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INTERNATIONAL CONFERENCE OBJECTIVES

The conference is an interdisciplinary organization; the papers in each session are drawn from a number of disciplines. The main objective of this conference is to create an effective medium for academia and industries to present and share ideas, innovations and problem solving techniques, the results of their recent research activities in the field of applied science, engineering and technology, as well as social and human sciences.

WASET 2012 PERTH, AUSTRALIA INTERNATIONAL CONFERENCE PROGRAM

December 6-7, 2012 Mercure Perth Hotel, 10 Irwin Street, Perth, Australia
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International University of Science, Engineering and Technology

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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 conference 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.

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GUIDELINES FOR JOURNAL MANUSCRIPT SUBMISSION

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**WASET 2012
CONFERENCE CALENDAR**

- Bangkok, TH: December 22-23, 2012
- Phuket, TH: December 24-25, 2012
- Zurich, CH: January 14-15, 2013
- Dubai, UAE: January 30-31, 2013
- Kualalumpur, MY; February 14-15, 2013
- Barcelona, SP; February 27-28, 2013
- Rio de Janeiro, BR; March 14-15, 2013
- Madrid, SP; March 28-29, 2013
- Venice, IT; April 14-15, 2013
- Johannesburg, ZA; April 29-30, 2013
- Amsterdam, NL: May 15-16, 2013
- Berlin, DE: May 22-23, 2013
- Tokyo, JP: May 30-31, 2013
- Copenhagen, DK; June 13-14, 2013
- Toronto, CA; June 20-21, 2013
- Istanbul, TR; June 20-21, 2013
- Paris, FR; June 27-28, 2013

In the recent past conference has been held in Amsterdam, Auckland, Bali, Bangkok, Barcelona, Berlin, Budapest, Cairo, Cape Town, Copenhagen, Dubai, Florence, Heidelberg, Hong Kong, Istanbul, Johannesburg, Krakow, Kuala Lumpur, London, Los Angeles, Lucerne, Madrid, Malaga, Melbourne, Nice, Osaka, Oslo, Paris, Penang, Perth, Phuket, Prague, Pune, Rio de Janeiro, Rome, Singapore, Stockholm, Sydney, Tokyo, Toronto, Venice, Vienna.

REMARKS: Presenters of particular session should be ready in the meeting room at least 10 minutes before the beginning of the session. Also, Presenters should introduce themselves to the session chair and upload their papers to the computer.

CONFERENCE REGISTRATION
December 6, 2012 from 08:30am to 12:00pm
December 7, 2012 from 08:45am to 12:00pm

