## 2014 2nd International Conference on Technology, Informatics, Management, Engineering & Environment

(TIME-E 2014)

Bandung, Indonesia 19-21 August 2014



**IEEE Catalog Number: CFP1464U-POD ISBN**:

978-1-4799-4804-8

## TABLE OF CONTENTS

WELCOME SPEECH	i
CONFERENCE ORGANIZATION	ii
LIST OF TECHNICAL PROGRAM COMMITTEE (TPC) & REVIEWERS i	ii
,	/i
TABLE OF CONTENTS xi	
TABLE OF CONTENTS	"
PARALLEL SESSIONS	
Security, Cryptography, and E-Learning	
Mal-ONE: A Unified Framework for Fast and Efficient Malware Detection	
Charles Lim; Kalamullah Ramli	
A Strong Sensitivity of Digital Image Watermarking Scheme for Noise Disturbance  Didi Rosiyadi: Nova Lestriandoko: Driszal Frvantoni	,
Didi Rosiyadi; Nova Lestriandoko; Driszal Fryantoni  Gamification Framework Model, Based on Social Engagement in E-Learning 2.0	
	0
Tongos, rassprosmansyan, rounce bandang	Ĭ
Risk Management and Supply Chain	
Finding Pareto Optimum Solution Among Cost, Health Risk and Environmental Burden in Recycling	
Cooking Oil	
Koji Okuhara; Ryo Haruna	
Maximum Quantity Determination Inventory Policy for Fast-Moving Products in Convenience Store	
Distribution Center	^
Layadi, V.N. Adelein; Hidayat, Y. Agustina; Diawati, L.  A Study on RFID-Based Kanban System in Inventory Management	19
A Study on Krib-Based Kandan System in Inventory Management  Alireza Ghelichi; Ahmed Abdelgawad	
Allicza Ghellon, Allinea Abacigawau	
Numerical Simulation of Resources & Environment	
Mobile Application Development for Environmental Informatics & Feedback on Cooking Oil Use and	
Disposal in Indonesia	
Haruhiro Fujita; Wataru lijima; Noriaki Koide; Dhani Satria; Arif Santoso; Joko Prayitno Susanto; Hiroe	
,	9
Analytical Fragility Curve of Reinforced Concrete Buildings Subject to Tsunami Waves  Fritz Sihombing; Marco Torbol	34
Comparing Deterministic and Geostatistical Methods for Spatial Rainfall Distribution in Jakarta Area	4
	10
Information System (IS) S Management	
e-CRM Development Method for e-Commerce System Owned by Small Medium Enterprises	
	6
The Development of a Model on ERP Success	٠,
Rajesri Govindaraju; Dani Leonidas Sumarna; Tota Simatupang  Quality Function Deployment for Laboratory Management Information System	2
Rayinda Pramuditya Soesanto; Muhamad Shantya Utama; Amelia Kurniawati	

Electrical and Electronic Engineering	
Study of Magnetic Fields Produced by Transmission Line Tower Using Finite Element Method (FEM)	
Sharin Ab Ghani; Mohd Shahril Ahmad Khiar; Imran Sutan Chairul; Musa Yusup Lada; Nor Hidayah Rahim	64
Implementation of Sensor on the Gun System Using Embedded Camera for Shooting Training	
Aryuanto Soetedjo; Ali Mahmudi; M. Ibrahim Ashari; Yusuf Ismail Nakhoda	69
Determination of Optimal Resistance Spot Welding Parameter on Low Carbon Steel Welding Quality	
Tota Pirdo Kasih; Iwan Tutuka Pambudi; Budi Santoso	75
Water Resources Engineering	
The Integration Method of Cellular Automata(CA)Markov Chain(MC), West Java's Northern Part	
Characteristics for Land Cover Change Prediction Study	
Riantini Virtriana; Irawan Sumarto; Albertus Deliar; Agung Budi Harto; Moh. Taufik; Udjianna S Pasaribu	80
The Effectiveness of Corn Cob Activated Carbon in Rainwater Harvesting Filtration System	
Azinoor Azida Abu Bakar; Nor Syamira Hassan	86
Optimization the Process of Recycling the Water Contaminated with Dispersion Colorants	
Anna Antonyová; Peter Antony; Endra Joelianto	90
E-Learning and Teaching	
A New Model of Students Participation Measurement in e-Learning Systems Based on Meaningful	
Learning Characteristics: An Initial Investigation	
Andi Tenriawaru; Arif Djunaidy; Daniel Siahaan	96
A Framework for Designing Healthy Living Web-based Intervention to Promote Health Behavior	
Change	
Siti Noorsuriani Maon; Sharidatul Akma Abu Seman	100
A Study on the Effectiveness of a Technology Supported Approach in the Teaching of Mathematics -	
Using Geometers' Sketchpad (GSP)	
Rohaini Ramli; Rohaiza Ramli; Ramlee Mustapha	105
Industrial and Manufacturing Engineering	
A Study on Kerf and Material Removal Rate in Wire Electrical Discharge Machining of Ti-6Al-4V:Multi-	
objectives Optimization	
Juri Saedon; Norkamal Jaafar; Mohd Azman Yahaya; N.H. Mohamad Nor; Hazran Husain	111
Performance-Based Maintenance Contract for A Feed of Dump Trucks Used in Mining Industry	
Bermawi Iskandar; Andi Cakravastia; Udjianna Pasaribu; Hennie Husniah	117
The Value of Unconscious Human Behavior in Product Design Innovation	
Muhammad Jameel Mohamed Kamil; Shahriman Zainal Abidin	
Sustainability of Resources & Environment	
"How Do People View the Estuary and the Technology Management Practices to Rehabilitate It?":	
The Case of Estero De Paco in Manila	
Rex Bringula; Ria Liza Canlas; Jovy Afable; Roque Gajo; Ma. Carmelita Santos; Arlen Ancheta	128
Green Productivity Imrpovement Model for Pre-Processed Rubber (Bokar): Case Study At Rubber	
Smallholders Plantation	
Marimin; Muhammad Arif Darmawan; Sri Martini; Adhitiya Dwi Rahmanto	135
The Environmental-driven Elements Towards Ecological Systems of Furniture Design	
Mohd Hasni Chumiran;Shahriman Zainal Abidin; Anuar Sirat	141

