

Program Schedule

Monday, October 24, 2016

Time	Event
11:00- 13:00	ECTI committee lunch at Sunset Restaurant
13:00- 17:30	ECTI Meeting at Bu-Nga
15:00- 18:00	Registration at Foyer
18:00- 19:30	Welcome Reception at Sky Pool

Tuesday, October 25, 2016

Time	Events
08:00-08:30	On-site Registration at Foyer
08:30-09:00	Opening Ceremony at Orchid Grand Ballroom
Keynote Speech at Orchid Grand Ballroom	
09:00-09:45	Keynote Speech I: Professor Fumitoshi Matsuno, Kyoto University, Japan; (Chair: Kosin Chamnongthai)
09:45-10:30	Keynote Speech II: Mr. Kam Opasjumruskit, Silicon Craft Technology, Thailand; (Chair: Panuwat Janpugdee)
10:30-10:40	Break at Foyer

Time	<u>Room: Orchid</u> <u>Session 1A:</u> Image Processing I	<u>Room: Dalah I</u> <u>Session 1B:</u> VLSI for Signal Processing	<u>Room: Dalah II</u> <u>Session 1C:</u> Radar, Antenna and Mobile Signal Processing I	<u>Room: Dalah III</u> <u>Session 1D:</u> Circuits and Systems	<u>Room: Bu-Nga</u> <u>Session 1E:</u> Coding, Modulation and signal Processing for Wireless Communications I
10:40-11:00	PID-15	PID-4	PID-41	PID-83	PID-65
11:00-11:20	PID-19	PID-11	PID-67	PID-118	PID-104
11:20-11:40	PID-20	PID-32	PID-108	PID-130	PID-119
11:40-12:00	PID-25	PID-52			
12:00-13:00	Lunch at Bualuang Restaurant				

Time	<u>Room: Orchid</u> <u>Session 2A:</u> Image Processing II	<u>Room: Dalah I</u> <u>Session 2B:</u> Intelligent Communications	<u>Room: Dalah II</u> <u>Session 2C:</u> Radar, Antenna and Mobile Signal Processing II	<u>Room: Dalah III</u> <u>Session 2D:</u> Adaptive, Non-linear and Multidimensional Signal Processing	<u>Room: Bu-Nga</u> <u>Session 2E:</u> Coding, Modulation and Signal Processing for Wireless Communications II
13:00-13:20	PID-26	PID-101	PID-86	PID-6	PID-120
13:20-13:40	PID-36	PID-127	PID-111	PID-10	PID-141
13:40-14:00	PID-44	PID-29	PID-84	PID-38	PID-58
14:00-14:20	PID-56	PID-57		PID-150	
14:20-14:40	Break at Foyer				

Time	<u>Room: Orchid</u> <u>Session 3A:</u> Image Processing III	<u>Room: Dalah I</u> <u>Session 3B:</u> Audio/Acoustic Signal and Speech Processing	<u>Room: Dalah II</u> <u>Session 3C:</u> Modeling, Simulation and CAD Tools	<u>Room: Dalah III</u> <u>Session 3D:</u> Advanced Signals and Sytems	<u>Room: Bu-Nga</u> <u>Session 3E:</u> DSP for IoT Networks
14:40-15:00	PID-99	PID-9	PID-8	PID-37	PID-3
15:00-15:20	PID-103	PID-18	PID-45	PID-43	PID-12
15:20-15:40	PID-78	PID-79	PID-60	PID-143	PID-93
15:40-16:00	PID-81	PID-85	PID-87	PID-144	PID-95
16:00-16:20	PID-82	<u>Closed session</u>	PID-161		PID-135
16:20-16:40	PID-90	LED-Smart Connections Speaker: Keattisak Sripimanwat			PID-152
16:40-17:00	PID-96				PID-153
17:00-18:00					