Time	Paper Title	Authors
09:00 11:00	Chair: Jarrod Trevathan, Trina Myers	Session – I (Oral Presentation) HALL A – December 6, 2012
	Anti-Social Networking?	Jarrold Trevathan, Trina Myers Griffith University, Australia
	Optimising Data Transmission in Heterogeneous Sensor Networks	M. Hammerton, J. Trevathan, T. Myers, W. Read Griffith University, Australia
	An Evaluation Model for Semantic Enablement of Virtual Research Environments	Trina Myers James Cook University, Australia
	Semantic support for hypothesis-based research from smart environment monitoring and analysis technologies	Trina Myers James Cook University, Australia
	Defense Methodology Analysis By Using Padded Cell Technology	Dewald Blaauw Stellenbosch University, South Africa
	The influence of electrode heating on the force generated on a high voltage capacitor with asymmetrical electrodes	Primas, J., Malik, M., Jasikova, D., Kopecky, V. Technical University of Liberec, Czech Republic
	Software Risk Factors of Highest Importance: A Review	Yousef Al-Ohali King Saud University, Saudi Arabia
	A Review on Soft Computing Technique in Intrusion Detection System	Noor Suhana Sulaiman, Rohani Abu Bakar, Norrozila Sulaiman TATi University College, Malaysia
	A Novel Instantaneous Frequency Computation Approach for Empirical Mode Decomposition	Liming Zhang University of Macau, Macau, China
	Adaptive Digital Watermarking Integrating Fuzzy Inference HVS Perceptual Model	Sherin M.Youssef, Ahmed Abouelfarag, Noha M.Ghatwary Arab Academy for Science and Technology, Egypt
	Fingerprint Enhancement Based on Histogram Equalization, Contrast Adjustment and Bit Reduction of Vector Quantization	Muna F. Al-Sammarie AL-Zaytoonah University of Jordan / Faculty of Economics and Administrative Sciences, Jordan
	Design and Optimisation procedure of an 34 GHz Low Noise Amplifier	Abdulrahman Alghanim Riyadh College of Technology, Saudi Arabia
	An Optimal Storage Node Placement in Wireless Sensor Networks	Vipan Arora, T.P. Sharma, K.R. Sharma National Institute of Technology, Hamirpur, India
	Transmission Mains Earthing Design and Concrete Pole Deployments	M. Nassereddine, J. Rizk, A. Hellany, M. Nagrial University of Western Sydney, Australia
11:00 11:15	Coffee Break	
11:15 13:00	Chair : Hideaki Tsukamoto	Session – II (Oral Presentation) HALL A – December 6, 2012
	Development of a Methodology for Processing of Drilling Operations	Majid Tolouei-Rad, Ankit Shah Edith Cowan University, Perth, Western Australia
	Design of Modular Robotic Joints for Achieving Various Robot Configurations	Majid Tolouei-Rad, Anurag Dhull Edith Cowan University, Perth, Western Australia
	An automated approach for assembling modular fixtures using SolidWorks	Uday Hameed Farhan, Majid Tolouei-Rad, Simona O'Brien Edith Cowan University, Perth, Western Australia
	Mechanical behavior of deep-drawn cups with aluminum/duralumin multi-layered clad structures	Hideaki Tsukamoto, Yoshiki Komiya, Hisashi Sato, Yoshimi Watanabe Nagoya Institute of Technology, Japan
	Design and manufacturing of a propeller for axial-flow fan	Diego Moisés Almazo Pérez, Miguel Toledo Velázquez, Carlos Manuel Rodríguez Román Instituto Politécnico Nacional, México
	High-Resolution 12-Bit Segmented Capacitor DAC in Successive Approximation ADC	Wee Leong Son, Hasmayadi Abdul Majid, Rohana Musa MIMOS Berhad, Malaysia

