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INTERNATIONAL CONFERENCE OBJECTIVE The objective of the international conference is to bring together leading scientists, researchers, scholars and practitioners from academia and industry to present their recent momentous scientific advances & findings and discuss future trends, directions and new challenges in science, engineering and technology.The international conference is an interdisciplinary, multidisciplinary crossdisciplinary & transdisciplinary organization of a number of specific conference themes and topics; and the high impact papers in each session are drawn from a number of disciplines.



INTERNATIONAL CONFERENCE PROGRAMME SINGAPORE SEPTEMBER 12-13, 2013

River View Hotel Singapore, 382 Havelock Road, Singapore 169629 Tel: ++65-6732 9922 Fax: ++65-6732 1034

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INTERNATIONAL SPECIAL JOURNAL ISSUES

A number of selected high-impact full text papers will also be considered for the special journal issues. The paper selection will be carried out during the review process as well as at the congress presentation stage. The final decision for paper selection will be made based on peer review reports by the Guest Editors and the Editor-in-Chief jointly.

INTERNATIONAL SCIENTIFIC COUNCIL

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	INTERNATIONAL CON	FERENCE CALENDA	R
Istanbul	September 19-20, 2013	Penang	December 16-17, 2013
Rome	September 26-27, 2013	Melbourne	December 16-17, 2013
Paris	October 07-08, 2013	Bangkok	December 24-25, 2013
Barcelona	October 14-15, 2013	Phuket	December 26-27, 2013
Osaka	October 14-15, 2013	Paris	December 30-31, 2013
Dubai	October 22-23, 2013	Bali	January 09-10, 2014
Bali	October 30-31, 2013	Zurich	January 14-15, 2014
Hong Kong	October 30-31, 2013	London	January 19-20, 2014
Paris	November 06-07, 2013	Dubai	January 30-31, 2014
Venice	November 14-15, 2013	Phuket	February 06-07, 2014
Capetown	November 20-21, 2013	Kuala Lumpur	February 14-15, 2014
Pattaya	November 25-26, 2013	Barcelona	February 27-28, 2014
Malaga	November 28-29, 2013	Rio de Janeiro	February 27-28, 2014
Dubai	December 02-03, 2013	Hong Kong	March 05-06, 2014
Istanbul	December 05-06, 2013	Pattaya	March 13-14, 2014
Bangalore	December 05-06, 2013	Singapore	March 19-20, 2014