Wednesday, October 26, 2016

Time	Events				
08:30-09:00	On-site Registration at Foyer				
Keynote Speech at Orchid Grand Ballroom (Chair: Sinchai Kamolphiwong)					
09:00-09:45	Keynote Speech III: Professor Kazumasa Kobayashi, Kurashiki University of Science and the Arts, Japan				
09:45-10:30	Keynote Speech IV: Professor Terence Sim, National University of Singapore, Singapore				
10:30-10:40	Break at Foyer				
Time	<u>Room: Orchid</u> <u>Session 4A:</u> Image Processing IV	<u>Room: Dalah I</u> <u>Session 4B:</u> Wireless/Communication Systems I	<u>Room: Dalah II</u> <u>Workshop</u>	<u>Room: Dalah III</u> <u>Session 4D:</u> Analog Circuits and their Applications I	<u>Room: Bu-Nga</u> <u>Session 4E:</u> Future of Internet I
10:40-11:00	PID-68	PID-5	TBA	PID-24	PID-35
11:00-11:20	PID-69	PID-48		PID-50	PID-47
11:20-11:40	PID-128	PID-49		PID-55	PID-97
11:40-	PID-138	PID-53		PID-61	

12:00					
12:00-13:00	Lunch at Bualuang Restaurant				
Time		<u>Room: Dalah I</u> <u>Session 5B:</u> Wireless/Communication Systems II	<u>Room: Dalah II</u> <u>Workshop</u>	<u>Room: Dalah III</u> <u>Session 5D:</u> Multimedia and Systems	<u>Room: Bu-Nga</u> <u>Session 5E:</u> Future of Internet II
13:00-13:20		PID-66	TBA	PID-40	PID-112
13:20-13:40		PID-91		PID-76	PID-125
13:40-14:00		PID-92		PID-126	PID-131
14:00-14:20		PID-121		PID-149	
14:20-14:40	Break at Foyer				

Time		<u>Room: Dalah I</u> Session 6B: Filters	<u>Room: Dalah II</u> Session 6C: Signal and Data Processing	<u>Room: Dalah III</u> Session 6D: Analog Circuits and their Applications II	<u>Room: Bu-Nga</u> Closed Session
14:40- 15:00		PID-16	PID-22	PID-70	Thai Quantum Information Forum Speaker: Keattisak Sripimanwat
15:00- 15:20		PID-39	PID-80	PID-71	
15:20- 15:40		PID-54	PID-129	PID-74	
15:40- 16:00		PID-73		PID-75	
16:00- 16:20		PID-88		PID-77	
16:20- 16:40		PID-116		PID-94	
18:00- 21:00	ISPACS2016 Banquet at Orchid Grand Ballroom				

Please Note: Closed Meeting for the ISPACS Steering Committee Meeting at Flavor Restaurant from 12:00-15:20 October 26, 2016

Thursday, October 27, 2016

Time	Event
08:30-12:00	Phuket Attractions: a half-day tour

Parallel Sessions 1A: Image Processing I

Date/Time/Room: Tuesday, October 25, 2016 / 10:40-12:00 / Orchid Grand Ballroom

Chair: Somsak Choomchuay

PID-15 : *Color Correction on Digital Image Based on Reference Color Charts Surrounding Object*

Chanjira Sinthanayothin, Wisarut Bholsithi, Nonlapas Wongwaen

PID-19 : *Image Denoising using Non-local Means for Poisson Noise*

Kousuke Imamura, Naoki Kimura, Fumiaki Satou, Shigeru Sanada, Yoshio Matsuda

PID-20 : *Reflectance Spectra Recovery with Non-negativity Constraints*

Kohei Inoue, Kenji Hara, and Kiichi Urahama

PID-25 : *Data Detection Method from Printed Images with Different Resolutions Using Tablet Device*

