

ITC-CSCC 2015 Accepted Paper List

Tuesday, June 30, 2015				
Time	Presentation	Session	Paper number	Paper title
14:00~15:40	Oral	Communication : Wireless Communication 1	1570143831	Decision Making for Vertical Handoff in heterogeneous wireless system
			1570120235	Estimation of Amplifier Imbalances for Multi-Amplifier Transmission Structures
			1570135783	An Efficient Tree-Based Collision Resolution Algorithm for Radio Frequency Identification System using Ternary Feedback
			1570135815	Gaussian approximation in Bayesian Method of Slotted Aloha Based for RFID System
			1570141239	ALOHA-based MAC Scheme without Acknowledgement for Wireless Passive Sensor Networks: Design and Performance Analysis
		Computer : Education	1570120751	Development of FPGA-based Computer Teaching Materials for Promoting Learning at Home Using Smart Devices
			1570122925	Android Based Student Response System for the Real-time Interactive Classroom
			1570127763	A GUI-based Application for Learning Computer Architecture using Educational Microprocessor
			1570128225	Development of A Programming Environment on LEGO Mindstorms with nxtOSEK
			1570121471	Action Recognition for Virtual Environment Training System
		Computer : Scientific & Medical Imaging	1570121789	Fuzzy Inference System for Liver Ultrasound Image Classification
			1570135369	Study on robust block selection for motion tracking in ultrasound images based on self-cross correlation
			1570121839	An Application of the Power Residue Symbol for Generating Multi-value Sequences over Odd Characteristic Fields
			1570122023	Study on body gesture for automatic switching from cellphone to remote control
		C&S: VLSI 1	1570121837	Modification Bit Detection in Configuration Data for Atom Switch based FPGA
			1570122413	Design and Implementation of Hierarchical 32-Core Architecture for FPGA-based Embedded Systems
			1570122415	Revisiting Function Inlining in FPGA High-Level Synthesis
			1570122545	Efficient Execution of OpenCL-based GPU Programs on Multicore Processors
			1570125813	A Lightweight OpenCL Framework for Embedded Multicore Processors
		C&S: Device	1570121717	Analysis of Gate Induced Drain Leakage in PMOS SiGe FinFETs under Various Dit Conditions
			1570121683	Trap Type Dependence of Modulation in TAT Gate-Induced Drain Leakage
			1570127781	Single-crystal Si based flexible CMOS on a plastic
			1570138893	The Effect of Contact Boundary on Bulk Resistance in Hexagonal Shaped Source/Drain in FinFETs
			1570127587	A Trapezoidal Method for Solving Differential Algebraic Equations
	Poster	Circuit & Systems 1	1570134515	Sliding-Mode Control for Single Phase AC-AC Converter with Power Factor Control
			1570115499	A New Voltage (Current)-Controlled Current-Feedback Operational-Amplifier Based Multivibrator
			1570132755	New Approach for Simultaneous Approximation of Attenuation and Group Delay Characteristics for Coupled Resonators Filter
			1570121773	Tunable Low-Voltage CMOS Gm-C filter
			1570132711	An estimation method for 2-port S-parameters using 4-port connection circuit with leakage couplings
			1570127921	A Low Noise Low Voltage Instrumentation Amplifier using Field-aided Lateral PNP Transistors
			1570124389	A Case Study of MATLAB/Simulink Modeling of DC Microgrid Systems
			1570119845	The Electrical Modeling extraction of pn junction for VLSI circuits
			1570147349	A 35 dB-Linear Variable Gain Amplifier Circuit of Digital-Beamformer for Ultrasound Medical Imaging
			1570121999	Scalable-Delay-Insensitive Optimization based on Lock Relation
			1570122167	Design and Implementation of 6-Way Ultra Broadband Power Divider having phase difference for each port that can be replaced with phase shifter
			1570122325	A Design of Analog Front-End for Automotive EMR Gear control system based on Inductive Position Sensor
			1570128149	Investigation of near-field response of plasmonic nanostructures with pulsed light operation
