# 2018 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME 2018)

Balikpapan, Indonesia 10 – 11 December 2018



IEEE Catalog Number: CI ISBN: 97

CFP18R13-POD 978-1-5386-7726-1

# Copyright © 2018 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP18R13-POD

 ISBN (Print-On-Demand):
 978-1-5386-7726-1

 ISBN (Online):
 978-1-5386-7725-4

#### **Additional Copies of This Publication Are Available From:**

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



## 2018 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME)

### Parallel Session 1A

	Modelling of Smart Airborne Wind turbine System with Neural Network K Sivaraman (Sri Sairam Engineering College, India)	. 1
	A neural network approach towards development of computational model for performance estimation of commercial lithium ion batteries Siddharth Aphale (K. K. Wagh Institute of Engineering Education & Research, India), Jayesh Tope (K. K. Wagh Institute of Engineering Education & Research, India), Niraj Gharte (K. K. Wagh Institute of Engineering Education & Research, India), Soham Lulla (K K Wagh Institute of Engineering Education & Research, India), Aniket Sahasrabuddhe (K. K. Wagh Institute of Engineering Education & Research, India), Jaydeep Shah (University of Pune, India)	
	Up grading Biodiesel from Low Grade Used Cooking Oil by Hydrodeoxygenation  Joni Prasetyo (BPPT, Indonesia), SD Sumbogo Murti (BPPT, Indonesia), Atti Sholihah (BPPT, Indonesia), Asmi Rima Juwita (BPPT, Indonesia), Meyly Ekawati Thebora (Jambi University, Indonesia)	N/A
	Optimization of Output Parameters of The Horizontal Tidal Turbine by Modifying Its Meridional Section  W. M. Rumaherang (Universitas Pattimura, Indonesia)	18
	Study of The Relationship Between Attitudes, Knowledge and Availability Of Infrastructure to Waste Management Behavior (Case Study: Waste Management Of The Kalimantan Institute of Technology)	
	Muhammad Ma'arij Harfadli (Institut Teknologi Kalimantan, Indonesia), Cut Keumala Banaget (Institut Teknologi Kalimantan, Indonesia)	N/A
	Study of Co-fired Empty Fruit Bunch with Coal in Drop Tube Furnace Endah Nugraha (Institut Teknologi Sepuluh Nopember, Indonesia), S Suyanto (Lecturer, Indonesia), Ridho Hantoro (Institut Teknologi Sepuluh Nopember, Indonesia), Detak Pratama (Institut Teknologi Sepuluh Nopember, Indonesia)	N/A
Parallel Ses	esion 1-B	
	The effect of addition of Organic Inhibitors in the form of Bintaro Leaves (Cerbera manghas) on API 5L Steel Corrosion Rate in 0,1 M NaCl Environment  Yunita Triana (Kalimantan Institute of Technology, Indonesia), Rachmad Sulaksono Prabowo (Kalimantan Institute of Technology, Indonesia), Putri Rahajeng Utami (Kalimantan Institute of Technology, Indonesia), Yudha Rizky Dharmawan (Kalimantan Institute of Technology, Indonesia), Putri Rahajeng Utami (Kalimantan Institute of Technology, Indonesia), Putri Rahajeng Utami (Kalimantan Institute of Technology, Indonesia), Putri Rahajeng Utami (Kalimantan Institute of Technology, Indonesia)	N/A
	Indonesia), Sulistjono Sulistjono (Kalimantan Institute of Technology, Indonesia)  The Effect Of Addition Organic Inhibitor Bintaro Fruit Extract (Cerbera manghas) To Inhibition Eficiency And Corrosion Rate On JIS G3131 Steel In 0,1 M H2SO4 Environment	N/A
	Yunita Triana (Kalimantan Institute of Technology, Indonesia), Rachmad Sulaksono Prabowo (Kalimantan Institute of Technology, Indonesia), Sulistjono Sulistjono (Kalimantan Institute of Technology, Indonesia)	N/A
	A Flood Forecasting Model Based on Synthetic Unit Hydrograph of ITS-2  I Gede Tunas (Universitas Tadulako, Indonesia), Nadjadji Anwar (Institut Teknologi Sepuluh Nopember (ITS), Indonesia)	42
	Modify Multistep Difference Transform Method for Solving Jamming Model in Lorentz System	
	Hartono Hartono (Yogyakarta State University, Indonesia), Agus Maman Abadi (Yogyakarta State University, Indonesia), Fitriana Saptaningtyas (Yogyakarta State University, Indonesia)	N/A
	Imaging Conceptual Model Andesite Distribution Using Geoelectric and VLF Methods Febrian Sastrawan (Institut Teknologi Kalimantan, Indonesia)	51
	Mechanical Properties and Morphological Characterisation of Waste Natural Fiber Composites Reinforced Polyester: Gelam (Melaleuca Leucadendra)	
	Andromeda Laksono (Institut Teknologi Kalimantan, Indonesia), Ika Ismail (Institut Teknologi Kalimantan & Universitas Indonesia, Indonesia), Sulistjono Sulistjono (Kalimantan Institute of Technology, Indonesia), Cahyaningtyas Ningrum (Kalimantan Institute of Technology, Indonesia)	N/A
Parallel Ses	esion 1-C	
	Testing Model: Effect of Work Behavior and Work Target on Lecturer Performance	
	Haeruddin Haeruddin (Universitas Mulawarman, Indonesia), Edy Budiman (Universitas Mulawarman, Indonesia)	N/A
	Environmental Impact Risk Analysis on Production Process Of PT X  Andi Nurwahidah (Hasanuddin University, Indonesia), Mulyadi Mulyadi, ir (Hasanuddin University, Indonesia), Nilda Nilda (Hasanuddin University, Indonesia)	N/A
	An Evaluation Quality of Service of the Borneo Biodiversity Informasi System  Novianti Puspitasari (Universitas Mulawarman, Indonesia), Edy Budiman (Universitas Mulawarman, Indonesia), Faza Alameka (Universitas Mulawarman, Indonesia)	N/A
	Mobile Learning App to Improve Students Learning Outcomes  Haeruddin Haeruddin (Universitas Mulawarman, Indonesia), Andi Tejawati (Universitas Mulawarman, Indonesia), Edy Budiman (Universitas Mulawarman, Indonesia)	N/A

