



Book of Abstracts

INTERNATIONAL CONFERENCE ON ADVANCE & SCIENTIFIC INNOVATION (ICASI)

Medan, North Sumatera, Indonesia
April 23-24, 2018



The 1st International Conference On Advance & Scientific Innovation (ICASI 2018)
Empowering Digital Society Through Integration of Multidisciplinarity Aspect
Forum Kerjasama Pendidikan Tinggi



■ committess

A. Scientific Committee

- Prof.Dr. Gulsun KURUBACAK (University ANADOLU)
- Prof. Dr. Tulus Suryanto (UIN Raden Intan Lampung-Indonesia)
- Assoc. Prof. Muzammil Bin Jusoh (Universiti Malaysia Perlis-Malaysia)
- Assoc. Prof. Leon Abdillah (Universitas Bina Darma, Indonesia)
- Dr. Anusua Ghosh (University of South Australia)
- Dr. Nashrul Fazli Bin Mohd. Nasir (Universiti Malaysia Perlis-Malaysia)
- Dr. Aji Prasetya Wibawa (Universitas Negeri Malang, Indonesia)
- Dr. Haviluddin (Universitas Mulawarman, Indonesia)
- Dr. Darmawan Napitupulu (LIPI, Indonesia)
- Sriadhi, M.Pd, M.Kom, Ph.D (Univ. Negeri Medan-Indonesia)
- Tutin Aryanti, ST, MT, Ph.D (Univ. Pendidikan Indonesia)
- Dr. Juneman Abraham (Binus University-Indonesia)
- Dr. Irma Setyawati, SE, MM (Univ. Bhayangkara Jakarta Raya-Indonesia)
- Dr. Ir. Rudy Laksmono W, MT (Unhan Sentul Bogor-Indonesia)
- Dr. Isma Widiaty, M.Pd (Universitas Pendidikan Indonesia)
- Dr. Janner Simarmata, S.T., M.Kom (Universitas Negeri Medan, Indonesia)
- Dahlan Abdullah, ST, M.Kom, IPM (Univ. Malikussaleh-Indonesia)
- Muhammad Al Kholif, ST, MT (UNIPA Surabaya-Indonesia)
- Genett Jimenez (Institución Universitaria ITSA, Colombia)
- Leonel Hernandez (Institución Universitaria ITSA, Colombia)
- Ansari Saleh Ahmar, S.Si., M.Sc (Universitas Negeri Makassar, Indonesia)
- Wahyuddin Albra, SE, M.Si, Ak, CA (Universitas Malikussaleh, Indonesia)
- Muhammad Ikhsan Setiawan, ST, MT (Universitas Narotama, Indonesia)
- Heri Nurdianto, S.Kom., M.T.I (STMIK Dharma Wacana, Indonesia)
- Andri Pranolo (Universitas Ahmad Dahlan, Indonesia)
- Rahmat Hidayat (Politeknik Negeri Padang, Indonesia)

B. Organizing Committee

- General Chair
Dr. Ir. Muhammad Irwanto
- Co-Chair
Robbi Rahim S.Kom, M.Kom

Committee Members

- Marzuki bin Sepiaail - Politeknik Sultan Azlan Shah, Perak
- Dr Alias bin Saad - Politeknik Ibrahim Sultan Johor
- Faizuddin bin Hassan - Jabatan Pengajian Politeknik, Putrajaya
- Dr Hjh Nor Hayati Fatmi Talib - Politeknik Banting Selangor
- Anisah bt Nasib - Politeknik Sultan Azlan Shah, Perak
- Siti Nadiah bt Salim@Sadali - Politeknik Sultan Azlan Shah, Perak

C. Keynote Speakers

- Prof. Dato' Dr. Ab. Halim bin Tamuri (Kolej Universiti Islam Antarbangsa Selangor-Malaysia)
- Prof. Dr. Farid Wajdi Ibrahim (UIN Ar-Raniry Banda Aceh-Indonesia)
- Prof. Eon Yong Kim (Hanyang University, South Korea)