			1570127383	A Nanopower Supply-Insensitive CMOS Vth Extractor
			1570125741	Slim - High Efficiency Video Coding Encoder Design
			1570134705	A Vertical Gate-Source Overlapped TFET (Tunneling Field effect Transistor) for Ultra Low Power Application
			1570127793	Atomic-layer transfer process for 2D material based electronics
			1570121671	Denoising and Detection of Power Quality Events Using Wavelet Transform
			1570133635	A Delay Locked Loop with an Embedded Duty Cycle Corrector
			1570121695	Analysis of Hot Carrier Injection according to Doping Concentration in Channel/Substrate and Spacer Length in Bulk-FinFET
			1570128455	Investigation of annealing temperature for solution-processed yttrium oxide passivation layer on a-IGZO thin-film transistors
			1570122051	Compatibility between LTE femtocell and WLAN access point in adjacent frequency band

	Communication : Wireless Communication 1	1570121891	DTN Reliability Enhancement with End-to-End Retransmission in the Presence of a Complete Route
		1570121711	Cross-Layer Framework to Optimize Physical-Layer Network Coding and Multihop Multicast in Cooperative Wireless Networks
		1570125081	An Implementation of Multi-Layer Parallel Packet Processing in the OMNI2 Flow-based Network Processor
		1570122819	Applying Data Plane Acceleration Technology into a Cloud Network Function Virtualization Platform
	Computer: Computer System 1	1570120773	Dynamic Switching of Job Selection Methods in Volunteer Computing
		1570120343	Selective PreSET Approach to Enhance Performance and Durability of PRAM Storage
		1570122901	KRAFT: K-associative Relative Addressing Flash Transition Layer
		1570134531	Improving Pipeline Utilization with Two-Level Instruction Issue on GPUs
	Computer: Video Coding & Compression	1570120731	Original Pixel Based Parallel Algorithm for Intra Prediction of HEVC
		1570120703	Efficient Prediction Motion Vector (PMV) candidate selection algorithm for HEVC
		1570125427	A Fast Level Filtering Algorithm for Inter Prediction in HEVC Encoder
		1570122371	Video Data Compression for Photo-Based Augmented Reality System by Pruning Key Frames
	C&S: System 1	1570128489	Multi-Class Classification of Fatigued Banknotes by using Frequency Spectral Difference
		1570127545	Optimal Robust Control of a Ball-Riding Robot
		1570122081	Simple Yet Effective Two-Stage Speed Traffic Sign Recognition for Robust Vehicle Environments
		1570128479	Design of the PID Posture Controller for 6-DOF Underwater Robot
	C&S: Analog 1	1570118849	An Alternative Platform of Screw Angle Detection in Automation Application
		1570127653	Repair Circuit of TSVs in a 3D Stacked Memory IC
		1570127627	An Efficient Cockcroft-Walton Type Charge Pump with Level Shift Control Circuit
		1570128125	A Constant Relative-Gain DCO with Pseudo-Exponential DAC and FVC Feedback for a Constant Loop-Bandwidth PLL
		1570115501	New Current-Feedback Operational-Amplifier Based Sinusoidal Oscillator with Explicit Current/Voltage Outputs
		1570149111	Electrical Tunneling Biosensor Detecting the MMP9 Using Concentric Electrode Device
	Poster (Computer 1)	1570122965	A simulation study for the behavior analysis of the degree of membership in fuzzy c-means method
		1570132347	Adaptive Feature Extraction Using Sparse Autoencoder Based On Bag-of-Word Model
		1570121847	Development of Illuminance Distribution Simulator for Automatic Brightness Controllable LED Underwater Fishing Lights
		1570118127	Approximations for Multivariate Gaussian Process Classification Model
		1570122011	A Novel Frame rate Conversion Method by Using Improved True Motion Estimation
		1570128137	Tool-Mediated Haptic Surface Recognition
		1570127567	Real-time 3D Human Body Reconstruction with Multiple RGB-D Cameras
		1570121587	Respiration Detection Algorithm during Sleep from Ballistocardiography using Adaptive Double Threshold Method
		1570121889	Ivy Profiler: A Lightweight Performance Analysis Tool for Multicore Systems