	Ocean Wave Kinetic Energy Harvesting System for Automated Sub Sea Sensors	Amir Anvar, Dong Yang Li The University of Adelaide, Australia
	An Iterative Algorithm for Inverse Kinematics of 5-DOF Manipulator with Offset Wrist	Juyi Park, Jung-Min Kim, Hee-Hwan Park, Jin-Wook Kim, Gye-Hyung Kang, Soo-Ho Kim Daewoo Shipbuilding and Marine Engineering Co. Ltd., Korea
	Identifying Significant Factors of Brick Laying Process through Design of Experiment and Computer Simulation: a case study	Mohammad Hossein Zarei, Amin Nikakhtar, Arousha Haghighian Roudsari, Najme Madadi, Kuan Yew Wong Universiti Teknologi Malaysia
	Development of an Automatic Deep-Hole Measurement System	Hazrat Ali Kyushu University, Japan
	Design of Composite Risers for Minimum Weight	Chunguang Wang, Krishna Shankar, Evgeny V. Morozov University of New South Wales Canberra, Australia
	An Investigation of Solving Multidimensional Multiphase Flow: Streamline front tracking method	A. K. Borah, P. K. Singh, P. Goswami Department of Mathematics, R. G. Baruah College, India
	Model Development for Allocation of Raw Material in Timber Processing Industry in Indonesia	Muh. Hisjam, Nancy Oktyajati, Wakhid A. Jauhari, Wahyudi Sutopo Sebelas Maret University, Indonesia
	Supply Chain Model for Implementation Timber Legality Verification System on Furniture Company Export Oriented	Didiek S. Wiyono Sebelas Maret University, Indonesia
13:00 14:00	Lunch Break	
14:00 16:00	Chair : Vijay Shankar	Session – II (Oral Presentation) HALL A – December 6, 2012
	Dynamical Network Transmission of H1N1 Virus at the local level	Puntani Pongsumpun King Mongkut's Institute of Technology Ladkrabang, Thailand
	Mathematical Model for the Transmission of Leptospirosis in Juvenile and Adults Humans	Puntani Pongsumpun King Mongkut's Institute of Technology Ladkrabang, Thailand
	Nonfactorizable Contributions to Weak $D \rightarrow \pi \pi$ Decay Modes	K. K. Sharma, A. C. Katoch National Institute of Technology, Hamirpur, India
	The Global Stability Using Lyapunov Function	R. Kongnuy., E. Naowanich., T. Kruehong Rajamangala University of Technology Suvarnabhumi, Thailand
	The Integrated Studies of Infectious Disease Using Mathematical Modeling and Computer Simulation	R. Kongnuy., E. Naowanich Rajamangala University of Technology Suvarnabhumi, Thailand
	Zero Inflated Strict Arcsine Regression Model	Phang Yook Ngor, Loh Er Fu Universiti Teknologi MARA Kampus Bandaraya Melaka, Malaysia
	Molecular dynamics simulation of lubricant adsorption and thermal depletion instability	Bei Li, Qiu B. Chen, Chee H. Wong Nanyang Technological University, Singapore
	Combine Duration and "Select the priority trip" to Improve the Number of Boats	Liu Shu University of Electronic Science and Technology of China, China
	Mathematical Programming on Multivariate Calibration Estimation in Stratified Sampling	Dinesh Rao, M. G. M. Khan The University of the South Pacific, Fiji Islands
	An Estimation of the Performance of HRLS Algorithm	Shazia Javed, Noor Atinah Ahmad Universiti Sains Malaysia, Malaysia
	Trajectory Tracking using Artificial Potential Fields	Krishna Sami Raghuwaiya The University of the South Pacific, Fiji
	Autonomous Control of Multiple Mobile Manipulators	Shonal Singh The University of the South Pacific, Fiji
09:00 11:00	Chair : Borah Kumar Arup	Session – IV (Oral Presentation) HALL A – December 7, 2012
	Value of Reelin as Parameter for Monitoring Hepatic Fibrogenesis in a Group of Egyptian HCV Infected Patients	Soheir S. Mansy, Mona Nosseir, Mona Zoheiry, May Osman, Moetaz Theodor Bilharz Research Institute, Egypt
	Design of Salbutamol Sulphate Gastroretentive Nanoparticles via Surface Charge Manipulation	Diky Mudhakir School of Pharmacy, Institut Teknologi Bandung, Indonesia
	Effect of Geum kokanicum Total Extract on Induced Nociception and Inflammation in Male Mice	Mina Ramezani, Sara Ghaderifard, Hamid Reza Monsef-Esfahani, Sima Nasri Department of Biology-Ashtian Branch-Islamic Azad University, Iran
	Metabolic Analysis of Fibroblast Conditioned Media and Comparison with Theoretical Modeling	Priyanka Gupta IITB Monash Research Academy, India