	Augmented Reality for Faculties Office and Basic Programming Laboratory Peripheral  Muhammad Firdaus (Universitas Mulawarman, Indonesia), Edy Budiman (Universitas Mulawarman, Indonesia), Joan Angelina Widians (Universitas Mulawarman, Indonesia), Noval Sinaga (Universitas Mulawarman, Indonesia), Sofiansyah Fadli (STMIK Lombok, Indonesia), Faza Alameka (Universitas Mulawarman, Indonesia)	N/A
	Multi-object Detection on The Illumination Changes Using Omnidirectional Camera Ilham A. E. Zaeni (State University of Malang, Indonesia), Siti Sendari (Universitas Negeri Malang, Indonesia), Dyah Lestari (Universitas Negeri Malang, Indonesia), Yogi D. Mahandi (Institut Teknologi Sepuluh Nopember, Indonesia), Bintang Utama (Universitas Negeri Malang,	
	Indonesia)	87
Parallel Ses	esion 1-D	
	Paperless Human Resource Management System of Universitas Yapis Papua Staffing  Muhdi B Hi Ibrahim (University of Yapis Papua, Indonesia), Mohammad Aldrin Akbar (University of Yapis Papua, Indonesia), Muhammad  Firdaus (Universitas Mulawarman, Indonesia), Sitti Nur Alam (STIMIK Sepuluh Nopember, Indonesia), Muh Jamil (Universitas Mulawarman  & Departemen Of Information Technology And Computer Science, Indonesia), Edy Budiman (Universitas Mulawarman, Indonesia)	N/A
	Modeling Academic Business Process for Balikpapan State Polytechnic using BPMN  Lovinta Happy Atrinawati (Kalimantan Institute of Technology, Indonesia), Gianda Almyra Lois (Kalimantan Institute of Technology, Indonesia)	N/A
	Highway Performance Analysis Caused By Road Distress Using Microscopic Simulation Program (Case Study: Samarinda-Bontang Highway on KM 3-KM8)	
	Ganang Albryansah (Institut Teknologi Kalimantan, Indonesia), Muhammad Hadid (Institut Teknologi Kalimantan, Indonesia)	N/A
	The Influence of User Generation Differences on Individual Performance in Using Information Technology  Putut Pamilih Widagdo (Mulawarman University, Indonesia), Tony Dwi Susanto (ITS, Indonesia), Hario Jati Setyadi (Mulawarman University, Indonesia), Reza Wardhana (Mulawarman University, Indonesia), Medi Taruk (Mulawarman University, Indonesia), Herman Santoso  Pakpahan (Universitas Mulawarman, Indonesia)	N/A
	Determine of Transmission Usage Allocation for the Bilateral Energy Market: A Method of the Industry Costumer Syarifuddin Nojeng (Universitas Muslim Indonesia, Indonesia)	N/A
	Investigating the Future of Angkot as Public Transportation in Surabaya Using System Dynamics Framework Sayekti Suryawan (Institut Teknologi Sepuluh Nopember, Indonesia), Erma Suryani (Institut Teknologi Sepuluh Nopember, Indonesia)	N/A
Parallel Ses	ssion 2-A	
	Continuous Wave Diffuse Optical Tomography for Imaging Defect in Agricultural	
	Wahdiyatun Nisa (Kalimantan Institute of Technology, Indonesia), Vicky Mudeng (Kalimantan Institute of Technology, Indonesia), Nurkholis Alfian (Kalimantan Institute of Technology, Indonesia), Okcy Saputra (Kalimantan Institute of Technology, Indonesia)	123
	Depth-wise Separable Convolution for Real-time Facial Expression Recognition  Adu Baffour (University of Electronic Science and Technology of China, P.R. China), Jiandong Guo (University of Electronic Science and Technology of China, P.R. China), Goodlet Kusi (University Electronic Science and Technology, P.R. China)	N/A
	Designing a neural network for vehicle type classification using extended Haar features  Boby Mugi Pratama (Indonesia Defense University, Indonesia), Rudy Gultom (Indonesia Defense University & Ministry of Defense of Republic of Indonesia, Indonesia), Asep Supriyadi (Indonesia Defense University & National Agency for Combating Terrorism, Indonesia)	134
	Identification of Heart Disease With Iridology Using Backpropagation Neural Network  Leonardus Sandy Ade Putra (University of Diponegoro, Indonesia), R. Rizal Isnanto (Diponegoro University, Indonesia), Aris Triwiyatno (Diponegoro University, Indonesia), Vincentius Abdi Gunawan (University of Palangka Raya, Indonesia)	138
	Mathematical Modeling of Pharmacokinetics of Metformin using Oral Glucose Tolerance Test for the Treatment in Type 2 Diabetes Mellitus  Agus Kartono, AK (Bogor Agricultural University (IPB), Indonesia)	N/A
	An Efficient Rate Parameters Estimation of Modified Oral Glucose Minimal Model from Oral Glucose Tolerance Tests using Gravitational Search Algorithm	N1/A
	Agus Kartono, AK (Bogor Agricultural University (IPB), Indonesia)  Classification of Hotspot in East Kalimantan Forest with VIIRS Sensors using Support Vector Machine	N/A
	Medi Taruk (Mulawarman University, Indonesia), Islamiyah Islamiyah (Mulawarman University, Indonesia), Nataniel Dengen (Mulawarman University, Indonesia), Eny Maria (State Polytechnic Agricultural of Samarinda, Indonesia)	153
	Wireless Health Monitoring System  Wordh UI Hasan (North South University, Bangladesh), Mohammad Khaja (North South University, Bangladesh), Saif Ahmed (North South University, Bangladesh), Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)	158
Parallel Ses	esion 2-B	
	Failover Scenario on Power Shutdown of Wireless Sensor Network Node	
	Adharul Muttaqin (Universitas Brawijaya, Indonesia), Rudy Yuwono (University of Brawijaya, Indonesia), Akhmad Zainuri (Brawijaya University, Indonesia), Nararya Andika Sujarwo (Universitas Brawijaya, Indonesia)	164

