

Wednesday 24th June 2020

Session I					
Session Room	Room 1	Room 2	Room 3	Room 4	Room 5
Session Topic	Artificial Intelligence (I)	SS: Antennas and Microwave Technologies for Modern Wireless Communications (I)	Communication Systems (I)	SS: Advances in the Smart Cities Technologies	Signal Processing (I)
Session Chair	Assoc. Prof. Dr. Wuttipong Kumwilaisak King Mongkut's University of Technology Thonburi	Asst. Prof. Dr.Ekakit Nugoolcharoenlap Rajamangala University of Technology Rattanakosin	Assoc. Prof. Dr. Chanon Warisarn King Mongkut's Institute of Technology Ladkrabang	Asst.Prof.Dr. Mohammad Mahfuz University of Wisconsin-Green Bay	Assoc.Prof. Dr. Theekapong Charoenpong Srinakharinwirot University
09.00-09.20	1570637409 Occupancy Forecasting Using LSTM Neural Network and Transfer Learning	1570632955 Maximized Output Power Design of Switch-Mode Power Amplifier with Thevenin Impedance	1570626274 A Tri-Band Antenna for 2.4 /5 GHz WLAN and Ku-Band Applications	1570636443 On Improving Indoor Navigation Accuracy Using Bluetooth Beacons	1570624899 Adaptive IIR Notch Filter with Variable Step Size Plain Gradient Algorithm Based on Error Correlation Governed by Gradient Accumulation
09.20-09.40	1570631534 Self Adaptive Learning - Great Deluge Based Hyper-heuristics for Solving Cross Optimization Problem Domains	1570637497 A Report on Human Head Exposure to a 2.6 GHz Mid-Band of 5G by Using FDTD Method	1570627617 Wideband Half Mode Substrate Integrated Waveguide (HMSIW) Bandpass Filter	1570637624 Geospatial Cyberinfrastructure for Regional Economic Growth	1570626924 Frequency Estimation Based on WLS-Constrained Adaptive Notch Filter
09.40-10.00	1570637375 On the Numerical Distortion-Mutual Information Function of Image Denoising with Deep Convolutional Networks	1570637522 The Use of a Liquid Level Detection System in Containers Using Radio Frequency Identification Technology	1570627868 Application of Genetic Algorithm in Tri-band U-slot Microstrip Antenna Design	1570636728 Cardiac Diagnosis Classification Using Deep Learning Pipeline on Apache Spark	1570626928 Phase Based Frequency Estimation Algorithm
10.00-10.20	1570630905 Comparison of Image Denoising Using Traditional Filter and Deep Learning Methods	1570639289 A Study of Gain Improvement of a Slot Antenna Using Curved Metallic Holes Structure	1570631129 Review and Open Challenges of Public Safety Networks to Manage Emergency Settings in 5G	1570640024 A Case Study: Phuket City Data Platform	1570631090 RLS-based Interference Cancellation
10.20-10.40	1570636837 Machine Learned Aging-Job Matching	1570639305 Design of a High Gain MSA Using a Thin Wire Metamaterial Structure with a Dielectric Sheet	1570630636 MAC Protocols 802.11: A Comparative Study on Throughput Analysis and Improved LEACH)		1570631635 A Light-Weight Artificial Neural Network for Speech Emotion Recognition Using Average Values of MFCCs and Their Derivatives
10.40-11.00	Break				
Session II					
Session Room	Room 1	Room 2	Room 3	Room 4	Room 5
Session Topic	Artificial Intelligence (II)	SS: Antennas and Microwave Technologies for Modern Wireless Communications + Engineered Mediums/Complex Mediums/Metamaterials(II)	Communication Systems + SS: Advanced Data Storage Technology for Sustainable Future (II)	SS: Data Science (II)	Signal Processing (II)
Session Chair	Asst. Prof. Dr. Teerasit Kasatkasem Kasetsart University	Dr.Nonchanutt Chudpootti King Mongkut's University of Technology North Bangkok	Assoc. Prof. Dr. Chanon Warisarn King Mongkut's Institute of Technology Ladkrabang	Assoc.Prof.Dr. Sartra Wongthanavasu Khon Kaen University	Dr. Sirinapa Jitaree Thailand National Sports University