Communication Technology
Harmonics Suppression Circular Polarization Elliptical Shape Microstrip Patch Antenna
R.A. Rahim; M. N. Junita; S. I. S. Hassan; H. F. Hassan
Integration of Cyber-Physical Systems Technology with Augmented Reality in Pre-Construction
Stage
Che Mohd Lukman Khalid; Mohamad Syazli Fathi; Zainai Mohamed
Puskesmas Information System Based on WebGIS (Case Study City of Bandung)
Istikmal; Tody Ariefianto Wibowo; Leanna Vidya Yovita
, <b>,</b>
Control System & Mechanical Engineering
Simulation and Analysis of Traffic Flow Models with Emergency Vehicles Distortion on a Single Road
Sony Sumaryo; A. Halim ; K. Ramli
An Experiment of Quadrotor Position Control Based on Model Identification and Proportional
Derivative Algorithm
Augie Widyotriatmo; Estiyanti Ekawati; Irfan Askandari
Ambient Vibrations Piezoelectric Harvester Array with Discrete Multiple Low Frequencies
Abdullah S. Alsuwaiyan; M.E.H Eltaib; Hany A. Sherif
Informatics and Management
Estimation of Sound Source Direction in Various Temperatures
Irma Safitri; Takanori Nishino; Kazuya Takeda
ImNER Indonesian Medical Named Entity Recognition
Wiwin Suwarningsih; Iping Supriana; Ayu Purwarianti
Organization's Structure Based on Competing Value Approach and Merger Strategy
Astadi Pangarso
, lotal i diigaloo
Knowledge Management & Informatic
Work Environment and Training Transfer: The Moderating Effect of Motivation
Nur Fareeha Afzan Ahmad Zubairy; Noorizan Mohamad Mozie; Norfazlina Ghazali
Identifying Components Knowledge Management for e-Health (Case Study: Mental Hospital
Indonesia)
Siti Rohajawati; Astrid Sugiana; Dana I. Sensuse; Yudho G. Sucahyo; Sofian Lusa
Knowledge Management System Readiness Analysis (Case Study at Human Resource Consulting
Company)
Anak Agung Gde Agung
Online System Design for Local Government Quality System Assesment Based on Statistic and
Weighting Analysis
Jimmy Abdel Kadar; Amelia Febri Ariani; Agus Fanar Syukri
oning road radar, randia i don randin, rigad i andi dyami
Engineering and Informatic
On-Site OLTC Monitoring Using Duval Triangle and DWRM
Mohd Shahril Ahmad Khiar; Yasmin Hanum Md Thayoob; Young Zaidey Yang Ghazali; Sharin Ab Ghani
Imran Sutan Chairul
A Conceptual Framework and Its Application for Project Developing in Mechatronics Education
Pornjit Pratumsuwan
A Study of Hold-Out and K-Fold Cross Validation for Accuracy of Groundwater Modeling in Tida
Lowland Reclamation Using Extreme Learning Machine
· · · · · · · · · · · · · · · · · · ·
Nurhayati; Iwan K. Hadihardaja; Indratmo Soekarno; M. Cahyono  Development of Game Design Guidelines
Rex Bringula; Leonard Benjamin P. Bandril; Lance Jasper C. Lopez; Argomer S. Alcid; Anfernee E. De
Guzman
Ouzman