	September 12, 2013	REGISTRATION from 08:30am to 12:00pm from 08:45am to 12:00pm
Time	Paper Title	Authors
08:00 11:00	Chair: Vijaya Ilango	Session – I (Oral Presentation) HALL A – September 12, 2013
	Keynote Speech: Recent Research Innovations in Air Pollution & Haze Control Engineering	Prof. Dr. Eric Goh University Science Malaysia, Penang, Malaysia
	Estimation of Carbon Released from Dry Dipterocarp Forest Fire in Thailand	Ubonwan Chaiyo King Mongkut's University of Technology, Thailand
		Wilaiwan Sornpoon King Mongkut's University of Technology, Thailand
		Sontaya Kongpetch Kasetsart University, Thailand
	Influence of OMF Application Rates on Post Field Soil Fertility Status Under Pawpaw (<i>Carica papaya</i> L.) Varieties	O.O. Olubode, I.O.O. Aiyelaagbe, J.G. Bodunde Federal University of Agriculture, Nigeria
	Carbon Nanotubes-A Successful Hydrogen Storage Medium	Vijaya Ilango, Avika Gupta BITS Pilani Dubai Campus, UAE
	Production of Biodiasal from Litterant Edinia Lilis	Amir Shafeeq University of the Punjab, Pakistan
		Syed Nadir Hussain University of the Punjab, Pakistan
		Hafiz Muhammad Anwaar Asghar University of the Punjab, Pakistan
	Disclosing the Relationship among CO ₂ Emissions, Energy Consumption, Economic Growth and Bilateral Trade between Singapore and Malaysia: An Econometric Analysis	Hussain Ali Bekhet, Tahira Yasmin Universiti Tenaga Nasional (UNITEN), Malaysia
	A Critical Review on the Development of a Theoretical Framework for Managing Environmental Impacts of Construction Project	Sami Mustafa M. E. Ahmed, Noor Amila Wan Abdullah Zawawi, Zulkipli I Ghazali Universiti Teknologi Petronas, Malaysia
11:00	Coffee Break	
11:15 13:00	Chair: Arti Goel	Session – II (Oral Presentation) HALL A – September 12, 2013
	Synthesis, Characterization and Performance Study of Newly Developed Amine Polymeric Membrane (APM) for Carbon Dioxide (CO ₂) Removal	Rizwan Nasir, Hilmi Mukhtar, Zakaria Man Universiti Teknologi Petronas, Malaysia
	Accuracy of Displacement Estimation and Selection of Capacitors for a Four Degrees of Freedom Capacitive Force Sensor	Chisato Murakami Hokkaido University, Japan
	Effect of Formulation Compositions on Particle Size and Zeta Potential of Diclofenac Sodium-Loaded Chitosan Nanoparticles	Rathapon Asasutjarit, Chayanid Sornchaitawatwong, Nardauma Tipchuwong, Sirijit Pouthai Thammasat University, Thailand
	Nile Red, an Alternative Fluorescence Method for Quantification of Neutral Lipids in Microalgae	Panida Rattanapoltee, Pakawadee Kaewkannetra Khon Kaen University, Thailand
		Minghua Fu University of Toronto, Canada
	Extract on Various (Viomorphological Parameters of	Arti Goel, Kanika Sharma Amity University, India
	Salinity Stress and VAM fungi effects on Absorbtion of Ca, Mg and P on Tomato	Parisa Alizadeh Oskuie, Shahram Baghban Cirus Islamic Azad University, Iran
		Shahram Baghban Cirus, Parisa Alizadeh Oskuie Marand Branch, Islamic Azad University, Iran
POSTER	Vetiver Oil Production from Root Culture of <i>Vetiveria</i> zizanioides	Rizkita Rachmi Esyanti, Iriawati, Olga Mardisadora Institute Technology Bandung, Indonesia