11.00-11.20	1570639500 On the Use of Attention Map for Land Cover Mapping	1570639349 Increasing the Gain of a Quarter Wave Monopole Antenna with a Vertical Wire Medium Structure	1570631516 Simulation of Triplexer Design for Improving Insertion Loss and Isolation	1570637087 Forex Rates Prediction on EUR/USD with Simple Moving Average Technique and Financial Factors	1570637389 Speech Privacy Protection Based on Controlling Estimated Speech Transmission Index
11.20-11.40	1570639380 Thermal Anomaly Level Algorithm for Active Fire Mapping by Means of Sentinel-2 Data	1570640164 Array Antenna System for Wireless Power Transfer (WPT) System at 6.78 MHz	1570631831 A Design and Implementation of an Emergency Message Beacon System Using APRS Protocol	1570637438 The Clustering of Questions Affect to Tourist's Decision Making for Chatbot Design	1570637392 Minutiae Selection for Fingerprint Data Interoperability and Identification
11.40-12.00	1570637823 Air Quality Assessment Based on Landsat 8 Images Using Supervised Machine Learning Techniques	1570640290 Time-domain GPR Signal Prediction by Using Time-domain UTD Method	1570634843 Modified 2D Viterbi Algorithm Using 2D Modulation Encoding Constraints in BPMR Systems	1570638886 Discover Underlying Topics in Thai News Articles: A Comparative Study of Probabilistic and Matrix Factorization Approaches	1570637413 An Implementation of Digital Parametric Equalizer on STM32 Processor
12.00-12.20	1570621072 The Performance of Crop Yield Forecasting Model Based on Artificial Intelligence	1570630884 Modeling of Color Improvement of Ruby Corundum Gemstone via Oxygen Ion Implantation Treatment	1570634798 Adaptive Designing Process of 2-D GPR Target and Equalizer Based on BER in BPMR Systems	1570638994 Comparing Classifiers for the Prediction of the Stenosis of Coronary Artery	1570637386 Clogged Pipe Detection and Monitoring by Using Acoustic Analysis Methodology
12.20-12.40	1570634280 A Neural Network Based Modeling of Closed Room Thermal Comfort Environmental Prediction for Sensor Hub	1570637636 EIT-Like Effect in Metamaterials Based on Two-Layer Arrays for High-Gain Antennas	1570634813 Track Mis-registration Correction Method in Two-Head Two-Track BPMR Systems	1570639336 Enhancing CNN Based Knowledge Graph Embedding Algorithms Using Auxiliary Vectors: A Case Study of WordNet Knowledge Graph	1570639333 Sentinel-2 Image Dehazing Using Visible and Infrared Band Correlation Based on NDVI Classification
12.40-13.30	Lunch				
13:30-14:00	Opening Ceremony				
14:00-15:00	Keynote Session I				
15:00-15:10	Break				
15:10-16:00	Keynote Session II				

Thursday 25th June 2020

Session I					
Session Room	Room 1	Room 2	Room 3	Room 4	Room 5
Session Topic	Artificial Intelligence (III)	Information Technology (I)	Communication Systems (III)	SS: Data Science (II)	Signal Processing (III)
Session Chair	Asst. Prof. Dr. Ukrit Watchareeruetai King Mongkut's Institute of Technology Ladkrabang	Asst. Prof. Dr.Warin Sookkaneung Rajamangala University of Technology Phra Nakhon	Assist. Prof. Dr. Santi Koonkarnkhai Nakhon Pathom Rajabhat University	Assoc.Prof.Dr. Ekkarat Boonchieng Chiang Mai University	Assoc.Prof.Dr. Pornchai Phukpattaranont Prince of Songkla University
09.00-09.20	1570633096 Effects of Training Difficulties on Reinforcement Learning Based Outdoor Robot Navigation System	1570622661 Development of a Quality Model Based on ISO 25010 Using Fuzzy and PSO for E-commerce Websites	1570635923 Investigation of Comparator Circuit Base-On Voltage Reference on Visible Light Communication System	1570639382 Feedback Analysis in Outcome Base Education Using Machine Learning	1570637453 Progressive Latent Fingerprint Enhancement Using Two-Stage Spectrum Boosting with Matched Filter and Sparse Autoencoder
