

7 th March 2018 (Wednesday), Day 1						
15:00	Session Title: Advanced Technology in Power System 1 Session Chairs: Prof. Channarong Bamngkol, Chulalongkorn Univ., Thailand Room: Luang Krabi Time: 15:00-17:00 ID256 Condition Assessment in Transmission Line Asset for Maintenance Management ID481 A Study on Control Scheme of Low Frequency AC Transmission in Wind Generation System -Seminar Group- -Seminar Group- -Seminar Group-	Session Title: Digital Signal Processing 1 Session Chairs: xxx Room: Ko Klang Time: 15:00-17:00 ID232 Visual Odometry based on K-Nearest Neighbor Matching and Robust Motion Estimation ID291 Pattern Recognition for Identification of Gender of Individuals from Ground Reaction Force Parameters ID291 A Method of Thai Main Dish and Soup Classification by Gray Level Co-occurrence Matrix Algorithm ID347 Hand Movement Recognition by Using a Touchless Sensor for Controlling Images in Operating Room ID406 Human Height Measurement by Square Template ID407 A Method of Swimming Rat Detection in Morris Water Maze by Using Image Processing	Session Title: Power & Energy 1 Session Chairs: xxx Room: Kanabnam Time: 15:00-17:00 ID275 Model Predictive Control Application for the Control of a Grid-Connected Synchronous Generator ID399 A Fast Battery Cycle Counting Method for Grid-Tied Battery Energy Storage System Subjected to Microgrids ID400 Bi-Directional Power Control of Grid-Tied Battery Energy Storage System Operating in Frequency Regulation ID410 Grid Integration Control Algorithm for SPV Based Power-Link System ID435 PI Controller Based on Direct Synthesis Method for DC-Link Voltage Control of Active Power Filter ID437 Parameters Identification for Series Resonance in Power Systems Using a Frequency Response Technique	Session Title: Communications 1 Session Chairs: xxx Room: Phnom Time: 15:00-17:00 ID263 Elimination of Multi-bounce Effect for Outdoor RCS Measurement via 3D Imaging ID328 Analysis of Bottomside Thickness Parameter-Based TEC at Equatorial and Low Latitude Stations for Global Navigation Satellite Systems ID346 Thai Minspeak* System for Facilitating Communications Involving People with Communication Disabilities ID365 Development and Implementation of a Software Defined Radio Ground Station Prototype for Small Satellites ID422 A Development of Microwave Oven for Eradicating Eggs of Red Flour Beetles	Session Title: Electronics & Control 1 Session Chairs: xxx Room: Bencha Time: 08:30-10:30 ID201 Pulse-Frequency Modulation Signal Generation for Programmable Logic using Python and VHDL ID218 Stabilized and Rotating Mechanism of 2D Laser Scanner for 3D Point Cloud Reconstruction ID240 A Voltage Mode, Fully Differential Implementation of Mihalas-Niebur Neuron with Biological Timescale Spiking Patterns ID262 Portable Industrial Standard Mixed-Signal Transmitter for Laboratory ID265 Battery Monitoring System for DC Distribution in a Substation using Travelling Wave ID341 Comparison between Integrated Circuit and Transistor Pulse Generators for Functional Electrical Stimulation	
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8 th March 2018 (Thursday), Day 2						
08:30	Session Title: Advanced Technology in Power System 2 Session Chairs: Prof. Thanapong Suwanari, King Mongkut's Univ. of Tech. North Bangkok, Thailand Room: Luang Krabi Time: 08:30-10:30 ID239 Comparative Testing of Breakdown Voltage versus Polarization Current of 0.1kV XLPE Cables with Different Defects ID260 The Realistic Approximation on Equivalent Attractive Radius of Lightning Strikes ID492 Effect of NaCl Solution and Temperatures on Water Treating Propagation in XLPE Underground Cable for Medium Voltage -Seminar Group- -Seminar Group- -Seminar Group-	Session Title: Communications 2 Session Chairs: xxx Room: Ko