

ECTI-CON 2017 Final Program

Tuesday, June 27, 2017

Time: 13:00-15:20

Room : Session		Dalah 1 : Power Electronics (I)
Session Chair		Worapong Pairindra : <i>Valaya Alongkorn Rajabhat University</i>
Time	PID	Paper Title / Author
13:00-13:20	1052	The Plug and Outlet for Home Appliances in DC Low Voltage Micro-grid System
		Worapong Pairindra : <i>Valaya Alongkorn Rajabhat University, Thailand</i>
		Surin Khomfoi : <i>King Mongkut's Institute of Technology Ladkrabang, Thailand</i>
13:20-13:40	1077	An Adaptive Pulse Charging Algorithm for Lithium Batteries
		Senevirathna Mudiyansele, Isuru Niroshana, Siriroj Sirisukprasert : <i>Kasetsart University, Thailand</i>
13:40-14:00	1096	Reactive Power Compensation using Inverter Air-Condition for Smart Home Application Aeknarin Aroon, Surin Khomfoi, Chaitouch Maneeinn : <i>King Mongkut's Institute of Technology Ladkrabang, Thailand</i>
14:00-14:20	1152	Operation Region of Class E Resonant Inverter for Ultrasonic Transducer Saransak Niyomthai, Anawach Sangswang, Sumate Naetiladdanon, Ekkachai Mujjalinvimut : <i>King Mongkut's University of Technology Thonburi, Thailand</i>
14:20-14:40	1173	The Design of the PI controller with SmartCtrl for the Solid State Transformer in the Solar Farm Application
		Panya Khemmook, Surin Khomfoi : <i>King Mongkut's Institute of Technology Ladkrabang, Thailand</i>
15:00-15:20	-	Break

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Tuesday, June 27, 2017

Time: 15:20-17:40

Room : Session		Dalah 1 : Power Electronics (II)
Session Chair		Wuttibhat Jamratnaw : <i>Loei Rajabhat University</i>
Time	PID	Paper Title / Author
15:20-15:40	1192	Influence of distance and frequency variations on wireless power transfer
		Ekkachai Chaidee, Anawach Sangswang, Sumate Naetiladdanon, Ekkachai Mujjalinvimut : <i>King Mongkut's University of Technology Thonburi, Thailand</i>
15:40-16:00	1196	A Study on Energy Reduction Based on Responsive Behavior of Users
		Wanatsanan Fungsirirut, Watit Benjapolakul : <i>Chulalongkorn University, Thailand</i>
16:00-16:20	1199	Development of Multi-Coils Full-Bridge Resonant Inverter for Dynamic Wireless Power Transfer
		Chan Anyapo, Nithiphat Teerakawanich, Chowarit Mitsantisuk : <i>Kasetsart University, Thailand</i>
16:20-16:40	1206	Reviews of Supercapacitors Cell Voltage Equalizer Topology for Evs
		Kwanpracha Maneesut, Uthane Supatti : <i>Kasetsart University, Thailand</i>
16:40-17:00	1231	The Design of the PI controller with SmartCtrl for the Solid State Transformer in the Solar Farm Application
		Wuttibhat Jamratnaw : <i>Loei Rajabhat University, Thailand</i>
17:00-17:20	1233	Effects of Excitation Capacitance and Speed on the Terminal Voltage of Self-Excited Induction Generator-based Flywheel Energy Storage System
		Paiwan Kerdtuad : <i>Rajamangala University of Technology Isan, Thailand</i>
18:00-20:00	-	Welcome Reception Cocktail at Sky Pool

ECTI-CON 2017 Final Program

Tuesday, June 27, 2017

Time: 13:00-15:20

Room : Session		Dalah 2 : Device, Circuits and Systems (I)
Session Chair		Surachoke Thanapitak : <i>Mahidol University</i>
Time	PID	Paper Title / Author
13:00-13:20	1020	Effects of polarized light irradiation on double-ferromagnetic-gate silicene junction
		Peerasak Chantngarm, Kou Yamada : <i>Gunma university, Japan</i>
13:20-13:40	1028	Programmable logic based current control of light emitting diodes using sigma-delta modulation
		Ian Grout, Yong Sheng Ong, Elfed Lewis : <i>University of Limerick, Republic of Ireland</i>
		Waleed Mohammed : <i>Bangkok University, Thailand</i>
13:40-14:00	1029	Optical Fiber Sensor System Design Utilizing The Field Programmable Gate Array
		Yong Sheng Ong, Ian Grout, Elfed Lewis : <i>University of Limerick, Republic of Ireland</i>
		Waleed Mohammed : <i>Bangkok University, Thailand</i>
14:00-14:20	1044	A modified voltage-clamped ISFET readout circuit for low voltage applications
		Surachoke Thanapitak : <i>Mahidol University, Thailand</i>
		Chutham Sawigun : <i>Mahanakorn University of Technology, Thailand</i>
14:20-14:40	1089	The evaluation of elbow joint motion using bio-impedance signal
		RenHe Liu, Booncharoen Wongkittisuksa : <i>Prince of Songkla University, Thailand</i>
14:40-15:00	1056	Development of Real Time Smart Electronic Nose System for Monitoring Organic Abundance in Soil
		Surachoke Thanapitak, Teerakiat Kerdcharoen : <i>Mahidol University, Thailand</i>
15:00-15:20	-	Break