09.20-09.40	1570636071 Obstacle Avoidance Using mmWave Radar Imaging System	1570628263 Reading Aid Machine for Elderly and Visually Impaired Using Single-Board Computer	1570636716 Comparison of m(3000)I <sup>2</sup> Variation Between Measured Data by Ionosonde and IRI-2016 Model Data over Chiang Mai, Thailand	1570639422 Prediction of Forthcoming Anger of Customer in Call Center Dialogs	1570637499 Face Recognition Based on Multiple Video Cameras
09.40-10.00	1570640191 Comparison of Machine Learning Algorithms on Self-Driving Car Navigation Using Nvidia Jetson Nano	1570630100 Performance Analysis of Trustworthy Online Review System Using Blockchain	1570636841 Study of Closely Spaced Element on Field Correlation for mm-Wave MIMO Antenna Systems	1570640248 Comparison of Spatial Socioeconomic and Health Clustering Population in Chiang Mai Province	1570626861 A Comprehensive Statistical Scrutiny of HDT Dissimilarity for Localizing and Restoring Impulsive Noisy Images
10.00-10.20	1570638762 Self-Parking Car Simulation Using Reinforcement Learning Approach for Moderate Complexity Parking Scenario	1570630965 The Guidelines for Reducing Risk of Social Media Usage for Thai Elderly	1570637101 Review of Internet of Things (IoT): Security Issue and Solution	1570640292 Dengue Fever Detection Using Long Short-term Memory Neural Network	1570638751 Effect of Pre-enhancement on False-Rejection Cases of Fingerprint Verification System
10.20-10.40	1570631557 Solar Customer Detection Based on Power Consumption Patterns	1570640241 A Features Determination of an Augmented Reality Application with Regards to Commercial Perspective		1570640331 On Predicting Survival Opportunities for Prostate Cancer by COX Regression in PSU Patients Data	1570637514 Can We Distinguish Genuine Minutiae from Imposter Minutiae
10.40-11.00				1570642426 Application of Association Rule Mining with Concept-Effect Relationship Model for Learning Diagnosis	
Break					
Session II					
Session Room	Room 1	Room 2	Room 3	Room 4	Room 5
Session Topic	Artificial Intelligence (IV)	Information Technology (II)	Communication Systems (IV)	Computers (I)	Photonics
Session Chair	Assoc. Prof. Dr. Worapan Kusakunniran Mahidol University	Dr. Noppon Letchuwongsa Prince of Songkla University	Prof. Dr. Piya Kovintavevat Nakhon Pathom Rajabhat University	Prof. Dr. Prabhas Chongsatitwattana Chulalongkorn University	Asst.Prof.Dr. Kidsanapong Puntstri Rajamangala University of Technology Isan

11:00 - 11:20	1570616908	Detection of Animal Behind Cages Using Convolutional Neural Network	1570632402	Stylometry as a Reliable Method forFallback Authentication	1570637103	A MAC Protocol for Energy Efficient Wireless Communication Leveraging Wake-Up Estimations on Sender Data	1570639377	Adder Circuit on IBM Universal Quantum Computers	1570631570	Development of UV-enhanced Photocatalytic Microchannel Optical Waveguide for Water Treatment			
11:20 - 11:40	1570639150	Plant Leaf Disease Identification by Deep Convolutional Autoencoder as a Feature Extraction Approach	1570636039	Applying Neuro Fuzzy System to Analyze Durian Minerals Within Soil for Precision Agriculture	1570637179	Design of Unbalance Slot Printed Dipole Antenna with Triangle Parasitic Element for DTV Receiver	1570637342	A Parallel Triple-Pivot Sorting (PTPSort) Algorithm: Preliminary Results	1570633121	Simulation of Optimal Photonic Nanopillar Design for Solid-State Quantum Emitter in Diamond			
11:40 - 12:00	1570640237	Automatic Detection and Characterization of Parasite Eggs Using Deep Learning Methods	1570637075	GPS Data Enrichment for Detecting Driver's Real-time Behaviour in Myanmar	1570637366	PAPR Reduction in FBMC-OQAM Systems Using Trellis-based D-SLM with ABC Algorithm	1570631009	Fitness Activity Acquisition and Communication Interface for Running Treadmill	1570640333	Infrared Normalized Difference Vegetation Index for Sentinel-2A Imagery			