		1570119753	Adaptive Music Loudness Modification for Human Auditory Perception
		1570122009	Development of an advanced Red Apple Counting Algorithm Using HOG
		1570146741	Advanced Dehazing Method using Halo Map Based on Dark Channel Prior
		1570133963	Toward Interface Standardization of Mobile Indoor Positioning Systems
		1570121853	Efficient Execution of PageRank Algorithm Exploiting Hardware Accelerator
		1570122393	Edge and Contrast Enhancement Method on Matrix Pattern Image
		1570121407	Adaptive GPS Sampling Method and Design Metrics for Low Power Consumption using Cloud Computing
		1570128127	Vehicle License Plate Recognition using a Rectangle Detection based on OpenCV
		1570135227	Image Reconstruction-Based Solution for Occlusion Problems in Visual Navigation Systems
		1570117985	HEVC-based Real-time Capture and Playback System of 8K UHD AV Contents Using FPGA
		1570147227	Automatic Drawing Simplification via Complex Zernike Moments
		1570120953	Efficient Calculation of Pairing with Supersingular Curve on 2-dimentional Extension Field

Wednesday, July 1, 2015

Time	Presentation	Session	Paper number	Paper title
		Communication: Communication Signal Processing	1570115963	Read-Back Signal Amplitude Improvement Using Rotation Method in Staggered BPMP Channel
			1570119055	A Study of Island Size and Bit Aspect Ratio Factors in Staggered BPMP Channel with SRBP Method
			1570125795	Soft-Output Decoding Approach of a Rate-4/5 CITI Code in Magnetic Recording Systems
			1570127423	A Simple TMR Mitigation Approach for Bit Patterned Media Recording Based on Readback Signals

08:50~10:30	Oral	Communication: Wireless Communication 2	1570130415	Influence of Leakage Signal on Microwave Measurement System
			1570122063	Computational Complexity Reduction of NCSP-OFDM Demodulation for Sidelobe Suppression
			1570143813	Secure Data Transmission using Content Fingerprinting Digital Watermarking Techniques
			1570127783	User Mode Selection for Sum-Rate Maximization in Full-Duplex Two-User Systems
			1570143903	A Secured Data Transmission Using Digital Image Watermarking Scheme
		Computers : Geometric Computing	1570141407	Geometric Surface Reconstruction via LM Optimization algorithm
			1570121143	Geometric method for detection of image quadrilateral
			1570120489	ROS-Based Reliable 3D Map Creation for Mobile Air Vehicles
			1570119501	A Flicker-less Method Detecting the Cue Stick for a System Predicting the Path of the Billiard balls
		Computer: Robotics, Tracking & Navigation	1570138327	Multi-threaded Tracker with Outlier Filtering for Spatial Augmented Reality
			1570127559	Visual Odometry Estimation for an Underwater Robot Navigation
			1570121953	Behavior of the Rescue Robot to Reduce Fire Damage
			1570121955	Effectiveness of autonomous porter robots in a shopping mall
			1570127857	Desynchronization-Based Task Allocation in Multi-Agent Systems
		C&S: VLSI 2	1570127593	Proposal of a small logic block for a reconfigurable device with flexibility on mapping of routing and logic cell
			1570122109	MTJ Based Non-Volatile Flip Flop to Prevent Useless Store Operation
			1570122409	Static Task Mapping for Non-Hierarchical Manycore SoCs
			1570120673	Generalized Isomorphism between Synchronous Circuits and State Machines
		C&S : PMIC	1570138309	Frame Memory Compression with DWT and SPIHT for an H.264/AVC Encoder
			1570121965	Dynamic Response Improvement of Feedforward Combined Multi-loop Control for Boost Converters
			1570122017	Output Noise Reduction Technique based on Frequency Hopping in DC-DC Converter for BLE Applications
			1570120579	1A, 4.2V Synchronous DC-DC Boost Converter with Soft Start for Dynamic Loads
			1570142579	5-Output Single Inductor Buck Converter using Output Voltage-Related Charge Control Scheme
	Poster (Computer 2)		1570122007	Construction of Confusion Line for Color Vision Deficiency
			1570145271	The Removal of Facial Structure Information for Face Replacement
