

IACSIT International Journal of Engineering and Technology

CONTENTS

Volume 4, Number 4, August 2012

Experimental Study on Six-phase Synchronous Alternator for Stand-alone Renewable Energy Generation...344 <i>G. K. Singh and Derminder Singh</i>	344
Optimum Design of Combined Cold Extrusion Die for Bevel Gear.....348 <i>Qing-hua Yang, Xin Chen, Bin Meng, and Juan Pan</i>	348
A Risk Assessment Tool Using a CMMI Quantitative Approach.....352 <i>Morakot Choetkiertikul and Thanwadee Sunetnanta</i>	352
Developing a Service Culture-value Chain for Hospitals.....354 <i>Boo Ho Voon, Jamil Hamali, Nagarajah Lee, Firdaus Abdullah, and Karen Kueh</i>	354
Web-Oriented Software Reliability Measurement Model and Application.....358 <i>Jian Hai-Liang and Wang Chong-Wen</i>	358
The Optimization of the Self-Compacting Concrete (SCC) Production Scheduling–Specially the Effect of the Fine Aggregate.....362 <i>Gergely A. Sik, Salem G. Nehme, and Cecília Sik-Lanyi</i>	362
Towards a User Friendly Rehabilitation Game-A Case Study.....365 <i>Cecilia Sik Lanyi, Balazs Kocsi, and Erika Laszlo</i>	365
A 6-bit 2GS/s Low Power Flash ADC.....369 <i>Jyun-Syong Lai and Zhi-Ming Lin</i>	369
Predicting the Operational Effectiveness of AircraftSurvivability Equipment Suite.....372 <i>Sanguk Noh and Chaetaek Choi</i>	372
Photoalignment Behaviors of Photopolymer with Cinnamate Group by LPUV Method.....376 <i>Si Yeol Yang, Ju Hui Kang, Seung Yong Jeong, Sangkug Lee, Kyung Ho Choi, and Gyo jic Shin</i>	376
The Characteristics of Photoalignment Layer with Chalcone Derivative for 3D Film Applications.....379 <i>Ju Hui Kang, Si Yeol Yang, Seung Yong Jeong, Sangkug Lee, Kyung Ho Choi, and Gyo jic Shin</i>	379
Using Fuzzy Logic Self-Tuning PI Gain Controller Z-Source Inverter in Hybrid Electric Vehicles.....382 <i>AnWen Shen, Cong-Thanh Pham, Phan Quoc Dzung, Nguyen Bao Anh, and Le Hoang Viet</i>	382
Optimal Design and Control of Heliostat for Solar Power Generation.....388 <i>Dong Il Lee, Woo Jin Jeon, Seung Wook Baek, and Nazar T.Ali</i>	388
An Overview on Control Concepts of Push-Belt CVT.....392 <i>Sameh Bdran, Samo Saifullah, and Ma Shuyuan</i>	392
Self-Excited Combustion Instability in Rijke-Zhao Tube with Bifurcating Branches.....396	396

Zhiyuan Zhong and Dan Zhao

Horizontal Vibration of a Rigid Circular Foundation on a Transversely Isotropic Half-Space.....	400
<i>Hamed Moghaddasi, Mohammad Rahimian, and Ali Khojasteh</i>	
Comparative Classifiers for Software Quality Assessment.....	404
<i>Sunida Ratanothayanon, Chouvanee Srivisal, Sirirut Vanichayobonand, and Ladda Preechaveerakul</i>	
Low-Cost Stable Message Log Purging Algorithm for SBML.....	409
<i>Jinho Ahn</i>	
Development of Strain Sensor Using Carbon Nanotubes Film.....	413
<i>Seok-Mo Hong, Hyung-Jin Lee, Tae-Hee Han, Ki-Bong Han, and Yongho Choi</i>	
Verification of Session Initiation Protocol Using Petri Nets.....	416
<i>Benju Xie</i>	
A Survey WLAN Security Defenses Based on the Link Layer.....	418
<i>Bo Huang</i>	
The Development and Comparison of Energy Management Systems in Electronics Manufacturer.....	421
<i>Sittikul Chayapoosorn and Jeerapat Ngaoprasertwong</i>	
Synthesis of Strong Ground Motion Using Modified Semi-Empirical Technique.....	424
<i>A. Joshi, Pushpa Kumari, and M. L. Sharma</i>	
A Fuzzy System for VSI X-Bar Control Chart.....	427
<i>Jing-Er Chiu and Bing-Tai Chen</i>	
Power Disturbance Recognition Using Back-Propagation Neural Networks.....	430
<i>Chau-Shing Wang</i>	
Experimental Study of Cymatics.....	434
<i>You Jin Oh and Sojin Kim</i>	
Malaysian Contractors in Gulf Construction: A Preliminary Study on Financial and Economic Risks.....	437
<i>Siaw Chuing Loo and Hamzah Abdul-Rahman</i>	
Review of Subcontracting Practice in Construction Industry.....	442
<i>Lew Yoke-Lian, S. Hassim, R. Muniandy, and Law Teik-Hua</i>	
The Assessment of Applications for Extension of Time Claims in Malaysian Construction Industry.....	446
<i>Lew Yoke-Lian, S. Hassim, R. Muniandy, and Tan Mee-Ling</i>	
Solar Irradiance and Load Demand Forecasting based on Single Exponential Smoothing Method.....	451
<i>P. Y. Lim and C. V. Nayar</i>	
A Conceptual Method of Constructability Improvement.....	456
<i>Samaneh Zolfagharian, Mehdi Nourbakhsh, Shaik Hussein Mydin, Rosli Mohamad Zin, and Javier Irizarry</i>	
Affordable Software for Collaboration, Document Management, and on-site Information Management in Small- and Medium-sized Construction Companies.....	460
<i>Mehdi Nourbakhsh, Samaneh Zolfagharian, Rosli Mohamad Zin, and Javier Irizarry</i>	

Ecological Footprint of Different Nations.....	464
<i>Rozana Zakari, Samaneh Zolfagharian, Mehdi Nourbakhsh, Rosli Mohammad Zin, and Masoud Gheisari</i>	
Application of Granular Activated Carbon Developed from Agricultural Waste as a Natural Gas Storage Vehicle.....	468
<i>Ramakrishna Gottipati, Baradwaj Adiraju, and Susmita Mishra</i>	
Addressing Scheduling Software for Analyzing Delay Claim.....	471
<i>Khalid S. Al-Gahtani</i>	
Flow Production of Construction Processes through Implementing Lean Construction Principles and Simulation.....	475
<i>S. A. Abbasian Hosseini, A. Nikakhtar, and P. Ghoddousi</i>	
Waste to Energy: A New Dimension in Generating Electricity in Bangladesh.....	480
<i>Kazy Fayeem Shariar and Husnain Al Bustam</i>	
Effect of Heat on the Adsorption Properties of Silica Gel.....	484
<i>Alfred A. Christy</i>	
Multi-rate Ripple-Free Deadbeat Control for Nonlinear Systems Using Diophantine Equations.....	489
<i>Hatem Elaydi and Mohammed Elamassie</i>	
Enhancement of Performance of Cognitive Radio Network with Incorporation of MRC Scheme at Secondary Receiver.....	495
<i>Risala T. Khan, Tanzilah Noor Shabnam, Md. Imdadul Islam, and M. R. Amin</i>	