12:00 - 12:20	1570636459	Statistical Approach for Text and Non-text Classifier in Off-line Handwritten Document	1570637239	A Pattern-Based Formal Modelling Framework for Wireless Sensor Networks	1570637430	Influence Analysis of Network Density on White-Hat Worm and Basic Strategy for Botnet Defense System	1570636836	Smart Farming Using Internet of thing (IoT) in Agriculture by Tangible Programming for Children					
12:20 - 12:40	1570637459	Washroom Sign Detection Using Convolutional Neural Network in Natural Scene Images	1570640276	Extraction of Trend Keywords from Thai Twitters Using N-Gram Word Combination									
12:40-13:00	<b>Lunch</b>												
<b>Session III</b>													
Session Room	Room 1			Room 2			Room 3			Room 4		Room 5	
Session Topic	Artificial Intelligence (V)			Information Technology (III)			Communication Systems (V)			Devices, Circuit and Systems (I)		SS: Control System Design and Applications	
Session Chair	Asst. Prof. Dr. Yodyium Tipsuwan Kasetsart University			Dr. Pornpat Sirithumgul Rajamangala University of Technology Phra Nakhon			Asst. Prof. Dr. Lin M. M. Myint King Mongkut's Institute of Technology Ladkrabang			Assoc. Prof. Dr. Montree Siriruchyanun King Mongkut's University of Technology North Bangkok		Asst. Prof. Dr. Sudchai Boonto King Mongkut's University of Technology Thonburi	
13:00-13:20	1570639425	Empowered PG in Forex Trading	1570637252	Packet-in Messages Handling Scheme to Reduce Controller Bottlenecks in OpenFlow Networks	1570637753	A Simple Tunable Biquadratic Digital Bandpass Filter Design for Spectrum Sensing in Cognitive Radio	1570630531	Flexible FPGA Based Digital IC Test Development Education Laboratory Design and Application	1570637091	New Study on a Necessary and Sufficient State-Feedback Stabilization Condition for Singular Discrete-Time System			
13:20-13:40	1570637063	An Evaluation of Risk Adjusted Measurements for Thai Mutual Funds	1570637295	Detection of Drowsiness from Facial Images in Real-Time Video Media Using Nvidia Jetson Nano	1570636715	Comparison of foE Between Observed Data and IRI-2016 Model Predictions at Conjugate Points over Southeast Asia Region	1570631122	Impact of Trapezoidal Channel in Double Gate Tunnel Field Effect Transistor on Ambipolar Conduction for Ultra Low Power Application	1570637311	H <sup>∞</sup> Admissibility of Singular Stochastic Systems with Markovian Switching and Partly Unknown Transition Rates			
13:40-14:00	1570637071	Portfolio Management in Different Market Trends for Thai Mutual Funds	1570637300	Machine-Learning Based DDOS Attack Classifier in Software Defined Network	1570639497	Improved Isolation of a Dual-Band MIMO Antenna Using Modified S-SRRs for Millimeter-Wave Applications	1570631259	Design and Analysis of Frequency Reconfigurable Equilateral Triangular Microstrip Patch Antenna	1570639300	Convolutional Neural Networks for Predicting Energy Efficiency of Air Conditioning Systems			
14:00-14:20	1570637416	Neural Network for Forecasting High Price and Low Price on Foreign Exchange Market	1570637304	Development of the Voting System for Game Show Program Using Blockchain Technology	1570637492	Simulation Based on Wave Iterative Algorithm for CSRR Metamaterial Transmission Line Analysis	1570631803	Improved Design Procedure for Two-Stage CMOS Op Amp Employing Current Buffer	1570639401	Deep Deterministic Policy Gradient for Magnetic Levitation Control			
14:20-14:40	1570640268	Blockchain and Smart Contract Payment for Electric Vehicle Charging	1570637312	Anomaly Detection in SDN's Control Plane Using Combining Entropy with SVM	1570639153	A Wideband Circularly Polarized Stacked Patch Antenna with Truncated Corners Ground Plane for Universal UHF RFID Reader	1570634166	Single Input Multiple Output Voltage Mode Universal Filters with Electronic Controllability Using Commercially Available IC	1570640177	Combined Step-Size Robust Mixed-norm Adaptive Filter Algorithm			