	Effects of Geometry of Disk Openers on Seed Slot Properties	Esmaeil Seidi Payam Noor University, Iran
	Optimization of the headspace solid-phase microextraction gas chromatography for volatile compounds determination from <i>Phytophthora cinnamomi</i> Rands	Rui Qiu, Gils Hardy, Robert Trengove, Dong Qu, Manjree Agarwal, Yonglin Ren Murdoch University and Northwest A&F University, Australia
	Ethanol Expansion and Agriculture Impacts	Aerwadee Ubolsook, Pual Jakus Kasetsart University, Thailand
	Effect of S-girdling on fruit growth and fruit quality of wax apple	Minh Tuan, Nguyen, Chung Ruey, Yen National Pingtung University of Science and Technology, Taiwan
	Predictability of the Two Commonly Used Models to Represent the Thin-layer Re-wetting Characteristics of Barley	M. A. Basunia Sultan Qaboos University, Oman
	Architecture Integrating Wireless Body Area Networks with Web Services for Ubiquitous Healthcare Service Provisioning	Ogunduyile Oluwagbenga Oluwkayode Tshwane University of Technology, South Africa
	Bone Proteome Study in Ovariectomised Rats Supplemented With Palm Vitamin E	Patrick Nwabueze Okechukwu National University of Malaysia, Malaysia
	Designing Transcutaneous Inductive Powering Links for Implanted Micro-System Device	Saad Mutashar Abbas, M. A. Hannan, S. A. Samad, A. Hussain Universiti Kebangsaan Malaysia-UKM, Malaysia
	Effect of Shallow Groundwater Table on the Moisture Depletion Pattern in Crop Root Zone	Vijay Shankar National Institute of Technology Hamirpur, India
	A Simulated Design and Analysis of a Solar Thermal Parabolic Trough Concentrator	Fauziah Sulaiman, Nurhayati Abdullah, Balbir Singh Mahinder Singh Universiti Sains Malaysia, Malaysia
11:00 11:15	Coffee Break	
11:15 13:00	Chair : Petr Seda, Borah Kumar Arup	Session –V (Oral Presentation) HALL A – December 7, 2012
	Performance of Heterogeneous Autoregressive Models of Realized Volatility: Evidence from U.S. Stock Market	Petr Seda VSB-Technical University of Ostrava, Czech Republic
	Online Brands: A Comparative Study of World Top Ranked Universities with Science and Technology Programs	Zullina H. Shaari, Amzairi Amar, Abdul Mutalib Embong, and Hezlina Hashim; Universiti Teknologi Petronas, Malaysia
	Job Satisfaction, Organizational Commitment, and Turnover Intention: A Case Study on Employees of a Retail Company in East Malaysia	Rohani Salleh, Mishaliny Sivadahasan Nair, Haryanni Harun Universiti Teknologi Petronas, Malaysia
	Fuzzy Numbers and MCDM Methods for Portfolio Optimization	Thi Thanh Nguyen, Lee N. Gordon-Brown Monash University, Australia
	Learning Undergraduate Mathematics in a Discovery-Enriched Approach	Kam-Moon Liu, Kwok-Chi Chim, Kwok-Wai Chung, Daniel Wing-Cheong Ho; City University of Hong Kong
	Understanding Socioscientific Issues in a Low Literate Society for the Achievement of the Millennium Development Goals	Jamil Mikhail Yahaya, Ahmad Nurulazam Md Zain, Mageswary Karpudewan; Universiti Sains Malaysia, Malaysia
	Enhancing soft skills through peer review activity in a technical writing class	Hairuzila Idrus Universiti Teknologi Petronas, Malaysia
	What managers think of informal networks and knowledge sharing by means of personal networking?	Mahmood Q.K. Ghaznavi, Martin Perry, Paul Toulson, Keri Logan Massey University New Zealand
	Knowledge Sharing Behaviour Among Academic Staff at a Public Higher Education Institution in Malaysia	Noor Asilah Nordin, Normala Daud, Wan Ummy Kalsom Meor Osman Universiti Teknologi MARA, Malaysia
	Definition and Classification in Law: Transgender Identities and Marriage	Kimberly Wei Yi, Tao The University of Hong Kong, Hong Kong
	A Study on the Characteristics of the Korean Color based on the Comparative Analysis of the Korea, China and Japan's Porcelains	Sungwon Jo Hongik University, Republic of Korea
	Quality learning Network: A step for Accreditation	Duangsamorn Boonpadung, Anek Lapet The Healthcare Accreditation Institute (Public Organization), Thailand
13:00 14:00	Lunch Break	
10:00 11:00	Chair : J. Nelson	e-Session – Poster December 6-7, 2012
REMARK: POSTERS SHOULD BE 1 PAGE IN AN ELECTRONIC FORMAT. POSTER PRESENTATION WILL BE 5 MINUTES. THERE IS NO PRINT OUT DISPLAY FOR POSTERS.		