Klang Time: 08:30-10:30 ID289 A Modified Super-Wideband Planar Elliptical Monopole Antenna ID298 Body Implantable Patch Antenna for Biotelemetry System ID304 A Dual-band Microstrip Fed Quasi-Yagi Antenna ID351 Four-Elements Post Shape Array Antenna for MIMO System ID354 Double-Fed Rectangular Microstrip Patch Antenna for WLAN Applications ID357 Bi-directional Antenna using a Probe-Fed Waveguide Aperture with Stacked-Coupling Apertures	Session Title: Power & Energy 2 Session Chairs: xxx Room: Kanabnam Time: 08:30-10:30 ID235 Evaluation Yield Efficiency of Photovoltaic Cells from Total Harmonic Distortion Current from Electrical Load in Households ID244 A Study on Thermoelectric Power Generator by Solar Energy Using Fresnel Lens ID251 Optimised Solar Power Fed Induction Motor Drive for Water Pumping Application ID315 Comparison of PBD function with Power Controller and Voltage Controller for Photovoltaic Plant ID319 The Stability Analysis of DC Micro-Grid System with PV Array ID329 Modeling of Grid Integrated Solar Photovoltaic System Using Typhoon HIL	Session Title: Power & Energy 3 Session Chairs: xxx Room: Phnom Time: 08:30-10:30 ID214 A Non-Isolated Double-Input High Voltage GaN DC-DC Converter with Reduced Normalized Voltage Stress ID215 A Novel Three-Phase Interleaved Boost DC-DC Converter with SPM Control Method ID226 Design and Development of 10kW Battery Pack Tester Module ID233 Simulation of a Miniature SEPIC Converter With PI Controller for Thermoelectric Generator Module ID252 A Highly Efficient PV and Fuel Cell Powered Full Bridge Bidirectional LLC Resonant Converter	Session Title: Electronics & Control 1 Session Chairs: xxx Room: Bencha Time: 08:30-10:30 ID201 Pulse-Frequency Modulation Signal Generation for Programmable Logic using Python and VHDL ID218 Stabilized and Rotating Mechanism of 2D Laser Scanner for 3D Point Cloud Reconstruction ID240 A Voltage Mode, Fully Differential Implementation of Mihalas-Niebur Neuron with Biological Timescale Spiking Patterns ID262 Portable Industrial Standard Mixed-Signal Transmitter for Laboratory ID265 Battery Monitoring System for DC Distribution in a Substation using Travelling Wave ID341 Comparison between Integrated Circuit and Transistor Pulse Generators for Functional Electrical Stimulation	
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10:30	Session Title: Advanced Technology in Power System 3 Session Chairs: Prof. Komsan Hongseombul, Kasetsart Univ., Thailand Room: Luang Krabi Time: 10:30-15:20 ID310 An Improved Method for Controller Design based on Synchronophasor Measured Data of Interconnected Power System ID327 A Comparative Study on Constraint Handling for Solving Economic Dispatch by Evolutionary Algorithms ID479 Comparison of Voltage Distortion Impacts from High-Speed Railway Systems connected to Electrical Grid under Different Special Transformers Conditions Assessment of a Gas Insulated Substation -Seminar Group- -Seminar Group- -Seminar Group-	Session Title: Communications 3 Session Chairs: xxx Room: Ko Klang Time: 10:30-15:20 ID442 Compensation of Mutual Coupling for Two Dipole Transmitting Antenna Array ID445 Optimal Synthesis of Linear Antenna Array with Wide Null Symmetry using Novel Particle Swarm Optimization Technique ID446 Side-Lobe Level Reduction of Concentric Array Antennas using Crayfish Based Particle Swarm Optimization Technique ID448 Thinned Concentric Circular Array Antenna Synthesis Using Seeker Optimization Algorithm ID480 Low Cost Multiband Switched Beam Antenna for 5G Applications ID486 Design of Wide-band Dipole Antenna for Digital TV Broadcasting Application	Session Title: Power & Energy 4 Session Chairs: xxx Room: Kanabnam Time: 10:30-15:20 ID321 One-Head Ahead Prediction of Solar Irradiance Using