			1570119325	A Systematic Approach to Cross-Execution Object Reuse
			1570126345	Median Filtering Detection of Digital Image using the Pixel's Gradients
			1570115431	A Comparison of SVM, Random Forest and Boosting for Pedestrian Detection
			1570128003	Polynomial Support Vector Machine Using Reduced Multivariate Polynomial
			1570135283	Robust motion detection for overlapped lesions in X-ray images using entropy of difference histogram
			1570133513	A Review of Wearable Devices
			1570121151	Image Searching using a cascade of HOG-kNN
			1570127823	An Empirical Performance Analysis of a Web Game
			1570120605	Electrocardiograph based on s5pv210 processor
			1570127943	Head-Shoulder Detection using Cascade form of SVM
	Oral	Communication: Wireless Communication 3	1570120911	HAENERGY:A Realtime Remote-Monitoring System for Small-Scale Solar Photovoltaic Power Plant
			1570127973	The Development of the System for Tracking the Interesting Person Constantly and for Replaying the Scene
			1570121245	Abnormal Events Recognition Framework based on HMM
			1570120313	Human Action Recognition by Multi-layered SVM
			1570127581	Experimental Production of Indoor Map Applications of the Building at Our Campus Using Multiple iBeacons
		Computer: Computer System 2	1570127433	Ergodic Capacity Analysis of Spectrum Sharing in the Presence of Primary Interference
			1570127655	Energy Harvesting Protocol for Optimal Throughput in WLAN
			1570127739	QoS and Channel-Aware Subchannel Scheduling for D2D Multicast Communication
			1570134539	Improved Performance of Enhanced Receiver Initiated Packet Train (E-RIPT) for Underwater Acoustic Networks
			1570117179	A Study in Identifying Memory Address Interleaving of x86 Servers
		Computer: Image Recognition & Detection	1570135143	Accelerating ELMs on the GPU toward real time training on large scale data sets
			1570124125	Execution Time Modeling for Heterogeneous Computing System
			1570135785	Parallel Computing via Web Browser using HTML5 Web Worker
			1570127537	Effectiveness of Priority Control Method by Using Cgroup in KVM
			1570134929	A Cooking Support System using Gesture Recognition
			1570134857	Comparison of Deep Learning Algorithm Based on Face Recognition

14:00~15:40

14:00~15:40		Computer: Image Recognition & Detection	1570141477	Pedestrian Detection Using HOG, LBP and Color LBP
			1570127855	Manipulated Image Region Detection Using CFA Pattern Distortion
		C&S: System 2	1570122637	Design Consideration of a Secure Sensor Chip for Home Cancer Examination
			1570118381	A Simulated Annealing based Pattern Selection Method to Handle Power Supply Noise for Resistive Open Fault Diagnosis
			1570122679	Effective Diagnostic Image Segmentation with Pyramid Style Support Vector Machine for Colorectal Endoscopic Images
			1570127591	Enhancement of Solution Processed Organic X-ray Detectors
		C&S: Analog 2	1570120685	A Sub 1 V New Bandgap Reference Circuit with PSRR of -120dB
			1570127435	A Dual-CDS CMOS Image Sensor with 10-bit Column-Parallel SS-ADCs
			1570133909	A 10-bit 350uW CMOS Cyclic D/A Converter Based on a Capacitor-Alternating Technique
			1570150733	Design of a Stereo Audio Sigma Delta ADC with 92.4 dB SNR and -88.3 dB THD+N
			1570134485	No Load Ability of Class D Current Source Inverter for Induction Heating Applications
			1570126939	An Implementation of Synchronization Technique for Bistatic Radar Systems
	Poster	Poster (Communications)	1570122005	An Effective Amplification Method of Mobile Phone Sound for The Hearing Impaired
			1570122059	DBN-based Speech and Music Classification Algorithm
			1570128199	Efficient Compression Algorithms for a Hidden Markov Model-Based Statistical Parametric Speech Synthesis System
			1570135239	Simple-API (Application Programming Interface) for an Arduino-based Wireless Sensor Mote
			1570134969	Simulation of Rectangular Microstrip Array Antenna Model for Wireless Access Vehicle Communications