POSTER	<i>In vitro</i> Plant Regeneration of Java Vetiver (<i>Vetiveria</i> zizanioides)	Iriawati Institute of Technology Bandung, Indonesia	
POSTER	Novel Process Formulation of Multiple Unit Tablet of Pantoprazole	Vipin Saini, Sunil Kamboj, Suman Bala, A. Pandurangan Maharishi Markandeshwar University, India	
POSTER	Biodegradation of Polyhydroxybutyrate-Co-Hydroxyvalerate (PHBV) Blended with Natural Rubber in Soil Environment	Karndarthip Kuntanoo Khon Kaen University, Thailand	
13:00	Lunch Break		
08:30 11:00	Chair: Shiyang Zhu, Li Yuan	Session – III (Oral Presentation) HALL B – September 12, 2013	
	(R,S)-Modules and (1,k)-Jointly Prime (R,S)-Submodules	Thawatchai Khumprapussorn King Mongkut's Institute of Technology Ladkrabang, Thailand	
	The Finite Difference Scheme for the Suspended String Equation with the Nonlinear External Forces	Jaipong Kasemsuwan King Mongkut's Institute of Technology Ladkrabang, Thailand	
	Derivation of Darcy's Law using Homogenization Method	Kannanut Chamsri King Mongkut's Institute of Technology Ladkrabang, Thailand	
	Boria: A Conventional Theatre in Malaysia	Farideh Alizadeh, Mohd Effindi Samsuddin University Malaya, Malaysia	
	CMOS-Compatible Deposited Materials for Photonic Layers Integrated Above Electronic Integrated Circuits	Shiyang Zhu, G. Q. Lo, D. L. Kwong Institute of Microelectronics, Singapore	
	CMOS-Compatible Plasmonic Nanocircuits for On-Chip Integration	Shiyang Zhu, G. Q. Lo, D. L. Kwong Institute of Microelectronics, Singapore	
	Low Frequency Noise Behaviour of Independent Gate Junctionless FinFET	Aashit Kamath Institute of Microelectronics, Singapore	
	The Circuit Simulation of GaN based Power Electronics for High Temperature Operations	Li Yuan, Weizhu Wang, Susai Lawrence Selvaraj, Guo-Qiang Lo Institute of Microelectronics, Singapore	
	Feasibility of PV Solar Plant with Dispatch-able Generation Capability for Distributed Generation In Nigeria	Oodo Ogidi Stephen, Olice Kemenanabo, Liu Yanli, Zhou Wei, Zhang Fuhong, Sun Hui Dalian University of Technology, School of Electrical Engineering Institute of Power System, China	
11:00 11:15	Coffee Break		
11:15 13:00	Chair: Z. Fang	Session – IV (Oral Presentation) HALL B – September 12, 2013	
	Distance Estimation for Radar Systems Using DS-UWB Signals	Youngpo Lee, Seokho Yoon Sungkyunkwan University, Republic of Korea	
	Unambiguous Signal Acquisition Based on Recombination of Sub-Correlations of BOC Signals	Hongdeuk Kim, Youngpo Lee, Seokho Yoon Sungkyunkwan University, Republic of Korea	
	An Improved k Nearest Neighbor Classifier Using Interestingness Measures for Medical Image Mining	J. Alamelu Mangai, Satej Wagle, V. Santhosh Kumar BITS Pilani, Dubai Campus, U.A.E	
	Investigation of Constant Transconductance Circuit for Low Power Low-Noise Amplifier	Wei Yi Lim, M. Annamalai Arasu, M. Kumarasamy Raja, Minkyu Je Institute of Microelectronics A*Star, Singapore	
	An Energy Efficient Digital Baseband for Batteryless Remote Control	Wei-Da Toh, Yuan Gao, Minkyu Je Institute of Microelectronics, Singapore	
	Modified Buck Boost Circuit for Linear and Non-linear Piezoelectric Energy Harvesting	l Made Darmayuda, Chai Tshun Chuan Kevin, Je Minkyu Institute of Microelectronics, Singapore	
	Oxide Based Resistive Random Access Memory Device for High Density Non Volatile Memory Applications	Z. Fang, B. B. Weng, X. P. Wang, G. Q. Lo, D. L. Kwong Institute of Microelectronics, Singapore	
	The Detection of Volatile Organic Compounds Using Silicon Photonic Devices	Dongliang Fu, Riazul Raziq, Mi Kyoung Park Institute of Microelectronics (A*STAR), Singapore	
	Analog Front End Low Noise Amplifier in 0.18-µm CMOS for Ultrasound Imaging Applications	Haridas Kuruveettil Institute of Microelectronics, Singapore	
13:00	Lunch Break		

