Conference Program of ISMAC 2017
August 23-25, 2017

Day 1 : Wednesday 23 August 2017		
Room	**Yodia Room**	**Second Floor**
13.30 – 16.00	**Registration**	

Day 2 : Thursday 24 August 2017			
Room	**Yodia Room**		**Second Floor**
08.00 – 16.00	**Registration**		
08.45 - 09.00	**Opening Ceremony**		
09.00 - 09.45	**Keynote Speech I :** ***Current Business Status of Japan's Telecommunications Operators*** *by Prof. Kazuyoshi Sawada, Audit & Supervisory Board Member, WebMoney Corporation, Japan*		
09.45 - 10.30	**Keynote Speech II :** ***Complex Network; Case Study on ECG-Based Feature Extraction for Epileptic Seizure Detection, and EMG-Based Feature Extraction for Myopathy and Neuropathy Detection*** *by Prof. Kosin Chamnongthai, King Mongkut's University of Technology Thonburi (KMUTT), Thailand*		
10.30 - 10.40	**Coffee/Tea Break**		
Session Room	**YODIA**	**SAI**	**PRADU**
Time	**THM1: Image processing and its application**	Committee of Research and Development Institute Meeting	**THM2: Communication circuit design**
10.40 – 11.00	**THM1-1**		**THM2-1**
11.00 – 11.20	**THM1-2**		**THM2-2**
11.20 – 11.40	**THM1-3**		**THM2-3**
11.40 – 12.00	**THM1-4**		
12.00 - 13.00	**Lunch**		
Room	**Yodia Room**		**Second Floor**
13.00 – 13.45	**Keynote Speech III :** ***Innovative Sensor Technology Developed for Thai Industry*** *by Prof. Prayoot Akkaraekthalin, King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand*		

Conference Program of ISMAC 2017
August 23-25, 2017

Day 2 : Thursday 24 August 2017

Room	Yodia Room	Second Floor
13.45 – 14.30	**Keynote Speech IV :** ***Global Navigation Satellite System (GNSS) Research for Aviation and Atmospheric Study*** *by Prof. Pornchai Supnithi, King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand*	
14.30 - 14.40	**Coffee/Tea Break**	
Room	**Yodia Room**	**Second Floor**
14.40 – 15.20	**Thai Sanko Co., LTD., present about Technology and Product.**	
15.20 – 16.00	**Meiden Electric (Thailand) LTD., present about Technology and Product.**	

Session Room	YODIA	SAI	PRADU
Time	**THA1: Biomedical signal processing and applications**	**THA2: Wireless Networking and Related Technologies for Constructing the Research Environment**	**THA3: Wireless communication systems I**
16.00 – 16.20	**THA1-1**	**THA2-1**	**THA3-1**
16.20 – 16.40	**THA1-2**	**THA2-2**	**THA3-2**
16.40 – 17.00	**THA1-3**	**THA2-3**	**THA3-3**
17.00 – 17.20	**THA1-4**	**THA4-4**	**THA3-4**
17.20 – 17.40	**THA1-5**	**THA5-5**	
17.40 – 18.00	**THA1-6**		
18.30 - 21.30	**Banquet**		

Conference Program of ISMAC 2017
August 23-25, 2017

Day 3 : Friday 25 August 2017

Room	Yodia Room		Second Floor
08.00 – 13.00	**Registration**		
Session Room	**YODIA**	**SAI**	**PRADU**
Time	**FRM1: Signal processing and applications**	**FRM2: Optimization and Engineering Management**	**FRM3: Wireless communication systems II**
09.20 – 09.40	**FRM1-1**	**FRM2-1**	**FRM3-1**
09.40 – 10.00	**FRM1-2**	**FRM2-2**	**FRM3-2**
10.00 – 10.20	**FRM1-3**	**FRM2-3**	**FRM3-3**
10.20 – 10.30	**Coffee/Tea Break**		**FRM3-4**
10.30 – 10.50	**FRM1-4**	**FRM2-4**	**Coffee/Tea Break**
10.50 – 11.10	**FRM1-5**	**FRM2-5**	
11.10 – 11.30		**FRM2-6**	
11.30 - 13.00	**Lunch**		
Session Room	**YODIA**		**PRADU**
Time	**FRA1: Innovation and business engineering**		**FRA2: Electrical power systems and applications**
13.00 – 13.20	**FRA1-1**		**FRA2-1**
13.20 – 13.40	**FRA1-2**		**FRA2-2**
13.40 – 14.00	**FRA1-3**		**FRA2-3**
14.00 – 14.20	**FRA1-4**		
14.20 – 14.40	**FRA1-5**		
14.40 – 15.00	**Coffee/Tea Break**		

Keynote Speaker I : Prof. Kazuyoshi Sawada
Topic: Current Business Status of Japan's Telecommunications Operators.

Keynote Speaker II : Prof. Kosin Chamnongthai
Topic: Complex Network; Case Study on ECG-Based Feature Extraction for Epileptic Seizure Detection, and EMG-Based Feature Extraction for Myopathy and Neuropathy Detection.