	Real Time Indoor Air Quality Monitoring Using Internet of Things at University	
	Muladi Muladi (State University of Malang & Universitas Negeri Malang, Indonesia), Siti Sendari (Universitas Negeri Malang, Indonesia), Triyanna Widiyaningtyas (Universitas Negeri Malang, Indonesia)	169
	Integrating Scheduling System for Managing A Huge Number of Electrical Devices	
	Siti Sendari (Universitas Negeri Malang, Indonesia), Muladi Muladi (State University of Malang & Universitas Negeri Malang, Indonesia), Hakkun Elmunsyah (Universitas Negeri Malang, Indonesia), Sigit Haq (State University Of Malang, Indonesia)	174
	Circular Waveguide Band Pass Filter Composed of Artificial Dielectric Resonators for Transverse Electric Propagation Mode	
	Barokatun Hasanah (Kalimantan Institute of Technology, Indonesia), Vicky Mudeng (Kalimantan Institute of Technology, Indonesia), Ade Renaldy Andhara (Kalimantan Institute of Technology, Indonesia), Firilia Filiana (Institut Teknologi Kalimantan, Indonesia)	179
	APPLICATION OF REMOTE SENSING MONITORING OF LIMESTONE MINING EXPLOITATION IN MOUNTAIN KENDENG (Case Study: Biora - Rembang Regency)	
	Fifing Fifing (Indonesia Defense University, Indonesia), Rudy Gultom (Indonesia Defense University & Ministry of Defense of Republic of Indonesia, Indonesia), Garnis Anggraeni (University of Defense, Indonesia), Boby Mugi Pratama (Indonesia Defense University, Indonesia)	184
	Software Defined Radio for Education: Multimode Transceiver and Spectrum Analyzer with HackRF One	
	Ihan Martoyo (Universitas Pelita Harapan, Indonesia), Herman Kanalebe (Universitas Pelita Harapan, Indonesia), Henri Uranus (University of Pelita Harapan, Indonesia), Marincan Pardede (Universitas Pelita Harapan, Indonesia)	188
	A comparative study of hierarchical-based routing protocol for heterogeneous sensor node in forest	
	Reza Wardhana (Mulawarman University, Indonesia), Gubtha Mahendra Putra (Mulawarman University, Indonesia), Hario Jati Setyadi (Mulawarman University, Indonesia), Muhammad Firdaus (Universitas Mulawarman, Indonesia), Putut Pamilih Widagdo (Mulawarman University, Indonesia), Herman Santoso Pakpahan (Universitas Mulawarman, Indonesia)	193
	Smart Monitoring of Rice Logistic Employing Internet of Things Network	
	Suryani Alifah (Unissula University, Indonesia), Gunawan Gunawan (Universitas Islam Sultan Agung, Indonesia), Moch Taufik (Universitas Islam Sultan Agung, Indonesia)	199
Danallal Caa	arian 2.0	
Parallel Ses	SION 2-C	
	Performance Optimazation Of 150 KV Transmission Tower In Jeneponto Steam Power Plant Using GIS Analysis  Mochammad Apriyadi Hadi Sirad (University of Patria Artha, Indonesia), Syamsumarlin Taha (University of Patria Artha, Indonesia)	203
	Air Pollution Influences on 150 kV Transmission Insulators Performance	