14:40-15:00	<b>Break</b>												
<b>Session IV</b>													
Session Room	Room 1			Room 2			Room 3			Room 4		Room 5	
Session Topic	Computers (II)			Information Technology (IV)			Biomedical Engineering and Bio Science (I)			Devices, Circuit and Systems (II)		Controls, Instrumentation and Measurements (I)	
Session Chair	Dr.Nattapong Tongtep Prince of Songkla University			Dr.Veeraporn Siddoo Prince of Songkla University			Assoc.Prof.Dr. Yodchanan Wongsawat Mahidol University			Prof. Dr. Worapong Tangsrirat King Mongkut's Institute of Technology Ladkrabang		Dr. Tanagorn Jennawasin King Mongkut's University of Technology Thonburi	
15:00-15:20	1570624912	Statistical Analysis with Prediction Models of User Satisfaction in Software Project Factors	1570637334	Real-Time Eye State Detection System for Driver Drowsiness Using Convolutional Neural Network	1570625782	Clinical Validation of the Saadat NIBP Module According to the BS EN ISO 81060-2 Protocol	1570636306	General Expressions for Performance Evaluation of Binary Adders	1570637460	Speed Semi-Sensorless Vector Control of Parallel Connected Induction Motor			
15:20-15:40	1570637493	Automatic Team Recommendation for Collaborative Software Development: A Case Study of Moodle	1570637420	SGD-Rec: A Matrix Decomposition Based Model for Personalized Movie Recommendation	1570631535	A Comparison of Cuff-less Blood Pressure Estimation Between Pulse Arrival Time and Pulse Transit Time Using Photoplethysmography	1570636466	Dual-Output CMOS Voltage Squarer Circuit	1570638265	Optimal PI/lambdaD/mu Controller Design for Rotary Inverted Pendulum System via Cuckoo Search Algorithm			
15:40-16:00	1570636809	Improving Student Academic Performance Prediction Models Using Feature Selection	1570637447	Indoor Localization Using Wi-Fi RSSI Based by Weighting Factors and Detection Probabilities of Access Point in Real Environment Testing Area	1570632024	Distributed Denial of Service Cyberbioattack Affecting Bacteria-based Biosensing Systems	1570637391	Smart Glasses for Sign Reading as Mobility Aids for the Blind Using a Light Communication System	1570638267	Fractional Order Model Identification for Pressure Process Control System by Cuckoo Search Algorithm			
16:00-16:20	1570639583	Supervised Classification of Board Games for Active Learning to Enhance Business Knowledge and Skills	1570637494	GlaucoVIZ: Assisting System for Early Glaucoma Detection Using Mask R-CNN	1570636467	Time-Domain Analysis of Wireless Telemetry for Liver-Implanted Medical Monitoring Applications	1570637472	High Quality-Factor Shadow Bandpass Filters with Orthogonality to the Characteristic Frequency	1570639394	Simple Spectrometer for Education Using Microcontroller			
16:20-16:40			1570637510	A Development of Knee Support for Vastus Medialis Oblique Muscles in Thai Patients	1570636695	Modelling the Concentration Changes of 18F-FDOPA Using Compartmental Model in Parkinson Patients	1570637752	Realization of Tunable Fractional-order Device Based on Ladder Network Approximation	1570639952	Study of Three Phase VSC Models for Controller Design by Using Port-Controlled Hamiltonian			
16:40-17:00			1570638824	BlueCompass: A Case Study of an In-Building Hospital Information and Navigation System	1570637093	Development of LIDAR Based Gait Training System with Gait Assessment							
<b>Friday 26th June 2020</b>													
<b>Session I</b>													
Session Room	Room 1			Room 2			Room 3			Room 4		Room 5	