Yuuya Moritani, Atsushi Yoshihara, Nayuta Jinda and Mitsuji Muneyas

Parallel Sessions 1B: VLSI for Signal Processing

Date/Time/Room: Tuesday, October 25, 2016 / 10:40-12:00 / Dalah I

Chair: Amy Hamidah Salman

PID-4 : *Parallel Morphological Template Matching Design for Efficient Human Detection Application*

Trio Adiono, Radhian Ferel Armansyah, Fadhli Dzil Ikram, Swizya Satira Nolika, Rachmad Vidya Wicaksana Putra, Amy Hamidah Salman

PID-11 : *Super-CORDIC: An Approximation Based Parallel and Redundant CORDIC Algorithm*

Tushar Supe, David Anderson

PID-32 : Automatic Rule Registration and Deletion Function on a Packet Lookup Engine LSI

Tetsuya Matsumura, Kousuke Imamura, Yoshifumi Kawamura, and Yoshio Matsuda

PID-52 : An Architecture Design of SAD Based Template Matching for Fast Queue Counter in FPGA

Trio Adiono, Mahendra Drajat Adhinata, Novi Prihatiningrum, Ricky Disastra, Rachmad Vidya Wicaksana Putra, Amy Hamidah Salman

Parallel Sessions 1C: Radar, Antenna and Mobile Signal Processing

Date/Time/Room: Tuesday, October 25, 2016 / 10:40-11:40 / Dalah II

Chair: Rounsang Chaisricharoen

PID-41 : Dual-band Microstrip Line-Fed Antenna with Fractal Spidron Defected Ground Structure

Munish Kumar, Vandana Nath

PID-67 : Sound Source Tracking via Two Microphones Based on MUSIC Using PSO

Kenta Omiya and Kenji Suyama

PID-108 : Improved Passenger Ticket Control in Easily Accessible Public City Trams

Roman Khoebal, Chayapol Kamyod, Teeravisit Laohapensaeng, Rounsang Chaisricharoen

Parallel Sessions 1D: Circuits and Systems

Date/Time/Room: Tuesday, October 25, 2016 / 10:40-11:40 / Dalah III

Chair: Montree Kumngern

PID-83 : *CMOS D/A Converter Using Current Conveyor Analogue Switches*

Thanat Nonthaputha, Montree Kumngern, Phichet Moungnoul

PID-118 : *CMOS Sample-and-Hold Circuit Using Current Conveyor Analogue Switch*

Thanat Nonthaputha, Montree Kumngern, Somkiat Lerkvaranyu

PID-130 : *A Wien-Type Oscillator Using ECCII*

Pichai Suksaibul, Somkiat Lerkvaranyu, Montree Kumngern

Parallel Sessions 1E: Coding, Modulation and Signal Processing for Wireless Communications I

Date/Time/Room: Tuesday, October 25, 2016 / 10:40-11:40 / Bu-Nga

Chair: Richard H.-H. Yang

Co-Chair: Jia-Chyi Wu

PID-65 : *The Exact Asymptotic Error Performance of Catastrophic CPM over AWGN Channels*

Richard H.-H. Yang, Chia-Kun Lee, Shiunn-Jang Chern

PID-104 : *Power and bandwidth efficient binary CPM with modulation index $h = 1$*

Richard H.-H. Yang, Ming-Tsai Lee, Chia-Kun Lee, Shiunn-Jang Chern

PID-119 : *The Effects of Mutual Coupling for the Space-Time Block Coded MIMO-OFDM Systems*

Shiunn-Jang Chern, Wan-Jen Huang, and Hsing-I Liu

Parallel Sessions 2A: Image Processing II

Date/Time/Room: Tuesday, October 25, 2016 / 13:00-14:20 / Orchid Grand Ballroom

Chair: Chanjira Sinthanayothin

PID-26 : *Automatic Background Subtraction Algorithm for 3D Object by Using Connected-Component Labeling Algorithm*

Nonlapas Wongwaen, Chanjira Sinthanayothin

PID-36 : *Preprocessing Techniques Based on LBP and Gabor Filters for Clothing Classification*