Table of Contents

	Page
A. Engineering & Technology	
A Stacked Planar Antenna with Switchable Small Grid Pixel Structure for Directive High Beam Steering Broadside Radiation Devakumaran Subramaniam	1
An Analysis & Measurement of Website Quality Using The WebQual 4.0 And Importance Performance Analysis (IPA) Method (A Case Study of Jagalempeni Village Brebes) Warjiyono	2
Characteristics of Disabled Porosity Development Engine Hot Press For Recycle Plastic HDPE Sabarudin Akhmad	3
Characteristics Surface Temperature of Solar Cell Polycrystalline Type To Output Power Isworo Pujotomo	4
Combination of Facial Biometrics and RSA Algorithms to Secure the Secret Message Sayuti Rahman	5
Comparison Study of Term Weighting Optimally With SVM in Sentiment Analysis Amril Mutoi Siregar	6
Comparisons of Fuzzy Logic and Propotional Integral Differential Controllers in Controlling Buck-boost DC-DC Converter Bayu Iqbal Siregar	7
Design A Reconfigurable Dipole Yagi-Uda Antenna At 2.4GHz For Wireless Body Area Network N.H.Ramli	8
Design And Build Water Wheel Knock Down System (Kdw2s) For To Drive Rice Milling Asep Neris Bachtiar	9
Design of Rectangular Microstrip Patch Antenna for 1.8 GHz Applications Ali Hanafiah Rambe	10
Development of Intelligent Clothesline System Lim Jia Chun	11
Development of Low Cost Recycled HDPE Filament Extruder for 3D Printing Filament Anis Arendra	12
Electric Meter Reading And Recording Remotely And Automatically Retno Aita Diantari	13
Feasibility Study of Solar and Wind Energy in Remote Islands (Gili Labak Madura) Mu'alim	14
Feature Extraction Performance Verification based on Ultra-wideband Imaging and Artificial Neural Network V.Vijayasarveswari	16
Identification of Groundwater Quality of Alluvium Zone Using Geoelectric Method of Schlumberger Configuration In Merauke City Area Virman	17
Impact Signal Propagation Parameters to UMTS-LTE Handover Chairunnisa FR. Tanjung	18



Improvement A Design of Minimization of Electrical Losses In Vector Controlled Induction Motors Drive Solly Aryza	19
Long Term Evolution (LTE) Handover Parameter Optimization Dhara Monica Aqsa	20
Model of Community-Based Erosion Restriction Maturation In Batur Lake Zone I Made Nada	21
Modification K-Means Model With Local Deviation Method To Improve The Accuracy In Forming Clusters Martiano	22
Parametric Studies of Floor Rotation Performance of Assymmetrical Building Affected by Pulse Ground Motion Gamal Halim	23
Performance of AC Contactor Under Voltage Sags and Interruption Surya Hardi	24
Person Identification And Healthy Monitoring Based On Biometric Signal Nurul Syazana	25
Potential Cultivation of Koi Fish (Cyprinus Carpio) in Ciliwung River Deffi Ayu Puspito Sari	26
Proposed ELR Model for E-Learning Readiness Evaluation Based on McKensey 7S Framework Darmawan Napitupulu	27
Proposed Model of E-Service Quality in the Context of E-Government: A Literature Review Krisna Adiyarta	28
Reducing Crosspoints on Multistage Switching by Using Batcher Banyan Switches M. Zulfin	29
Smart City Indicators Model: A Literature Review Darmawan Napitupulu	30
Solar Power Plant Grid Interactive, Building Integration Photovoltaic Rinna Hariyati	31
Start Up Data Mining With System Cloud Computing (Case Study of Education Office of Bengkulu Province) Feri Hari Utami	32
The Effectiveness of Play Therapy To Autism Children Against Fine Motor Skills By Using A Mobile Robot In School Special Kids Pekanbaru Anip Febtriko	33



The Role of Community Radio “Kelud Fm” As Media Of Education For Disaster Awareness Oktolina Simatupang	34
Tunnel Stability Analysis Based on Temporary Support Modeling In The Construction of Hasang Hepp In Toba Samosir District North Sumatra Province Tengku Tibri	35
Voice Identification Using Neural Network And Mel Frequency Cepstrum Coefficients Corianti GMS	36
B. Health & Medical Sciences	
Implementation of Exclusive Breastfeeding Policy and Role of Health Workers in Medan-Indonesia Fitriani Pramita Gurning	37
The Effect of Snail Slime (<i>Achatina fulica</i>) Concentration on The Quality of Snail Slime Soap Karlia Hedit Tiana	38
C. Physical & Life Sciences	
Application of Magnetic Coconut Shell-derived Biocarbon for Methylene Blue Removal Nor Asfaliza Abdullah	39
Characterization of Liquid Smoke From Coconut Shell Based Pyrolysis Process Rahmi Eka Putri	40
Determining Trinomial Coefficient With Ladder Multiplication and Its Construction in Circle and Cone Jufri	41
Development of Batik Writing Skill By Natural Dyes From Plant In East Java Province Nurul Huda	42
Effect of Zeolite on The Water Quality And Growth Performance of Red Hybrid Tilapia (<i>Oreochromis Niloticus</i>) Rabiatul Adawiyah Meor Mohamad Zain	43
Efficacy and Side Effects of Albendazole and Mebendazole with or without Levamisole for Trichuriasis Endy Julianto	44
Removal of Methylene Blue from Aqueous Solution by Bio-adsorbent Pouch Mohamad Faiz Mohd Amin	45
Study of Agroindustry Development of Sugar Cane As Efforts to Achieve Self-Sufficiency of Sugar Duwi Yunitasari	46
Study on Potential of <i>Azolla pinnata</i> as Larvicidal of <i>Aedes aegypti</i> Nor Shaida Husna Zulkhrmin	47
D. Social Sciences	
Communication Patterns of Management In Improving Staff Work Productivity at High School of Islamic Studies An-Nur, Jati Agung, Southern Lampung. M. Nasor	48
Compensation and organizational commitment: The mediating role of Job satisfaction M.Nasor	49