Support Vector Machines ID333 A Novel Disconnecter Device for Unlocking MC-4 Connector Type ID337 Comparison of Performance of IDSP with 2 Input and 1 Input Model in Forecasting of Power Output for Photovoltaic Systems ID348 Forecast of Probabilistic Economic Dispatch in Presence of Solar Power Optimization Algorithm ID388 Performance of Temperature Model in Forecasting the Power Output for Photovoltaic System	Session Title: Power & Energy 5 Session Chairs: xxx Room: Phnom Time: 10:30-15:20 ID227 Development of NPC H-Bridge Inverter for High Power Application ID250 Improved Boost Ability of Extended Boost Active Switched-Capacitor/ Switched-Inductor Quasi-Z-Source Inverters ID355 Optimal Fuzzy-Sequence Selection for Five-Leg Inverter Based on Two-Phase SVPWM Fed Dual Two-Phase Induction Motors ID379 A New Control Approach of Grid Interfaced Five Level Cascaded Multilevel Inverter ID398 Performance Evaluation of Cascaded H-Bridge Inverter as Active Line Conditioner ID489 Elimination of Common-Mode Voltage in Dual Two-Level Voltage Source Inverter Fed Open-End Load Using a Discontinuous SVM Technique	Session Title: Electronics & Control 2 Session Chairs: xxx Room: Bencha Time: 10:30-15:20 ID213 Electroluminescence of GaSb/GaAs Quantum Dots ID223 Performance Evaluation of Submicron SiC MESFET ID224 Design of Low-Power CMOS Limiting Amplifier with RSSI Integrated Circuit for Low-Frequency Wake-up Receivers ID286 The Effect of Gamma Irradiation on Threshold Voltage and Channel Mobility Degradation of NMOS ID299 CMOS Current Feedback Operational Amplifier with Improved CCM & Fast Speed Buffer ID413 Low-Voltage Low-Power Sub-Threshold CMOS Four-Quadrant Analogue Multiplier	
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15:15	Session Title: Advanced Technology in Power System 4 Session Chairs: Prof. Sanchai Dechaumpapthra, Kasetsart Univ., Thailand Room: Luang Krabi Time: 15:15-17:35 ID482 Synchronophasor based Coordinated Fuzzy PEVs Charging Controllers Design for Stabilizing Tie-Line Power Oscillation in Interconnected Smart Grids ID483 Estimation of Electrochemical Mode based on Synchronophasor Data ID491 Asset Management of Underground Cable System for Industrial Estate in Thailand -Seminar Group- -Seminar Group- -Seminar Group-	Session Title: Communications 4 Session Chairs: xxx Room: Ko Klang Time: 15:25-17:35 ID243 IEEE1888 Bluetooth® – Wi-Fi Gateway for BLE Sensor Network ID296 Wire Medium Structure for Gain Enhancement of Conical Horn Antenna ID383 Simulink Model for Realtime Optical Access Network Monitoring using FBG Combination ID447 Indoor Wireless Sensor Network Localization Using RSSI Based Weighting Algorithm Method for Short Range Wireless Communication ID487 Secrecy Downlink Multi-User MISO Networks	Session Title: Power & Energy 6 Session Chairs: xxx Room: Kanabnam Time: 15:25-17:35 ID225 Electric Potential Assessment due to Lightning Strike into the Overhead Ground Wire in Power Distribution System ID228 Study of Plug-in Electric Vehicles Charging by Using Load Shaving Method Based on TOU in Distribution System, Case Study in Thailand Country ID230 Design and Testing of Low Loss Distribution Transformer for Non-linear Loading Current ID269 Short-Term Demand Forecasting by Using ANN Algorithms ID301 Short-Term Price Forecasting by Using ANN Algorithms ID414 A Novel Multi-objective PMU Placement Method for Power System State Estimation	Session Title: Power & Energy 5 Session Chairs: xxx Room: Phnom Time: 15:25-17:35 ID294 Single-Phase Transformerless Grid-Connected Three-Switch Three-Stage Impedance Source Inverter ID295 PEM Fuel Cell Emulator using Mathematical Dynamic Model and Relative Humidity Calculation ID412 Optimal Sizing and Location of the Charging Station for Plug-in