Srisupang Thewsuwan and Keiichi Horio

PID-44 : *Quantitative study of facial expression asymmetry using objective measure based on neural networks*

Tsuyoshi Makioka, Yuya Kuriyaki, Keiichi Uchimura, Takami Satonaka

PID-56 : *An Inverse Tone Mapping Operator Based on Reinhard's Global Operator*

Yuma Kinoshita, Sayaka Siota and Hitoshi Kiya

Parallel Sessions 2B: Intelligent Communications

Date/Time/Room: Tuesday, October 25, 2016 / 13:00-14:20 / Dalah I

Chair: Min-Jong Hao

PID-101 : *Study on the latency efficient IFFT design method for low latency communication systems*

In-Gul Jang, Gweon-Do Jo

PID-127 : *Rate-Adaptive FF-LDGM Code with Selective Inter-leaving Scheme*

Takayuki Nakachi and Tatsuya Fujii

PID-29 : *Pilot Assignment for PTS-OFDM with Channel Estimation for PAPR Reduction*

Miin-Jong Hao, Ping-Hsun Huang

PID-57 : *Time Frequency Analysis: A Sparse S Transform Approach*

Kashyap Patel, Nikhil Cherian Kurian and Nithin V. George

Parallel Sessions 2C: Radar, Antenna and Mobile Signal Processing

Date/Time/Room: Tuesday, October 25, 2016 / 13:00-14:00 / Dalah II

Chair: Komsan Kanjanasit

PID-86 : *A High Performance Micromachined CPW Fed Aperture Coupled Compact Patch Antenna Using a Double-Tuned Impedance Matching Method*

Komsan Kanjanasit, Changhai Wang

PID-111 : *Design of Reject frequency Band and Multi Band CPW-fed Monopole Antenna with Control Notched Band for WLAN/WiMAX Applications*

Nipont Tangthong, Rattapon Jeenawong, Somsak Akatimagool

PID-84 : *Bidirectional Circular Patch Antenna for WLAN Applications*

Kathawut Rojanasaroach, Teeravisit Laohapensaeng

Parallel Sessions 2D: Adaptive, Non-linear and Multidimensional Signal Processing

Date/Time/Room: Tuesday, October 25, 2016 / 13:00-14:20 / Dalah III

Chair: Krishna Battula

PID-6 : Analysis of Affine Projection Normalized Correlation Algorithm

Shin'ichi Koike

PID-10 : Novel Least Mean Square Algorithm

B.T. Krishna

PID-38 : Identification of a Box-Jenkins Structured Two Stage Cascaded Model Using Simplex Particle Swarm Optimization Algorithm

P. S. Pal, A. Dasgupta, J.R. Akhil, R. Kar, D. Mandal, S. P. Ghoshal

PID-150 : Correlation based Active Regions Identification from fMRI Data

Nattapol Aunsri, Waralak Chongdarakul

Parallel Sessions 2E: Coding, Modulation and Signal Processing for Wireless Communications II

Date/Time/Room: Tuesday, October 25, 2016 / 13:00-14:20 / Bu-Nga

Chair: Richard H.-H. Yang

Co-Chair: Jia-Chyi Wu

PID-120 : Simulation Study for FFT-Based Expand-Truncate Equalizer under the Measured Outdoor Channels

Jia-Chyi Wu, Chi-Min Li and Jia-Ching Huang

PID-141 : An adaptive demodulation for OFDM Signal

Anchalee Manosueb, Jeerasuda Koseeyaporn and Paramote Wardkein

PID-58 : *Multipath Interference Cancellation in Multiantenna System with Blind Channel Estimation Method*
Sarun Duangsuwan and Sathaporn Promwong

Parallel Sessions 3A: Image Processing III

Date/Time/Room: Tuesday, October 25, 2016 / 14:40-17:00 / Orchid Grand Ballroom

Chair: Nikom Suvonvorn

PID-99 : *A Study of Transformation of Object Location from an Image Plane to a 3D Space Based on Vanishing Point and Reference Points on the 3D Axes*