ECTI-CON 2017 Final Program

Tuesday, June 27, 2017

Time: 15:20-17:40

Room : Session		Dalah 2 : Device, Circuits and Systems (II)
Session Chair		Ubon Thongsatpornwatana : <i>Defence Technology Institute</i>
Time	PID	Paper Title / Author
15:20-15:40	1059	A Design of Sign Video Image Expander for HDMI Source using Bicubic Interpolation
		Auangkun Rangsikunpum, Ekachai Leelarasmee, Suree Pumrin : <i>King Mongkut's University of Technology Thonburi, Thailand</i>
15:40-16:00	1065	Urine Odor Detection by Electronic Nose for Smart Toilet Application
		Teerakiat Kerdcharoen, Chutintorn Sriphrapadang : <i>Mahidol University, Thailand</i>
16:00-16:20	1083	Single-Input Three-Output Current-Mode Multifunction Filter Using Single CCCTA
		Jakrawat Budboongu, Worapong Tangsrirat : <i>King Mongkut's Institute of Technology Ladkrabang, Thailand</i>
16:20-16:40	1092	The Study of P-Type and N-Type Diamond Crystals Synthesis by Hot Filament Chemical Vapor Deposition
		Piyachat Sodngam : <i>King Mongkut's Institute of Technology Ladkrabang, Thailand</i>
16:40-17:00	1093	Simple QCM-D Measuring Circuit for Aqueous Applications
		Kristanai Santiviparat, Mana Sriyudthsak : <i>Chulalongkorn University, Thailand</i>
17:00-17:20	1048	Optimum Lowest Input Energy for First-order Circuits in Transient State
		Radit Smunyahirun, Eng Leong Tan : <i>Nanyang Technological University, Singapore</i>
17:20-17:40	1148	Improvement of Intelligent Framework for Suspect Vehicle Detection System
		Ubon Thongsatpornwatana : <i>Defence Technology Institute, Thailand</i>
		Woraphon Lilakiatsakun : <i>Mahanakorn University of Technology, Thailand</i>
		Tossapon Boongoen : <i>Navaminda Kasatriyadhiraj Royal Thai Air Force Academy, Thailand</i>
18:00-20:00	-	Welcome Reception Cocktail at Sky Pool

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Tuesday, June 27, 2017

Time: 13:00-15:20

Room : Session		Dalah 3 : Electrical Power Systems (I)
Session Chair		Amornrat Limmanee : <i>National Electronics and Computer Technology Center</i>
Time	PID	Paper Title / Author
13:00-13:20	1030	Development of a Tool for Estimating Power Output of Photovoltaic Systems: A Proposed Assessment Model Emphasizing Temperature Loss
		<i>Amornrat Limmanee : National Electronics and Computer Technology Center, Thailand</i>
13:20-13:40	1061	Power Development Planning Considering Power Plant Response to Load Change
		<i>Sasipa Vongsurapaithoon, Kulyos Audomvongseree : Chulalongkorn University, Thailand</i>
13:40-14:00	1066	Optimum schedule and size of BESS in the low voltage network with high penetration of solar rooftops to maintain voltages within acceptable limit
		<i>Anh Thi Nguyen, Surachai Chaitusaney : Chulalongkorn University, Thailand</i>
14:00-14:20	1075	Determination of Optimal Battery Size in Generation System Considering Ramp Rate of Load and Renewable Energy Generation
		<i>Pattapone Unchugchun, Kulyos Audomvongseree : Chulalongkorn University, Thailand</i>
14:20-14:40	1078	An Appropriate Size and Operation of Battery Energy Storage System for PV Rooftop with Net-Metering Scheme
		<i>Chawin Prapanukool, Surachai Chaitusaney : Chulalongkorn University, Thailand</i>
14:40-15:00	1079	Optimal Critical Peak Pricing Scheme with Consideration of Marginal Generation Cost
		<i>Kornthewin Boonchuay, Surachai Chaitusaney : Chulalongkorn University, Thailand</i>
15:00-15:20	-	Break

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Tuesday, June 27, 2017

Time: 15:20-17:40

Room : Session		Dalah 3 : Electrical Power Systems (II)
Session Chair		Chaiwat Nuthong : <i>King Mongkut's Institute of Technology Ladkrabang</i>
Time	PID	Paper Title / Author
15:20-15:40	1082	Power Losses Reduction Analysis in Mae Sariang Microgrid System
		Jetsada Kantiyawong, Suttichai Premrudeepreechacharn : <i>Chiang Mai University, Thailand</i>
15:40-16:00	1094	Fault location in distribution systems based on analysis of voltage sags
		Kittituch Kraikiat, Thavatchai Tayjasanant : <i>Chulalongkorn University, Thailand</i>
16:00-16:20	1106	Performance and Reliability Benchmarking of Phasor Data Concentrator Software Systems and Preliminary Designing of Wide-Area Monitoring System
		Jatupol Pongnark, Sansiri Tanachutiwat : <i>King Mongkut's University of Technology North Bangkok, Thailand</i>
16:20-16:40	1111	Benefit Analysis of Demand Response in Southern Thailand with Consideration of Reserve Margin
		Chatchai Nacharoenkul, Surachai Chaitusaney : <i>Chulalongkorn University, Thailand</i>
16:40-17:00	1164	Impact of EV Home Charger on Distribution Transformer Overloading in an Urban Area
		Suphanut Satarworn, Naebboon Hoonchareon : <i>Chulalongkorn University, Thailand</i>
17:00-17:20	1055	Voltage and Energy Loss Assessment for Systems with Smart Inverter Functions of Rooftop Solar
		Van Tu Dao, Hideo Ishii, Yasuhiro Hayashi : <i>Waseda University, Japan</i>
17:20-17:40	1107	Performance analysis of short term electricity demand with meteorological parameters
		Kamal Chapagain : <i>Thammasat University, Thailand</i>
18:00-20:00	-	Welcome Reception Cocktail at Sky Pool