	Numbers and Biomass of Bacteria and Fungi Obtained by the Direct Microscopic Count Method	Ayuko Itsuki Nara National College of Technology, Japan
	Categorization and Estimation of Relative connectivity of Genes from meta-OFTEN Network	U. Kairov, T. Karpenyuk, E. Ramanculov, A. Zinovyev Kazakh National University named after Al-Farabi, Kazakhstan
	Comparison of fat content depending on different fat definitions	Jae-Min Shin Seoul Metropolitan Government Research Institute of Public Health and Environment, Korea
	Analysis of roasted and ground grains on the Seoul (Korea) market for their contaminants of aflatoxins, ochratoxin A and Fusarium toxins by LC-MS/MS	Soyoung Jung Seoul Metropolitan Government Research Institute of Public Health and Environment, Korea
	A Supplier-Manufacturer Relationship Model for Teak Forest Carbon Sequestration and Teak Log Demand Fulfillment with Sustainability Consideration	Ririn Dewi Cahyani, Muh. Hisjam, Wahyudi Sutopo, Kuncoro Harto Widodo Sebelas Maret University, Indonesia
	The Hybrid Knowledge Model for Product Development Management	Heejung Lee, Hyo-Won Suh Daegu University, South Korea
	Utilizing Adaptive Software to Enhance Information Management	Jari Soini, Pekka Sillberg, Janne Raitaniemi Tampere University of Technology, Finland
	Social organization of Kazakhstani business under conditions of Customs Union and Common Free Market Zone: empirical study practice	Z. Zhanazarova, A.Beissenova, Zhanara Nurbekova Kazakh National University of Al-Farabi, Kazakhstan
	A Novel non-uniformity correction algorithm based on non-linear fit	Weiping Yang, Zhilong Zhang, Zengping Chen, Jun He National University of Defence Technology, China
	Fast Algorithm of Infrared Point Target Detection in Fluctuant Background	Weiping Yang, Zhilong Zhang, Zengping Chen, Jun He National University of Defence Technology, China
	Locus of control, Emotion venting strategy and Internet Addiction	Jia-Ru Li, Chih-Hung Wang, Ching-Wen Lin The Department of Guidance and Counseling, National Changhua University of Education, Taiwan
	The Relationship between Adolescent Emotional Inhibition and Depression Disorder: The Moderate Effect of Gender	Jia-Ru Li, Chih-Hung Wang, Ching-Wen Lin The Department of Guidance and Counseling, National Changhua University of Education, Taiwan
	Emotion Dampening Strategy and Internalizing Problem Behavior: Affect Intensity as Control Variables	Jia-Ru Li, Chia-Jung Li, Ching-Wen Lin The Department of Guidance and Counseling, National Changhua University of Education, Taiwan
	The Development of Positive Emotion Regulation Strategies Scale for Children and Adolescents	Jia-Ru Li, Ching-Wen Lin The Department of Guidance and Counseling, National Changhua University of Education, Taiwan
	Algorithm of Measurement of Noise Signal Power in the Presence of Narrowband Interference	Alexey V. Klyuev, Valery P. Samarin, Viktor F. Klyuev Lobachevsky State University of Nizhni Novgorod, Russia
	Efficiency of different GLR test-statistics for spatial signal detection	Olesya V. Bolkhovskaya, Alexander A. Maltsev Lobachevsky State University of Nizhny Novgorod, Russia
	Application of BP Neural Network Model in Sports Aerobics Performance Evaluation	Shuhe Shao Henan Institute of Science and Technology, China P.R.
	Modeling and Simulation of Motion of an Underwater Glider for Shallow-water Ocean Applications	Chen Wang, Amir Anvar The University of Adelaide, Australia
	A Feasibility Study of Submersible Thermal Robot Glider Controller	Yang Zhao, Amir Anvar The University of Adelaide, Australia
	Automation of the Maritime UAV Command, Control, Navigation Operations, Simulated in Real-time using Kinect Sensor: A feasibility study	Regius Asimwe, Amir Anvar The University of Adelaide, Australia
	Small Satellite Modelling and Three-axis Magnetorquer-based Stabilisation Using Fuzzy Logic Control	Amirhossein Asadabadi, Amir Anvar The University of Adelaide, Australia
	Dynamic Modelling of Underwater Manipulator and its Simulation	Ruiheng Li and Amir Parsa Anvar, Amir M. Anvar and Tien-Fu Lu The University of Adelaide, Australia
	Diagnosis of Multivariate Process via Nonlinear Kernel Method Combined with Qualitative Representation of Fault Patterns	Hyun-Woo Cho Daegu University, Republic of Korea
	Earth Potential Rise (EPR) Computation for a Fault on Transmission Mains Pole	M. Nassereddine, J. Rizk, A. Hellany, M. Nagrial University of Western Sydney, Australia
	Back emf Mapping for Sensorless Control of Brushless DC Drives	Markos Tawadros, Jamal Rizk, Mahmood Nagrial University of Western Sydney, Australia

	Design of Tracking Controllers for Medical Equipment Holders Using AHRS and MEMS Sensors	Seung You Na Chonnam National University, South Korea
	Technical Equipment 1- Laptop Computer 2- LCD Data Projector 3- USB Flash Drive - Memory 4- CD/DVD-ROM Drive	5- PowerPoint Presentation Remote with Laser Pointer 6- PowerPoint Presentation/ Acrobat Reader Software 7- Each Technical Presentation is 20 Minutes including Discussions