			1570120069	Brownian motion based molecular communication network
			1570127785	Performance Evaluation on Channel Access Mechanism in 5GHz Unlicensed Band
			1570134471	Rain Detection Algorithm for De-raining of Rainy Video Sequences
			1570127455	LED Deployment for improving Received Optical Power Distribution in Visible Light Communication Systems
			1570140729	Motion Activity-based Measurement Allocation for Distributed Compressive Video Sensing
			1570120569	Multiple Passive Sensor-based Active Vehicle Protection with Fixed-lag Smoothing for Maneuvering Targets
			1570127407	Splitting Target Tracking using Joint Integrated Track Splitting and Integrated Track Splitting
			1570127533	Smoothing Data Association for Target Tracking in Clutter
			1570148163	Reduction of Static Reverberation for Active Sonar by Vector Domain Analysis
			1570139205	Improvement of Modal Analysis of Waveguides by the Finite Element Method with Edge-Based Polygonal Element
			1570134681	SoC Implementation of Asynchronous Two-Way Ranging System of Chirp Spread Spectrum
			1570148729	Next-Generation Smart phone Platform Technology Trends
			1570143437	Detection of Flood Areas Using Remote Sensing Data: The Case Study of Thailand
			1570143547	Detection of Drought Areas Using Normalized Difference Vegetable Index
			1570120615	Consistency Analysis of Several Filters for the Contact Lens Problem
			1570127771	A Spectrum Sharing Scheme for Weather Radar Systems
			1570134405	Impact of spectral efficiencies on spectrum requirement estimation
	Oral	Computer: Data Mining/Machine Learning	1570121397	A Study on the Plantar Pressure Measure and Scoliosis Analysis System by Using FSR
			1570122503	Suspicious Domain Filtering Based on Auto-ware Communication Features
			1570128497	Inventory Counting System using Thai Speech Technology
			1570128219	Thai Texts Clustering using Similarity Measures on Social Data
		Computer: Image Enhancement	1570120533	Feature Decomposition Using Mutual Information for SemiBoost Learning
			1570135665	Correction of Chromatic Aberration using Secondary Reference Color
			1570119619	Globally Tunable Histogram Equalization for Image Enhancement
			1570121049	Fast dehazing based on dark channel approximation
			1570134803	An Artifact-Free Image Interpolation Using Edge-Directed Cubic Convolutions
			1570143445	Super-Resolution based on Decomposed Patches using Total Variation Regularization
		C&S: VLSI 3	1570121795	Diagnosis of Delay Faults in the Presence of Clock Delays Considering Hazards
			1570127649	Electrical Test for Open Defects in CMOS ICs by Injected Charge
			1570120319	Automatic Viewing System for a Vast Number of DRC Errors using Agglomerative Hierarchical Clustering
			1570122411	A Flexible Simulation Framework for Network-on-Chip with QEMU and SystemC
		C&S: RF 1	1570122511	Triangular Subcell Method for Efficient Equivalent Circuit Modeling of Power Delivery Network
			1570121301	A 44/60 GHz Dual-Band 0.18- μ m CMOS Phase Shifter
			1570121325	A 44/60-GHz Concurrent Dual-Band 0.18- μ m BiCMOS Power Amplifier

16:00~17:40		C&S: RF 1	1570116679	A Single-Stage, Single-Ended Input Double-Balanced LMV in 65 nm CMOS
			1570122035	A Low-IF highly Flexible Analog Baseband for WPAN in TV White Space Using CMOS 130nm Process
	Poster	Poster (Circuit&Systems 2)	1570120995	Low Power Class AB-B Buffer Amplifier for Reference Voltage Generator in SAR ADCs
			1570126927	Design of TV White Space Spectrum Sensing Receiver for Cognitive Radio
			1570127413	A 3.6V Rail-to-Rail Operational Amplifier with Constant gm
			1570148247	Heat Dissipation under Time Variable Conditions using Thick Graphene Heat Spreader for IC
			1570121735	Comparison of GIDL mechanism between MOSFET and FinFET
			1570122147	Current Driven Mixer with 25% Duty LO generator using Duty Cycle Corrector for Wideband Transceiver
			1570134649	Protection of On-Chip Memory System against Neutron-Induced Soft Errors using Double Adjacent Error Correction Codes