Teerasak Chotikawanid, Watcharapan Suwansantisuk and Pinit Kumhom

PID-103 : *Quality Improvement of Tone Mapped Images by TMQI-II based Optimization for the JPEG XT Standard*

Artit Visavakitcharoen, Yuma Kinoshita, Hiroyuki Kobayashi and Hitoshi Kiya

PID-78 : *Clothing-invariant Gait Recognition Using Convolutional Neural Network*

TzeWei Yeoh, Hernán E. Aguirre and Kiyoshi Tanaka

PID-81 : *Silkworm Egg Image Analysis using Different Color Information for Improving Quality Inspection*

Kantip Kiratiratanapruk, Wasin Sinthupinyo

PID-82 : *Dynamic Cloud Offloading for 2D-to-3D Conversion*

Qian Li, Xin Jin, Zhanqi Liu and Qionghai Dai

PID-90 : *Processing Time Reduction of Tone Mapping Based on Iterative Shrinkage Smoothing Using Parallel Processing*

Seiji Imai, Dabwitso Kasauka, Hiroshi Tsutsui, Takashi Imagawa, Hiroyuki Okuhata, and Yoshikazu Miyanaga

PID-96 : ToA-based Positioning System for Industrial Wireless LAN

Khairunisa Ahmad Denney, Mitsuru Hamada, Yuhei Nagao, Masayuki Kurosaki and Hiroshi Ochi

Parallel Sessions 3B: Audio/Acoustic Signal and Speech Processing

Date/Time/Room: Tuesday, October 25, 2016 / 14:40-16:00 / Dalah I

Chair: Tomohisa Wada

PID-9 : Comparison of SC-FDM with OFDM in Underwater Acoustic Communication System

Hidemitsu Kiyuna, Rie Saotome, Tran Minhhai, Atsushi Kinjo, Taisaku Suzuki, Tomohisa Wada

PID-18 : A Subjective Evaluation of the Effects of Speech Coding on the Perception of Emotions

Félix Labelle, Roch Lefebvre and Philippe Gournay

PID-79 : Cross-Correlation Functions with Binary Signal Involving Phase Information for Speech Enhancement

Kyohei Mitani, Yosuke Sugiura and Tetsuya Shimamura

PID-85 : Speech Envelope Estimation and Voiceless Consonant Restoration for Artificial Bandwidth Extension of Narrow Band Speech

Shun Asawa, Yosuke Sugiura and Tetsuya Shimamura

Parallel Sessions 3C: Modeling, Simulation and CAD Tools

Date/Time/Room: Tuesday, October 25, 2016 / 14:40-16:20 / Dalah II

Chair: Trio Adiono

PID-8 : *High-Performance Noise Tolerant Comparator Design for Arithmetic Circuits*

Preetisudha Meher, Kamala Kanta Mahapatra

PID-45 : *Design of low power two bit magnitude comparator using adiabatic logic*

Dinesh Kumar, Manoj Kumar

PID-60 : *3D Modeling Based on Multiple Unmanned Aerial Vehicles with the Optimal Paths*

Leye Wei, Xin Jin, Zhiyong Wu

PID-87 : *Analysis of Unstable Periodic Solution of Nonlinear Circuits using Haar Wavelet Transform*

Kohei Takamatsu, Tatsuya Nakabayashi, and Seiichiro Moro

PID-161 : *Modelling and Temperature Control for a Ceramic Furnace at Mar Fha Luang University Ceramic Lab*

Khaled Kessali

Parallel Sessions 3D: Advanced Signals and Systems

Date/Time/Room: Tuesday, October 25, 2016 / 14:40-16:40 / Dalah III

Chair: Kosin Chamnongthai

Co-Chair: Montri Phothisonothai

PID-37 : *Adaptive local module weight for Feature fusion in gait identification*