Session Topic	Information Technology (V)			Electrical Power Systems (I) + SS: Advance Technology in Power System			Biomedical Engineering and Bio Science (II)			Devices, Circuit and Systems (III)		Controls, Instrumentation and Measurements (II)	
Session Chair	Asst. Prof. Dr. Sanya Khunkhao Rajamangala University of Technology Phra Nakhon			Assoc. Prof. Dr. Nattachote Rugthaicharoencheep Rajamangala University of Technology Phra Nakhon			Assoc.Prof.Dr. Yodchanan Wongsawat Mahidol University			Assoc. Prof. Dr. Pipat Prommee King Mongkut's Institute of Technology Ladkrabang		Prof. Dr. David Banjerdpongchai Chulalongkorn University	
09:00-09:20	1570639009	Comparative Study of RSS-based Indoor Positioning Techniques on Two Different Wi-Fi Frequency Bands	1570625722	Effective Selection Method of System Stabilization Control Function Mounted on Smart Inverter	1570637187	Mathematical Modeling of Triple Negative Breast Cancer with Doxorubicin	1570639004	A Meminductor Emulator Based on Flux-controlled Model Using Field Programmable Analog Array	1570629728	Performance and Behavior Analysis of Single-Electrode Triboelectric Nanogenerator for Energy Harvesting Floor Tiles			
09:20-09:40	1570639014	Hybrid Time Synchronization for ZigBee Networks: An Empirical Approach	1570630401	The Analytical of Penetration Distance Due to the Lightning Flash for the Photovoltaic Module	1570637384	Computational Modeling of Tumor Response to Anti-Angiogenesis	1570639321	Design of High Input Impedance Voltage-mode Multifunction Biquad Filter with Independent Control of Natural Frequency and Quality Factor	1570631061	A Comparative Study on the Electrical Characteristics of Piezoelectric and Triboelectric Nanogenerators for Energy Harvesting Floor Tiles			
09:40-10:00	1570639194	A Development of Inpatient Monitoring System: A Case Study of Patong Hospital, Phuket, Thailand	1570631022	Control and Simulation of Hybrid VSC-HVDC Transmission Systems for Offshore Wind Farm Applications	1570637458	Automate Pre-Screening System of Posterior Capsular Opacification (PCO)	1570639947	Development of FPAA Based Switching PD Controller	1570631429	Application of Parallel Flower Pollination Algorithm to Fractional-Order Model Identification of BLDC Motor			
10:00-10:20	1570639198	A Comparative Study of Library Information Storage System Through Blockchain Technology: A Case Study of Undergraduate Researches	1570640385	Dielectric Loss Factor Measurement in a Gas-Insulated Transmission Line by Using Very Low Frequency Test	1570637632	Alzheimer Screening Using Drawing Test Scores	1570640140	Safety Solution for Women Using Smart Band and CWS App	1570635968	Applying Semi-Global Matching Technique on Rectified Stereo Image for Cloud Base Height Estimation			
10:20-10:40	1570640284	Sentiment Classification on Thai Social Media Using a Domain-Specific Trained Lexicon	1570640559	Novel Battery Charging Method Using Hydrogen and Oxygen Gas Release Condition for Lead Acid Battery			1570638870	An Independently/Electronically Controllable Schmitt Trigger Using Only Single VDGA	1570639297	An Enhanced Measurement Circuit for Piezoresistive Pressure Sensor Array			
10:40-11:00	<b>Break</b>												
<b>Session II</b>													
Session Room	Room 1			Room 2			Room 3			Room 4		Room 5	
Session Topic	Information Technology (VI)			Electrical Power Systems (II)			Biomedical Engineering and Bio Science (III)			Devices, Circuit and Systems (IV)		Power Electronics	

Session Chair	Dr.Jirawat Thaenthong Prince of Songkla University		Dr.Jirawadee Polprasert Naresuan University		Asst.Prof.Dr. Yuttapong Jiraksopakun King Mongkut's Institute of Technology Thonburi		Assoc. Prof. Dr. Krit Angkeaw King Mongkut's University of Technology North Bangkok		Assoc.Prof.Dr. Uthen Kamnam Rajamangala University of Technology Lanna	