Keynote Speaker III : Prof. Prayoot Akkaraekthalin
Topic: Innovative Sensor Technology Developed for Thai Industry.

Keynote Speaker IV : Prof. Pornchai Supnithi
Topic: Global Navigation Satellite System (GNSS) Research for Aviation and Atmospheric Study.

.....

THM1: Image processing and its application

THM1-1	An Evaluation of Foreground Extraction Using Background Subtraction and GrabCut
THM1-2	PDE-based image upscaling that suppresses coding artifacts
THM1-3	Color Image Enhancement in HSI Color Space with Saturation Correction
THM1-4	Color Image Enhancement Method with Variable Enhancement Degree

THM2: Communication circuit design

THM2-1	Low Power Hybrid Memristor-CMOS Full Adder Circuit using NAND gate
THM2-2	Quaternary CMOS Schmitt Trigger Circuit Design
THM2-3	A 4-Quadrant Analog Multiplier/Divider Using CCTA-based Voltage to Current Converter

THA1: Biomedical signal processing and applications

THA1-1	Ground Penetrating Radar (GPR) by using Finite Element Method
THA1-2	Solving for Complex Permittivity of Biomedical Tissue from Open-Ended Probe Measurement
THA1-3	Investigation of Lumbosacral Orthotics's Effect in Bending Posture
THA1-4	Development of Phantom Model for the Dielectric Property Measurement
THA1-5	Through the wall radar Simulation of human Dielectric scattering
THA1-6	Dielectric Properties of Tissue Analysis for Breast Cancer Detection

THA2: Wireless Networking and Related Technologies for Constructing the Research Environment

THA2-1	A Circuit Design for IEEE 802.11ac by ASIC-FPGA Co-Design
THA2-2	A Study on Human Motion Learning Support System with Augmented Reality Enabling Wireless Technology
THA2-3	Low-Cost Adaptive Block-Based Lossless Compression Method for Memory Bandwidth Reduction
THA2-4	A Virtual Collaboration Environment on the Cloud Computing
THA2-5	Enumeration of Coherent Signals and Their Independent Components Based on MDL Principle

THA3: Wireless communication systems I

THA3-1	EVM analysis for DVB-T2 in Thailand
THA3-2	On the Uplink Blind Equalization in a Massive MU-MIMO Systems to Avoid Pilot Contamination
THA3-3	Performance of Uplink Channel Estimation in a Massive MU-MIMO System
THA3-4	Fabric Antenna for Wireless Body Area Network at 2.4 GHz

FRM1: Signal processing and applications

FRM1-1	Pre-Inverse active noise control with auxiliary noise power scheduling
FRM1-2	Noise robust phrase speech recognition for similar words
FRM1-3	Robust Speech Recognition Using Low-pass Processing RSA in the Frequency domain
FRM1-4	Tunable Single-Input Multi-Outputs Biquadratic Digital Filter
FRM1-5	Digital Compensation Filter for Analog Reconstruction Filter Effect in DSP System using Least Square Technique

FRM2: Optimization and Engineering Management

FRM2-1	Accuracy Improvement in Two-Dimensional Coordinate Mapping: A Parallel Robot for Engineering Laboratory
FRM2-2	Application of Firefly Algorithm for Solving Travelling Salesman Problem
FRM2-3	Environmental Analysis of a Hypothetical Online Shopping System in Thailand
FRM2-4	Epidemic Convergence Detection in Decentralized Network Systems towards Industry 4.0
FRM2-5	Parametric Study on Mesh Size Optimization in FEM for Elastic Materials under Tensile Loading Condition
FRM2-6	Performance Investigation of Wire Electrical Discharge Machining for Cobalt Chromium

FRM3: Wireless communication systems II

FRM3-1	Variations of bottom side thickness parameters at the northern and the southern of EIA crests during solar maximum of 24th solar cycle
FRM3-2	Flat Antenna using Wide Aperture with Strips for WLAN Applications
FRM3-3	Planar Antenna with Modified FSS Superstrate and EBG Structure
FRM3-4	Investigated of DOCSIS Measurement Results for Performance Improvement

FRA1: Innovation and business engineering

FRA1-1	Feasibility Analysis of Investment Cost for LED Driver Production in Thailand Industry
FRA1-2	A Study of Opinion Summarization in Underground System Project at Silpakorn University
FRA1-3	Feasibility Analysis of Waste Management at Silpakorn University
FRA1-4	Image Processing Technique for Quality Control in Industrial Production
FRA1-5	Basic calibration for underwater sound recording apparatus

FRA2: Electrical power systems and applications
Session Chair:

FRA2-1	Economic of Solar Photovoltaic for Rural Electrification in Agriculture Area-based in Ratchaburi Province, Thailand
FRA2-2	The Effect of Magnetic field due to Lightning Strokes current for the Electronic devices
FRA2-3	Overvoltage Effects on Mesh-Distributed and Edge-Distributed Rods in Ground Grid Systems of High Voltage Substations