	Joko Hartono (PT. PLN (Persero) Research Institute, Indonesia), Buyung Sofiarto Munir (Bina Nusantara University & PT PLN (PERSERO), Indonesia), Brian Bramantyo S.D.A. Harsono (PLN Research Institute, Indonesia), Dhandis R. Jintaka (PT. PLN (Persero) Research Institute, Indonesia), Kemas Muhammad Tofani (PT. PLN (persero), Indonesia)	207
	Multi-grained Household Load Profile Analysis using Smart Meter Data: The Case of Indonesia	
	Angreine Kewo (Technical University of Denmark, Denmark), Pinrolinvic Manembu (Sam Ratulangi University, Indonesia), Xiufeng Liu (Technical University of Denmark, Denmark), Per Sieverts Nielsen (Technical University of Denmark, Denmark)	213
	Power Grid Capacity Forecasting Based on Electrical Energy Requirements Considering Macroeconomic Factor in Malang Regency	
	Ilham Taufiqi (Universitas Negeri Malang, Indonesia), Yuni Rahmawati (Universitas Negeri Malang, Indonesia), AN Afandi (Universitas Negeri Malang, Indonesia & Kumamoto University, Japan)	218
	Microcontroller Serial Communication to Analyze Bit Characters	
	Andhika Giyantara (Kalimantan Institute of Technology, Indonesia), Vicky Mudeng (Kalimantan Institute of Technology, Indonesia), Huda Natiand (Kalimantan Institute of Technologhy, Indonesia), Muhammad Izzudin (Kalimantan Institute of Technologhy, Indonesia)	223
	Application of Firefly algorithm optimization in distribution generation location and sizing using Renewable Energy for a real case study in Halhul city of Palestine	
	Mahmoud Abu Zalata, ENG (Institut Teknologi Sepuluh Nopember - ITS, Indonesia), Imam Robandi (Sepuluh November Institute of Technology, Indonesia), Dedet Riawan (Institut Teknologi Sepuluh Nopember, Indonesia)	228
	Solar Water Pumping System for Paddy-field Irrigation in Dusun Manurungnge, Abbanuangnge Village, Wajo, South Sulawesi, Indonesia Siti Nurlaila Indriani (Royal Melbourne Institute of Technology University, Australia)	233
	Feasibility Analysis of Grid Connected PV System Installation under Indonesian Feed-in Tariff Policy Syafii Syafii (University of Andalas, Indonesia), Novizon Novizon (Universitas Andalas, Indonesia), Givan Hidayat (Universitas Andalas & Padang, Indonesia), Andhika Giyantara (Kalimantan Institute of Technology, Indonesia), Zulwisli Zulwisli (Universitas Negeri Padang, Indonesia)	N/A
Parallel Ses	esion 2-D	
	Production of Briquettes to Utilize Woody Cutting Waste at Universitas Internasional Semen Indonesia	
	Qurrotin Ayunina (Universitas Internasional Semen Indonesia, Indonesia), Ufafa Anggarini (Awikoen Street Number G-235 Perum PT Semen Indonesia & Universitas Internasional Semen Indonesia, Indonesia), Kuntum Ummatin (Universitas Internasional Semen Indonesia & PT. Semen Indonesia (Persero) Tbk, Indonesia)	N/A
	Effects of Bio-char Amendment on Stabilization of Dissolved Organic Carbon in the Soil of Oil Palm Plantation	
	Ira Prabasari (Universitas Jambi & Engineering Faculty, Indonesia), Damris Muhammad (Jambi University, Indonesia)	N/A