P. Nangtin, P. Kumhom, and K. Chamnongthai

PID-43 : Development of Stance Correction System for Billiard Beginner Player --Stance Estimation with the Position of Arm Joint

Masashi Mishima, Akira Suganuma

PID-143 : Automated Detection of Exudates Using Histogram Analysis for Digital Retinal Images

Khin Yadanar Win, Somsak Choomchuay

PID-144 : Using Statistical Parametric Contour and Threshold Segmentation Technology Applied in X-ray Bone Images

Kuang-Yi Chou, Chien-Sheng Lin, Chin-Hsiang Chien, Jen-Shiun Chiang, Chih-Hsien Hsia

Parallel Sessions 3E: Digital Signal Processing for Internet of Thing Networks

Date/Time/Room: Tuesday, October 25, 2016 / 14:40-17:00 / Bu-Nga

Chair: Hiroshi Tsutsui

PID-3 : Multi-Agent Q-Learning for Autonomous D2D Communication

Alia Asheralieva, Yoshikazu Miyanaga

PID-12 : SC-FDE vs OFDM: Performance Comparison in Shallow-Sea Underwater Acoustic Communication

Shingo Yoshizawa, Hiroshi Tanimoto, Takashi Saitoy

PID-93 : Threshold Decision for Rank Adaptation Based on Cumulative Channel Capacity

Kazuki Aono, Naoto Sasaoka and Yoshio Itoh

PID-95 : ToA-based Positioning System for Industrial Wireless LAN

Khairunisa Ahmad Denney, Mitsuru Hamada, Yuhei Nagao, Masayuki Kurosaki and Hiroshi Ochi

PID-135 : Automated Patient Appointment Reminder for Cross-platform Mobile Application
Jirabhron Chaiwongsai, Phonthep Preecha, and Siwapan Intem

PID-152 : A TVAR Particle Filter with Adaptive Resampling for Frequency Estimation
Nattapol Aunsri

PID-153 : A Particle Filtering Approach for Noisy Seismic Events Tracking
Nattapol Aunsri

Parallel Sessions 4A: Image Processing IV

Date/Time/Room: Wednesday, October 26, 2016 / 10:40-12:00 / Orchid Grand Ballroom
Chair: Akira Taguchi

PID-68 : Hue-Preserving Color Image Processing with a High Arbitrariness Without Gamut Problem
Minako Kamiyama Akira Taguchi

PID-69 :Color Image Enhancement Based on Hue Differential Histogram Equalization
Janani Purushothaman, Minako Kamiyama and Akira Taguchi

PID-128 : Single Image Fog Removal Algorithm based on an Improved Dark Channel Prior Method
Chi-Chia Sun, Heng-Chi Lai, Ming-Hwa Sheu and Yi-Hsing Huang

PID-138 : Automated Determination of Watermelon Ripeness Based on Image Color Segmentation and Rind Texture Analysis
Montri Phothisonothai, Suchada Tantisatirapong, and Apinan Aurasopon

Parallel Sessions 4B: Wireless/Communication Systems I

Date/Time/Room: Wednesday, October 26, 2016 / 10:40-12:00 / Dalah I

Chair: Petcharat Suriyachai

PID-5 : *A Single Iteration Belief Propagation Algorithm to Minimize the Effects of Primary User Emulation Attacks*

Sasa Maric, Sam Reisenfeld, Leonardo Goratti

PID-48 : *Improving Motorcycle Anti-Theft System with the use of Bluetooth Low Energy 4.0*

Wittaya Koodtalang, Thaksin Sangsuwan

PID-49 : *Performance Study of IEEE 802.11p in Blind Corner Scenario*

Sanchai Jaktheerangkoon, Kulit Na Nakorn, and Kultida Rojviboonchai

PID-53 : *A Novel Design Method of Digital-Digital Sequences in DS/CDMA Code-Diversity Systems*