11:00 - 11:20	1570639281	Data Clustering Based on Differential Evolution with Modified Mutation Strategy	1570636270	A k-Factor Continuous Double Auction-Based Pricing Mechanism for the P2P Energy Trading in a LV Distribution System	1570637535	Stroke Rehabilitation Based on Intelligence Interaction System	1570640262	Smart System Integration of Question Paper Security System	1570637215	Model Predictive Control of 3x5 and 5x3 Bidirectional Matrix Converter
11:20 - 11:40	1570639325	Applying Weighted Finite State Transducers and Ripple down Rules for Myanmar Name Romanization	1570637344	Optimal Renewable Energy Integration Considering Minimum Dispatchable Generation Operating Costs	1570639771	Using High Boost Bi-cubic Interpolation to Upscale and Enhance the Medical Image Details	1570640271	Design and Implement of a Weather Monitoring Station Using CoAP Protocol on NB-IoT Network	1570637396	Wind Turbine Simulator Equipped with Real-Time Monitoring and User-Friendly Parameter Setup Controlled by C2000 Microcontroller
11:40 - 12:00	1570639389	A Scalable Service Architecture with Request Queuing for Resource-Intensive Tasks	1570637348	Optimal Sizing of Utility-scaled Battery with Consideration of Battery Installation Cost and System Power Generation Cost	1570640027	Do-It-Yourself CO2 Incubator with Adjustable Static Magnetic Field for Biological Research Laboratories	1570640361	Floating Impedance Simulator Realization	1570637401	Three-Phase Induction Motor Drive System with Function of Harmonic Current Injection for Non-Linear Load
12:00 - 12:20	1570639607	Discovering of Person Named Prefix Pattern in Thai Researcher Corpus and Its Application	1570637412	Lifetime Estimation of Switching Devices Using Weibull Distribution Analysis	1570640110	Improvement of Motor Imagery BCI Using Silent Speech	1570640365	Compact Dual-Mode SITO Universal Filter and Quadrature Oscillator with Only Single VDGA	1570637598	ElectricVehicle Simulator Using DC Drives
12:20 - 12:40	1570640322	QoX Based ETL Design for Business Intelligence System of Lecturers' Qualifications Analysis	1570635696	Condition Assessment of Medium Voltage Underground Cable Systems					1570637691	PWM Techniques for a 13-Level Asymmetrical Dual Inverter Configuration Without the Overcharging of Floating Capacitor
12:40-13:00									1570640076	A Study of Radiated EMI Predictions from Measured Common-mode Currents for Switching Power Supplies
Lunch										
Session III										
Session Room	Room 1			Room 2						
Session Topic	Information Technology (VII)			Electrical Power Systems (III)						
Session Chair	Dr.Suvil Chomchalya King Mongkut's Institute of Technology Thonburi			Assoc. Prof. Dr. Boonyang Plangklang Rajamangala University of Technology Thanyaburi						
13:00-13:20	1570639684	Towards Performance Optimization for Hadoop MapReduce Applications	1570637523	A Case Study on Flywheel Energy Storage System Application for Frequency Regulation of Islanded Amphoe Mueang Mae Hong Son Microgrid						
13:20-13:40	1570639757	The Cognitive Mobile Design Guidelines for elderly:A Preliminary Study	1570637526	Electric Field Analysis of the 230 kV AC Transmission Line System for an Limited Area						
13:40-14:00	1570639861	Data Analysis and Visualization Technique for Exploring of Factor Associated with the Incidence of Complication in Pregnancy and Newborn	1570639204	Optimal Design in Distribution Substation's Grounding System for Decreasing Touch Voltage						
14:00-14:20	1570640167	Fair Exchange Protocol in Electronic Transactions Revisited	1570639588	Development of Energy Efficiency Standard and Regulation for Electric Motors in Thailand						
14:20-14:40	1570640215	One Stop Service Food Court Application	1570640270	Liftoff of Submillimeter Conducting Particles Under DC Electric Field						