Data Mining and Computing	
Enhancing Learning Algorithms by an Effective Structure-based Dissimilarity Measuring Approach	
Vo Thi Ngoc Chau	240
Identification the Characteristics of Indonesian Credit Card Frauds by Trough Correspondence	
Analysis (An Application of Simplification Quantitative Analysis)	
Irlandia Ginanjar; Udjianna S. Pasaribu; Sapto W. Indartno	246
Imputation Algorithm Based on Copula for Missing Value in Timeseries Data	
Yuli S. Afrianti; S.W. Indratno; Udjianna S. Pasaribu	252
Applying Bee Comb Architecture to a Design of Mobile Historical Event Storytelling: A Case Study of	
M-Seerah	
Ismassabah Ismail; Marina Ismail; Fariza Hanis Abd.Razak	258
Bio Signal Processing I	
Logistic Regression of Working Memory Impairments in Children Based on Single-Trial ERP	
Features	
Rubita Sudirman; Siti Zubaidah Mohd Tumari	264
JADE-ICA Algorithm for EOG Artifact Removal in EEG Recording	
Arjon Turnip	270
Extraction of Mental Task in EEG Signal Recorded Using ICA-JADE Algorithm	
Arjon Turnip; Demi Soetraprawata; Dwi Esti Kusumandari; Iwan R. Setiawan; Sandi Saepulloh;	
AswadHi.Saad	275
Water Technology	
Promoting Geothermal for Energy Security (A Case of Indonesia)	
Arwin D.W. Sumari; Siti Mariani; Retno Gumilang Dewi	281
Removal of Chemical and Biological Contaminants on Peat Water by Ozone-Based Advanced	
Oxidation Processes with Reverse Osmosis	
Sutrisno Salomo Hutagalung; Imamul Muchlis; Bambang Herlambang; Arjon Turnip	288
Water Purification Technology Based Advanced Oxidation Processes Emerging Ozone	
Sutrisno Salomo Hutagalung; Imamul Muchlis; Pius Sebleku; M Faizal Amri; Arjon Turnip; Hanif Fakhrurroja	292
Bio Signal Processing II	
Removal Artifacts From EEG Signal Using Independent Component Analysis and Principal	
Component Analysis	
Arjon Turnip; Edy Junaidi	296
Removing Ocular Artifact of EEG Signal Using SOBI-RO on Motor Imagery Experiment	200
Arjon Turnip; Aris Munandar; Grace Gita Redhyka; Pius Sebleku; Angga Dwi Firmanto; Togar Saragi;	
Bernard Y. Tumbelaka	303
EEG Alpha Oscillation: Handwriting Behavior Toward Working Memory Performance of Normal	000
Children Using Correlation Analysis	
Amirah Hazimah Abdul Majid; Rubita Sudirman; Siti Zubaidah Mohd Tumari	309
Annian Haziman Abddi wajid, Kubita Sudimian, Siti Zubaldan wond Tuman	303
Innovation and Technology Adoption	
Knowledge Sharing Factors and Innovation Capability	
Nurul Izyan Ghazali; Choi San Long; Norfazlina Ghazali	315
The Measurement of Humanware Readiness in a Technology Transfer Process (Case Study in An	313
Electrical Machinery Company)	
* * *	321
Iwan Inrawan Wiratmadja; Revina Novahestin Syafrian; Indryati Sunaryo; Rajesri Govindaraju  The Adoption Factors of Using E-Government Services (Study Case in Malaysia)	321
	326
Norfazlina Ghazali; Raja Munirah Raja Mustapha; Noorizan Mohamad Mozie	320

Signal Processing
Automatic Artifacts Removal of EEG Signals Using Robust Principal Component Analysis
Arjon Turnip
Removal of EOG Artifacts: Comparison of ICA Algorithm from Recording EEG
Dwi Esti Kusumandari; Hanif Fakhrurroja; Arjon Turnip; Sutrisno Salomo Hutagalung; Bagus Kumbara;
Janner Simarmata
Sierpinski Gasket Fractal Antenna with Ring-Shape Defected Ground Structure for RFID Application
Kamariah Ismail; K.A. Anis
Multimedia Applications
<u> </u>
Structural Model for the Interactive Effects in ERP Systems Usage
Billy Mathias Kalema  Theoretical Model of Knowledge Management in SMEs Life Cycle in Indepensis (A Literature Study)
Theoretical Model of Knowledge Management in SMEs Life Cycle in Indonesia (A Literature Study)  Made Andriani; TMA. Ari Samadhi; Kadarsah Suryadi; Joko Siswanto
City-Scale Weather Monitoring with Campus Networks for Disaster Management: Case Study in
Hyderabad
Hideya Ochiai; Masato Yamanouchi; Y. Karunakar Reddy; Hiroshi Esaki
Analysis of Water Source Availability Estimation for Picohydro Electric Generator (Case study in
Gunung Tua Village, Sub District of Cijambe, District of Subang, Province of West Java, Indonesia)
R. Ismu Tribowo; Aidil Haryanto
Index Author
ndex Author