Shin'ichi Tachikawa and Hiroki Sanada

Parallel Sessions 4D: Analog Circuits and their Applications I

Date/Time/Room: Wednesday, October 26, 2016 / 10:40-12:00 / Dalah III

Chair: Hao San

Co-Chair: Nicodimus Retdian

PID-24 : *Variable Frequency Characteristics Multi-Channel On-Chip Patch-Clamp System Using 0.18 μ m CMOS Technology*

Masahiro Kubo, Taro Kosaka, Takanori Miyawaki, Kota Ito, Nobuhiko Nakano

PID-50 : A Linear Transconductor Utilizing Body Transconductance for Low-Power and Low Frequency Applications

Takeshi Ohbuchi and Fujihiko Matsumoto

PID-55 : Power Line Noise Suppression using N-path Notch Filter for EEG

Nicodimus Retdian, Takeshi Shima

PID-61 : Area-efficient Cross-Coupled Charge Pump for On-chip Solar Cell

Yoshimasa Minami, Kazuma Igarashi, Takaya Sugiura, Nobuhiko Nakano

Parallel Sessions 4E: Future of Internet I

Date/Time/Room: Wednesday, October 26, 2016 / 10:40-11:40 / Bu-Nga

Chair: Sinchai Kamolphiwong

PID-35 : QoS Routing Design for Adaptive Streaming in Software Defined Network

Xianshu Jin, Hwiyun Ju, Sungchol Cho, Boyeong Mun, Cheongbin Kim, Sunyoung Han

PID-47 : QLB: QoS Routing Algorithm for Software-Defined Networking

Piyawit Tantisarkhornkhet, Warodom Werapun

PID-97 : Mitigate the Load Sharing of Segment Routing for SDN green Traffic Engineering

Chakadkit Thaenchaiakun, Gentian Jakllari, Beatrice Paillassa, Wasimon Panichpattanakul

Parallel Sessions 5B: Wireless/Communication Systems II

Date/Time/Room: Wednesday, October 26, 2016 / 13:40-14:20 / Dalah I

Chair: Wasimon Panichpattanakul

PID-66 : *Extraction Model of Soil Water Content Information Based on Least Square Method for GPR*

A.A Pramudita, Lydia Sari

PID-91 : *Performance Evaluation of OFDMA Random Access in IEEE802.11ax*

Tatsumi Uwai, Takuma Miyamoto, Yuhei Nagao, Leonardo Lanante Jr., Masayuki Kurosaki and Hiroshi Ochi

PID-92 : *A Low-Cost Local Cloud Monitoring System*

Thitinan Kliangsuwan, Apichat Heednacram

PID-121 : *Comparative Analysis of RFID Anti-Collision Algorithms in IoT Applications*

S. Charoenpanyasak, Y. Sasiwat, W. Suntiamorntut, S. Tontisirin

Parallel Sessions 5D: Multimedia and Systems

Date/Time/Room: Wednesday, October 26, 2016 / 13:00-14:20 / Dalah III

Chair: Kiyoshi Tanaka

PID-40 : *Reversible Data Hiding Methods Based on Audio and Video Synchronization in MP4 Container*

Imdad MaungMaung, KokSheik Wong, Kiyoshi Tanaka

PID-76 : *Fast High-Definition Video Background Completion Using Features Tracking*

Jocelyn Benoit, Eric Paquette

PID-126 : *Key Factor to Improve Adversity Quotient in Children through Mobile Game-based Learning*

Siwaporn Boonsamuan, Banphot Nobaew

PID-149 : ***A Heuristic-Genetic Algorithm for Client Web Service Scheduling Constrained by One I/O Port***
Waralak Chongdarakul

Parallel Sessions 5E: Future of Internet II

Date/Time/Room: Wednesday, October 26, 2016 / 13:00-14:00 / Bu-Nga
Chair: Sinchai Kamolphiwong