Consumer Protection Laws For Bank Customers Mohammad Roesli	50
Corporate Social Responsibility Culture: Will it Become a Funding Flow Model for Osing Cultural Actors in Banyuwangi? Ratna Wijayanti Daniar Paramita	51
Decentralization System And Application of Smart City Concept In Increasing The Level of Competitiveness And Ease of Doing Urban Business In Indonesia Delly Maulana	52
Determining the Wage Rate in Islamic Leasing Scheme of Selected Malaysian Financial Institution: A Requirement in Developing the Economy of Society Anisah Nasib	53
Does Profitability Moderate The Relationship of Interest Rate, Ratio Tangible Assets, Firm Size on Capital Structure Irawan	54
E-Assignment Design of The Information System To Increase The Effectiveness of Learning In The High School M. Adhi Prasnowo	55
Effect of Individual Taxpayer Behavior and Entrepreneurs Motivation on Tax Compliance Tulus Suryanto	56
Factors Influencing Research Productivity of Private Higher Education Institutions Lecturers in Kopertis Region XII Maluku and North Maluku Jusuf N. Anamofa	57
Grammar Translation Method (GTM) in Translation Learning Process by Using the Antonym-synonym Strategy Through Individual Technique Diah Puji Nali Brata	58
Impact of Experiential Marketing on Customers Repurchase Intention in Gempita Café Yossie Rossanty	59
Implementation of PMBOK5th Standard to Improve the Performance and Competitiveness of Contractor Companies Miftahul Huda	60
Investigating Factors Affecting Halal Foodpreneur Orientation Muhammad Dharma Tuah Putra Nasution	61
Job Satisfaction: Determinant and Effect of Interaction with Spirituality to Lecturer Performance Sardiyo	62
Markov Chain Model in Measuring Brand Switching of Cooking Oil Muhammad Dharma Tuah Putra Nasution	63
Nusa Penida as Renewable Energy Tour Village in Indonesia Tasdik Darmana	64
Principles of Fatwa Amongst Credentials In Negeri Sembilan Ahmad Azlan Bin Raihan	65
Role of Social Media In The 21st Century Education Dr Azizi Bin Jaafar	66



Strategy For Improving Effectiveness of Green Open Space Management Through Tree Identification Application Dewi Gartika	67
Students' Perception Towards Retail Management Skills Through Managing Business Simulation At Centre Of Retail Excellence (Core) Noraini Hashim	68
The Influence of e-commerce Implementation on Small and Medium Enterprises (SMEs) Development in Palembang Maulana	69
The Influence of Portfolio Assessment on Early Childhood Student's environmental Concerncharacter R. Sihadi Darmoduhardjo	70
The Valuation of Non-Performing Loans Muslih	71



START UP DATA MINING WITH SYSTEM CLOUD COMPUTING (Case Study of Education Office of Bengkulu Province)

Feri Hari Utami¹, Tengku Mohd Diansyah², Yupianti³, Venny Novita Sari⁴, Dodi Siregar⁵

1,3,4 University Dehasen Bengkulu,
134 Faculty science computer, Technic Informatics Jl. Meranti Raya No.42 Sawah Lebar Bengkulu.
2,5 University Harapan Medan, Faculty Technic and Computer,
2,5 Technic Infotmatics Jl. HM Joni No 70 C Medan

ABSTRACT

Current Start up technology is a technology which will become the trendsetter in the future so that technology will create a concept in which the data would be mining by using the cloud computing system technology or cloud technology, so that the system will be digitally and safely on the cloud. From the research, start up technology will make the filling work become easier and so the using of the mobile technology, and the large data mining will be processed by using cloud computing technology, so it can be processed anytime and anywhere

TOPIC:
Engineering & Technology