08:00 11:00	Chair: Geoff Skinner, Ernesto Benini	Session – V (Oral Presentation) HALL A – September 13, 2013
	Study of Incineration of Acacia Wood Chips for Biomass Power Plant of the Royal Thai Navy in Sataheep, Chonburi Province, Thailand	Thanapong Suriyea Defence Technology Institue (Public Organisation), Thailand
	Experiment Studies on the Characteristics of AISI4130 Seamless Tube by 4 Roller Flow Forming	Teerapong N., Teeratas P., Cdr Sittha S. Defence Technology Institue (Public Organisation), Thailand
	A Study of Materials for Pressure Vessel	Sittha Saidarasamoot Defence Technology Institute (Public Organisation), Thailand
	TBC for Protection of Al Alloy Aerospace Component	Nuttapat Coompreedee Defence Technology Institute (Public Organisation), Thailand
	Performance Investigation of Solid-Rocket Motor with Nozzle Throat Erosion	Suwicha Chankapoe Defence Technology Institue (Public Organisation), Thailand
	Control of Braking Force under Loaded and Empty Conditions on Two Wheeler	Manikandan Manjaparai Sundaram, Krishnamoorthi Muthukumarasamy, Nithish Kumar Korapatti Venkatesan Sri Venkateswara College of Engineering, India
	Study on Heat Flux Simulation and Optimization of Infrared Lamp Array for Spacecraft Thermal Vacuum Test	Liu Shouwen, Cao Zhisong, Pei Yifei Beijing Institute of Spacecraft Environment Engineering, China
	Water Mist Injection in Directly Injected Intake Manifold SI Engine	Ananda Kumar Eriki, K. Prahlada Rao, A.R. Babu, G. Amba Prasad Rao Nilai University, Malaysia
	Surgery Scheduling Using Simulation with Arena	López, J.A., López, C.I, Olguín, J.E., Camargo, C. López, J.M Universidad Autónoma de Baja California, Mexico
	Multi-Objective Optimization of a Steam Turbine Stage	Ernesto Benini University of Padova, Italy
	FITTER - A Framework for Integrating Activity Tracking Technologies into Electric Recreation for Children and Adolescents	Geoff Skinner The University of Newcastle, Australia
	14-bit 1MS/s Cyclic-Pipelined ADC	Saisundar Sankaranarayanan Institute of Microelectronics, Singapore
	BIST Circuit for Testing a 5GHz High Speed DAC	Zhao Bin, Simon Ng Sheung Yan Institute of Microelectronics, Singapore
	Implementation of Power Gating Technique in CMOS Full Adder Cell to Reduce Leakage Power and Ground Bounce Noise for Mobile Application	Sathya. R. SKP Engineering College, India
	A Robotic SoC Development Platform with Automatic Synthesis of Distributed Sensing Motion Control Architecture	Huang, An National Pingtung University of Education, Taiwan
	Financing Decision and Productivity Growth for the Venture Capital Industry Using High-Order Fuzzy Time Series	Shang-En Yu Ming Chuan University, Taiwan
	FNN for Multi-Layer Motion Graph	Chun-Han Chen National Pingtung University of Education, Taiwan
	Stability Analysis for Robotics and Automation	Wen-Yen Lin National Pingtung University of Education, Taiwan
11:00 11:15	Coffee Break	
11:15 13:00	Chair: Khashayar Khorasani	Session – VI (Oral Presentation) HALL A – September 13, 2013
	Spectrum Sensing Based On the Cyclostationarity of PU Signals in High Traffic Environments	Keunhong Chae, Youngpo Lee, Seokho Yoon Sungkyunkwan University, Republic of Korea
	A Novel Frequency Offset Estimation Scheme for OFDM Systems	Youngpo Lee, Seokho Yoon Sungkyunkwan University, Republic of Korea
	Comparison of Router Intelligent and Cooperative Host Intelligent Algorithms in a Continuous Model of Fixed Telecommunication Networks	Dávid Csercsik Pázmány Péter Catholic University, Hungary
	A Robust Adaptive Congestion Control Strategy for Large Scale Networks with Differentiated Services Traffic	Khashayar Khorasani Concordia University, Canada
	Low Power Capacitance-to-Voltage Converter for Magnetometer Interface IC	Dipankar Nag, Choe Andrew Kunil, Kevin Chai Tshun Chuan, Minkyu Je Institute of Microelectronics, Singapore
	An Area-Efficient and Low-Power Digital Pulse-Width Modulation Controller for DC-DC Switching Power Converter	Lan Jingjing, Zhou Jun, Liu Xin Institute of Microelectronics, A*STAR, Singapore

