband Interference Detection By Using Discrete Wavelet Transform in a Direct RF Sampling Receiver</i>
1570404373	<i>Performance comparison: numerical solutions for the Helmholtz equation</i>
1570404610	<i>A 9-bit 10MS/s 18<math>\mu</math>W SAR ADC for a Mixed-Signal Vector Matrix Multiplier Design</i>



1570404660	<i>LiDAR Data Interpolation Algorithm for Visual Odometry Based on 3D-2D Motion Estimation</i>
1570404675	<i>Review on Non-iterative Recovery Frameworks in Compressed Sensing</i>
1570404756	<i>Visible and Near-Infrared Separation using Conditional Generative Adversarial Network</i>
1570405094	<i>Performance Improvement for Generating Digital Holograms by using Visual Profiler of GPGPU</i>
1570408798	<i>Noise-Robust Back-Projection for Noisy Image Super Resolution</i>
1570408893	<i>Apparatus of simultaneously stimulating and recording neuronal activities of the brain of an animal model</i>
1570415770	<i>Human Action Video Understanding Using HMM with Continuous Emission Gaussian Mixture Model</i>
1570404339	<i>High Precision Hand-Eye Self-Calibration for Industrial Robots</i>
1570404753	<i>Lane Detection using LIDAR Intensity MAP</i>
1570413205	<i>Full-State Feedback Control of Dynamic System based on Adaptive Unscented Kalman Filter</i>
1570399005	<i>Depth Upsampling Methods for High Resolution Depth Map</i>
1570395213	<i>Review on Emotion Recognition in the Wild</i>
1570398398	<i>Cascaded Fingertip Detection and Classification for Human-Projector Interaction on Tabletop Surfaces</i>



# Poster\_ Short talk

1570397157	<i>Compact Dual-Band Planar Antenna for GPS and Mobile Handset Applications</i>
1570404400	<i>Crypto Trust Point (cTp) for Secure Data Sharing among Intelligent Vehicles</i>
1570397572	<i>Forecasting Treasury Futures Price Movement with Recurrent Neural Networks</i>
1570401057	<i>Fingerprint Template Management for Higher Accuracy in User Authentication</i>
1570397636	<i>A 1Gbps Referenceless Clock and Data Recovery Using Injection PLL</i>
1570397875	<i>An Improved Vector Modulator Using Q-Factor Calibration for 5 - 6GHz Beamforming Receiver</i>
1570397891	<i>A 5.9 GHz DSRC Transmitter IC for Vehicle Wireless Communication System</i>
1570401168	<i>Design of actively tunable one-dimensional electromagnetic bandgap structures employing BST thin film</i>
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