Electric Vehicles Using the Particle Swarm Optimization Technique ID440 A Novel Carrier Based PWM Technique with Common-mode Voltage Reduction for Rotor Side Converter in Doubly-Fed Induction Generator ID462 The Series Connected Bidirectional Resonant Converter for Energy Storage Applications	Session Title: Electronics & Control 3 Session Chairs: xxx Room: Bencha Time: 15:25-17:35 ID266 An Application of Lean Automation a Case Study of Thailand's Control Cable Manufacturing ID279 Measured and Extraction of Coupling Capacitive of Metal Interconnect Layers in VLSI ID290 Deployment of Ad Hoc Network Nodes using UAVs for Search and Rescue Missions ID316 Horizontal Magnetic Field MAGFET by Conventional MOSFET Structure ID320 A Design for a Programmable Swept Frequency Module for Eddy Current Testing ID378 Defense System Modeling	
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9 th March 2018 (Friday), Day 3						
08:30	Session Title: Computer & IT 1 Session Chairs: xxx Room: Luang Krabi Time: 08:30-10:30 ID257 Slotted Np-CSMA with Poisson-based Packet Size using Semi-Markov Process ID303 Wireless Network Data Collection System for Wireless Network Quality Enhancement ID313 Incremental Clustering Approach for Evolving Trajectory Data Stream ID318 The QoS Analysis of the 3G Mobile Signals for Telemedicine Support in Thailand's Rural Areas ID361 Parallel DDPG-Scout: Data Parallelism ID402 Evaluation of Pure Gravitational Search Algorithm for Wireless Sensor Networks Coverage Maximization	Session Title: Plasma Technology and its Applications 1 Session Chairs: xxx Room: Ko Klang Time: 08:30-10:30 ID268 Experimental Investigation of Electrical Discharge Plasma in Air Microbubbles Water Mixture ID411 Study on the Breakdown of Cell Membrane and Vacuolar Membrane by Electric Pulses ID416 An Investigation of Plasma Activated Water Generated by 50 Hz Half Wave AC High Voltage ID421 Atmospheric Argon Plasma Jet for Post-treatment of Biorelated Landfill Leachate ID427 Surface Modifications in Pulsed Microcorona Streamer Plasma ID460 UV Absorption Spectroscopy Analysis on Water Irradiated to Atmospheric Pressure Plasma Jet	Session Title: Power & Energy 7 Session Chairs: xxx Room: Kanabnam Time: 08:30-10:30 ID234 Load Allocation in Transmission System by Using Phase Shifting Transformer ID306 Short-Term Electricity Demand Forecasting with Seasonal and Interactions of Variables for Thailand ID335 Optimization Techniques in Modern Times & Their Applications ID375 CDO - A New Metaheuristic Algorithm Towards the Solution of Transient Stability Constrained Optimal Power Flow ID463 Target Setting of Power System Reliability Indices with Consideration of Maintenance Cost and Relevant Factors ID484 Technical and Financial Assessment of Iligan City Hall Distribution System State Estimation	Session Title: Power & Energy 8 Session Chairs: xxx Room: Phnom Time: 08:30-10:30 ID245 Comparison between Different Modelling Methods to Study the Dynamical Behaviour of Line Start Permanent Magnet Synchronous Motors ID280 Fractional SVM for Speed Control of PMSM ID283 Fictitious Flux and A Globally Stable Observer for Sensorless Control of Synchronous Reluctance Motors ID315 Tuning of Power System Stabilizers in Multi-machine Power Systems using Multi Flame Optimization ID391 Establishment of a Pico Hydro Power Plant using Permanent Magnet Synchronous Generator Supplied for AC Microgrid ID454 Optimization for Wind Turbine with Permanent Magnet Synchronous Generator (PMSG) using Optimal Control Design	Session Title: Electronics & Control 4 Session Chairs: xxx Room: Bencha Time: 08:30-10:30 ID216 Fuzzy-PID Control in Embedded System for Pressure Feedback in Electro-Hydraulic System ID220 Fuzzy-Based Optimal PID Controller Design for AVR