		Mamatha M N B M S College of Engineering, Visveswaraya Technological University, India
	Chair: Suttipong Boonphadung	
	Bootstrap Panel Granger-Causality between Globalization and Output in the Middle Eastern Countries	Chin-Chih Chen Feng Chia University, Taiwan
	Knowledge Management Model for Modern Retail Business: A Conceptual Framework	Mum Wai Yip Tunku Abdul Rahman University College, Malaysia
	Co-Creation of Non-Economic Values in Islamic Banking: A New Frontier in Service Science	Amna Javed, Katsuhiro Umemoto, Youji Kohda Japan Advanced Institute of Science and Technology, Japan
	ARCS for Critical Information Retrieval Development	Suttipong Boonphadung Suan Sunandha Rajabhat University, Thailand
	J	Ronald F. Gue Miriam College, Philippines
13:00	Lunch	Break
08:00 11:00	Chair: Junfeng Song, Sabapathy Ananthi	Session – VII (Oral Presentation) HALL B – September 13, 2013
		Z. X. Chen, A. Kamath, GQ. Lo, DL. Kwong Institute of Microelectronics, Singapore
	Switching Behaviors of HfO ₂ /NiSi _x Based RRAM	Z.X. Chen, Z. Fang, X.P. Wang, GQ. Lo, DL. Kwong, Y.H. Wu Institute of Microelectronics, A*STAR, Singapore
	Impact of Process Variations on the Vertical Silicon Nanowire Tunneling FET (TFET)	Z.X. Chen, T.S. Phua, X.P. Wang, GQ. Lo, DL. Kwong Institute of Microelectronics, A*STAR, Singapore
		S. Ananthi, K. Padmanabhan, K. R. Balaji University of Madras, India
POSTER	Effect of Heat Curing Methods on the Characteristics of the Concrete subjected to Low Temperature	Chun-Jin Park, Min-Cheol Han, Kyung-Taek Koh, Gum-Sung Ryu Korea Institute of Construction Technology (KICT), Republic of Korea
POSTER	Array with Parallel Optical Feeding	Xianshu Luo, Junfeng Song, Haifeng Zhou, Xiaoguang Tu, Qing Fang, Zhe Xiao, Patinharekandy Prabhathan, Feng Luan, Peng Huei Lim, Tsung-Yang Liow, Mingbin Yu, Guo-Qiang Lo Institute of Microelectronics, Singapore
POSTER		Haifeng Zhou, Junfeng Song, Chao Li, Huijuan Zhang, Patrick Guoqiang Lo Institute of Microelectronics, Singapore
POSTER		Chao Li, Huijuan Zhang, Mingbin Yu, G. Q. Lo Institute of Microelectronics, Singapore
POSTER		Z. Fang, B. B. Weng, X. P. Wang, G. Q. Lo, D. L. Kwong Institute of Microelectronics, Singapore
POSTER		Lianxi Jia, Tsung-Yang Liow, Junfeng Song, Xianshu Luo, Qing Fang, Mingbin Yu, Guoqiang Lo Institute of Microelectronics, Singapore
POSTER		Fei Sun, Ning Duan, Guo-Qiang Lo Institute of Microelectronics, Singapore
POSTER		B.B. Weng, Z. Fang, Z.X. Chen, X.P. Wang, G.Q. Lo, D.L. Kwong Institute of Microelectronics, Singapore
POSTER		B.B. Weng, Z. Fang, Z.X. Chen, X.P. Wang, G.Q. Lo, D.L. Kwong Institute of Microelectronics, Singapore
POSTER		Dan Lei Yan, He Jin, Zhao Bin, C John Leo, Simon Ng, Minkyu Je Institute of Microelectronics, Singapore
POSTER		Xiaoguang Tu, Tsung-Yang Liow, Junfeng Song, Xianshu Luo, Qing Fang, Mingbin Yu, Guo-Qiang Lo Institute of Microelectronics, Singapore
POSTER	Quasi Digital Optical Switch Based on SOI Chip	Junfeng Song , Xianshu Luo, Xiaoguang Tu, Lianxi Jia, Qing Fang, Tsung- Yang Liow, Mingbin Yu, Guo-Qiang Lo Institute of Microelectronics, Singapore
POSTER	Lateral and Vertical Leakage Currents Measured on MOCVD Grown AlGaN/GaN HEMTs on 200 mm Silicon (111) Substrate	Lawrence Selvaraj Institute of Microelectronics (IME), India