PID-112 : ***SDN Experimental on the PSU Network***
Piyawit Tantisarkhornkhet, Warodom Werapun, Beatrice Paillassa

PID-125 : ***A Self-sustaining Unmanned Aerial Vehicle Routing Protocol for Smart Farming***
Prusayon Nintanavongsa, Weerachai Yaemvachi, and Itarun Pitimon

PID-131 : ***SDN-based Network Mobility***
P. Sornlertlamvanich, T. Ang-Chuan, S. Sae-Wong, T. Kamolphiwong, and S. Kamolphiwong

Parallel Sessions 6B: Filters

Date/Time/Room: Wednesday, October 26, 2016 / 14:40-16:40 / Dalah I
Chair: Yoshio Itoh

PID-16 : ***Blind Signal Separation based on band division using QMF Bank***
Kazuaki Matsushima, Hiroki Matsumoto

PID-39 : Design of IIR Filters with Constraints Using Multi-Swarm PSO

Haruna Aimi and Kenji Suyama

PID-54 : Verification of Search Process in CSD Coefficient FIR Filter Design

Tomohiro Sasahara and Kenji Suyama

PID-73 : Cryptanalysis of a Random Number Generator Based on a Double-Scroll Chaotic Oscillator

Salih Ergün

PID-88 : Fast implementation of Gaussian filter by parallel processing of binominal filter

Takahiro Yano, Yoshimitsu Kuroki

PID-116 : 0.5-V Fully Differential Allpass Section

Punnavich Phatsornsiri, Montree Kumngern, Fabian Khateb

Parallel Sessions 6C: Signal and Data Processing

Date/Time/Room: Wednesday, October 26, 2016 / 14:40-15:40 / Dalah II

Chair: Sethakarn Prongnuch

PID-22 : Kurtosis and Energy Based Spectrum Detection for SDR Based RF Monitoring System

Prasetiyo, Rachmad Vidya Wicaksana Putra, Trio Adiono, Amy Hamidah Salman

PID-80 : Effective Heart Sounds Detection Method Based on Signal's Characteristics

Amy Hamidah, Ricky Saputray, Tati L. R. Mengkoz, Richard Mengkox, and Bambang Anggoro

PID-129 : Heterogeneous Computing Platform for Data Processing

Sethakarn Prongnuch¹, Theerayod Wiangtong

Parallel Sessions 6D: Analog Circuits and their Applications II

Date/Time/Room: Wednesday, October 26, 2016 / 14:40-16:40 / Dalah III

Chair: Hao San

Co-Chair: Nicodimus Retdian

PID-70 : *A 0.35-V Inductorless DC–DC Converter Using Non-SOI CMOS Technology*

Haidong Sun, Sho Hoshino, Hirokazu Yoshizawa, Fumiyasu Utsunomiya, Minoru Sudo

PID-71 : *Leakage Current Compensation Technique of ESD Protection Circuit for CMOS Operational Amplifier*

Kohen Chin, Atsushi Kitajima, Yoshiaki Arai, Jun Yamashita, Hisashi Ito, Hao San

PID-74 : *A Distinct Operation Frequency Cascaded N-path Filter with Improved Harmonic Rejection Ability*

Takahide Sato, Zi Hao Ong, Syunsuke Kasai

PID-75 : *A 2nd-order $\Delta\Sigma$ AD Modulator using Dynamic Amplifier and Dynamic SAR Quantizer*

Chunihui Pan, Hao San, Tsugumichi Shibata

PID-77 : *Study on Offset Reduction Method for a Fully Differential Filter Employing Symmetrical Floating Impedance Scaling Circuits*

Fujihiko Matsumoto, Shota Matsuo, Syuzo Nishioka, Hakumi Abe, and Takeshi Ohbuchi

PID-94 : *Stress Direction and Temperature Detectable Octagonal nMOSFET Multi Operation Device*

Tomochika Harada and Koyo Kaiwa