System ID222 Programmable Gain And Bandwidth Op-Amp Using Controllable Input Stage Tail Current ID255 Application of Bat-Inspired Algorithm to Optimal PIDA Controller Design for Liquid-Level System ID340 An Open-Circuit Switch Fault Detection Strategy for a Three-Stage Cascaded Boost Converter ID420 Design of Decentralized PID Controller with Coefficient Diagram Method based on Inverted Decoupling for TITO System	Session Title: Informative Technology Applications in Health 1 Session Chairs: xxx Room: Thara Time: 08:30-10:30 ID246 Design and Development of Data Model for Stroke FAST Track System ID247 The Smart Health Care Application for Overweight Children based on the Health Care Children Guideline ID334 A Comparison between Correlation and Grey Relational for Big Data Analytics ID343 Spatial Mapping of Influenza Infection by Bayesian Approach ID349 Design of the Electronic Consultation System : Rama Health Electronic Consulting ID352 Promoting the New Role of Nursing Informatics Professional in Thailand
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10:30	Session Title: Computer & IT 2 Session Chairs: xxx Room: Luang Krabi Time: 10:45-12:25 ID205 Uncertain Defuzzified Value of Periodic Membership Function ID270 Humanoind Navigation: An Intelligent Computer Vision based Approach ID368 Two-step Prediction Technique for Dengue Outbreak in Thailand ID382 Investigation of Various Manipulated Music Tempo for Reducing Negative Emotion using Beta EEG Index ID409 Human Computer Interaction and Usability Engineering of Thai Word Search Keyboard Application for Students with Learning Disabilities	Session Title: Digital Signal Processing 2 Session Chairs: xxx Room: Ko Klang Time: 10:45-12:25 ID210 Detecting Bilateral Symmetry in Single Object Image Through Slope ID300 Fast Adaptive Algorithm for Sinusoidal Interference Cancellation ID309 2 Level Simplified Fuzzy ARTMAP for Grape Leaf Disease system using Color Imagery and Gray-level Co-Occurrence Matrix ID408 A Singular Spectrum Analysis Preceded Deep Learning Architecture for Forecasting Currency Time Series ID452 Changes in Pulse Transit Time during Psychological Stress Test	Session Title: Power & Energy 9 Session Chairs: xxx Room: Kanabnam Time: 10:45-12:25 ID302 A Review on Different Methods of Wind Power Forecasting ID312 Short-Term Wind Speed Forecasting of Lelystad Wind Farm by using ANN Algorithms ID344 Short-Term thermal-wind Scheduling using Salp Swarm Algorithm ID393 One Hour-Ahead Wind Speed Forecasting of Sotavento Galicia SA Wind Farm by using ANN	Session Title: Power & Energy 8 Session Chairs: xxx Room: Phnom Time: 10:45-12:25 ID445 Image Centric Anti-Tampering Technique for AMI Smart Metering ID472 Optimal Hybrid Renewable Generator for Techno-Economic Benefits in Smart Distribution Network ID473 Intelligent Algorithm for Optimal Load Management in Smart Home Appliance Scheduling in Distribution System ID475 Hybrid Energy Storage System in Standalone DC Microgrid with Ramp Rate Limitation for Extending the Lifespan of Battery ID476 Optimal Fast Charging Station Location for Public Electric Transportation in Smart Power Distribution Network	Session Title: Electronics & Control 4 Session Chairs: xxx Room: Bencha Time: 10:45-12:25 ID282 Wind Speed Measurement based on Kalman Filter using Phase Detector of Ultrasonic Sensor ID285 A Soft Sensor for Prediction of Temperature Rises on a Ball Screw Shaft Using Extreme Learning Machine ID307 A Study of Relationship between Sensor Response and Odor Perception in Human ID330 Application of Short Time Fourier Transform in Ultrasonic Velocity Profiler on Bubble Flow ID332 Modified Current Feedback vs Voltage Feedback Signals Distortion Effect	
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