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POSTER	Study of Surface Morphology of AIN Nucleation Layer Grown on Si (111) Substrates	W. Z. Wang, L. Yuan, S. L. Selvaraj, G. Q. Lo Institute of Microelectronics, A*STAR, P.R. China
POSTER	Discrete Wavelet Transform Decomposition Level Determination Exploiting Sparseness Measurement	Lei Liao, Chao Wang, Xin Liu Institute of Microelectronics, Singapore
POSTER	Ni Metallization on SiGe Nanowire	Yida Li, Xin Peng Wang Institute of Microelectronics, Singapore
POSTER	Current Mode Logic Circuits for 10-bit 5GHz High Speed Digital to Analog Converter	Zhenguo Vincent Chia, Sheung Yan Simon Ng, Je Minkyu Institute of Microelectronics, Singapore
POSTER	Polarities Depended Switching Characteristic of ReRAM Device	Gu Chenjie Institute of Microelectronics, Singapore
POSTER	Isolation and Purification of Methylated DNA on Solid Phase Device with Label-Free and Real-Time Manner	Promoda Agampodi Perera, Yong Shin, Mi Kyoung Park Institute of Microelectronics, Singapore
POSTER	Effect of Curcumin on Human Testicular Cancer Cell Membrane Lipid Profile	Cort Aysegul, Ozben Tomris, Melchiorre Michele, Chatgilialoglu Chrys, Ferreri Carla Akdeniz University, Turkey
POSTER	An Investigation of Turkish Nursing Students? Readiness and Perceptions to Use Mobile Technologies for Learning	Deniz Ozel, Nese Zayim Akdeniz University, Turkey
11:00 11:15	Coffee Break	
11:15 13:00	Chair: Belwal Rakesh, Ghasak Ghazi Faisal	Session – VIII (Oral Presentation) HALL B – September 13, 2013
	The Effect of <i>Eurycoma longifolia</i> Jack Extract (Tongkat Ali) on Serum Leptin Levels of Male Rats	Ghasak Ghazi Faisal International Islamic University Malaysia, Malaysia
	Process Simulations of Upgrading Reformates from Catalytic Naphtha Reforming	Naphat Trimaethawee, Chakrid Patamatamkul, Jaruwan Wisarnmetinee, Apichit Svang-Ariyaskul Sirindhorn International Institute of Technology, Thailand
	Response Time Behavior Trends of Proptional, Propotional Integral and Proportional Integral Derivative Mode on Lab Scale	Syed Zohaib Javaid Zaidi University of the Punjab, Pakistan
	Efficacy and Stability of Ceramic Powder to Inactivate Avian Influenza Virus	Chanathip Thammakarn, Misato Tsujimura, Keisuke Satoh, Tomomi Hasegawa, Miho Tamura, Akinobu Kawamura, Yuki Ishida, Atsushi Suguro, Hakimullah Hakim, Sakchai Ruenphet, Kazuaki Takehara Gifu University, Japan
	Effects of Different Levels of Dietary Sun-Dried Cassava Peels on the Growth Performance and Economical Effect of Different Level of Dietary Sundried Cassava Peels on the Growth Performance and Economical Characteristics of Nile Tilapia (<i>Oreochromis niloticus</i>)	
	Towards a Sustainable Fisheries Sector in Oman: Training Needs Assessment of Eisbermen in Oman through Concept	Belwal Rakesh, Belwal Shweta, Al Jabri Omar Sohar University, Oman
	Effect of Feeding Systems on Meat Goat CLA	P. Paengkoum, A. Lukkananukool, S. Bureenok, Y. Kawamoto, Y. Imura, J. Mitchaothai , S. Paengkoum, S. Traiyakun Suranaree University of Technology, Thailand
	Effects of Dietary Thyme Leaf on Oxidative Stability of Refrigerated Raw and Cooked Broiler Chicken Meat	M.A. Ayoola, M.H. Ogunsipe, O.A. Adedeji Adeyemi College of Education, Nigeria
	Impact of Nonthermal Pulsed Electric Field on Bioactive Compounds and Browning Activity in <i>Emblica officinalis</i> Juice	Vasudha Bansal Academy of Scientific and Innovative Research-Central Scientific Instruments Organisation (AcSIR-CSIO), India
REMARK: For e-poster presentations, we kindly ask the presenters to prepare a short electronic presentation for their e-posters as scheduled at the end of oral presentations . The electronic e-poster presentations will last in 5 min. including discussions.		
1- Laptop Computer 2- LCD Data Projector 3- LISB Flash Drive – Memory (CD/DVD-ROM Drive is NOT		 4- PowerPoint Presentation Remote with Laser Pointer 5- PowerPoint Presentation/ Acrobat Reader Software 6- Each Technical Presentation is 20 Minutes including Discussions