			1570122251	A Design of High Accuracy Current Limit Circuits for Voltage-Mode DC-DC Converter in Wireless Power Transfer Application
			1570122305	A design of Wideband Single to Differential Low Noise Amplifier With Automatic Mismatch Calibration
			1570128211	The Design of PFM Mode DC-DC Converter with DT-CMOS Switch and UVLO
			1570127947	A Design of a Wide Range Low Power Delay-Locked Loop for High Efficiency Synchronous Rectifier
			1570122675	Low Quiescent Current Output-Capacitorless LDO Regulator With PSR Enhancer
			1570122113	A Series Type Third Order Active Notch Filter with Process and Frequency Compensation for Suppressing Harmonic Elements
			1570136801	Development of FBE based LTE Testbed in Unlicensed Band
			1570133453	Extracting of the Cole-Cole Impedance Parameters to Make the Equivalent Phantom Model of The Human Body
			1570122275	Wide input range current sensing circuit using dual auto-zero amplifier without nulling phase
			1570128031	Improved electrical properties in Cu gate TFT with oxide semiconductor by using TaN diffusion barrier
			1570121693	Bootstrapping Technique with PWM/PFM Dual Mode for Wide load Range High Efficiency Buck Converter
			1570142607	An energy-efficient charge average switching DAC for SAR ADCs with a floating capacitor scheme
			1570117989	Implementation of a Hardware-Based Flexible UHD Video Server Platform with Difference Resolution for Editing UHD Contents
			1570133883	Factors Influencing Big Data Strategies: a View from Literature
			1570120325	New charge pump with perfect current matching characteristics for low-jitter PLL applications

Thursday, July 2, 2015				
Time	Presentation	Session	Paper number	Paper title
09:00~10:40	Oral	Communication: Wireless Communication 4	1570121029	Symbol Timing Recovery for Faster Than Nyquist Signaling Transmission
			1570121799	A Low Complexity Timing Offset Estimation Method based on Dual-Correlation for Wireless Wide Area Network
			1570121757	FFT based Modulation Detection Method for RF Energy Harvesting in Adaptive Modulation OFDM System
			1570132097	Delay Spread Measurements of 28GHz at LoS Urban Environments
		Communication: Multi-antenna Transmission	1570123327	Efficient Inversion of Large Overlapped Block Diagonal Matrices
			1570147571	Low Complexity Iterative Precoder for Downlink MU-MIMO Systems
			1570137565	An Antenna with Enhanced Cross Polarization level for MIMO Communication
			1570122057	Fixed-Complexity Even-Odd Sequence Lattice Reduction Algorithm for Large MIMO Systems
			1570127541	Study of Multiple Antenna Placement Used in Mobile Device
		Computer : Convergence/Visual Computing	1570125701	Design and Implementation of Hand Pose Rally System based on Image Processing
			1570127795	A Management System for the Full/Empty Information of Parking Garage Using image Processing and Statistics
			1570135213	An AR-based support system of resume writing
			1570135287	Compensating the Projection Latency in Spatial Augmented Reality
		C&S: System 3	1570121797	The avoidance from central node of selected routes by centrality measure
			1570120797	Situation Recognition from Behavior Logs in Caregiving Services
			1570121667	Exploring Parameter-Type Compiler Options for Accelerating Program Execution
			1570128215	Development of a Game console with High Level Hardware description Language NSL
		C&S: RF2	1570121873	Keystroke dynamics-based user authentication by Japanese old poems
			1570127361	A Design of Power Amplifier for 2.4 GHz QPSK Transceiver with Linear Gain Control in CMOS 0.18 um
			1570127255	A DC - 18 GHz SP4T Switch using SOI CMOS
			1570121849	A Compact 20W GaN Power Amplifier using Si-IPDs and SLCs
			1570127625	Cross-coupled Transistor Load Structure in Differential Pairs
			1570119487	Complex chaos disappearance generated in a Bonhoeffer-van der Pol oscillator under a weak periodic perturbation