	Utilization of Hazardous Waste Fly Ash Coal from Karlangau Thermal Power Plant as Substitution of Portland Cement on Concrete	
	Intan Dwi Wahyu Setyo Rini (Institut Teknologi Kalimantan, Indonesia), Umi Sholikah (Institut Teknologi Kalimantan, Indonesia), Hamzah Fansuri (Institute of Technology Sepuluh Nopember, Indonesia), Adrian Gunawan (Kalimantan Institute of Technology, Indonesia), Andika Ade Indra Saputra (Institut Teknologi Kalimantan, Indonesia)	N/A
	Proton Exchange Membrane-Based Biopolymer Chitosan From Shrimp Shell For Direct Methanol Fuel Cell Application	
	Mochammad Purwanto (Institut Teknologi Kalimantan, Indonesia), Roy Krisna (Institut Teknologi Kalimantan, Indonesia), Rachmad	
	Yogaswara (Institut Teknologi Kalimantan, Indonesia), Memik Pusfitasari (Institut Teknologi Kalimantan, Indonesia), Lukman Atmaja (Institut Teknologi Sepuluh Nopember, Indonesia)	N/A
	Balikpapan Soil Development And Shrinkage Behavior That Has Been Stabilized With Additive Helmut	
	Mochammad Purwanto (Institut Teknologi Kalimantan, Indonesia), Mohamad Muntaha (Institut Teknologi Sepuluh Nopember & Institut Teknologi Kalimantan, Indonesia), Akmal Syuhada (Institut Teknologi Kalimantan, Indonesia)	N/A
	Syzygium oleina as bioelectrical using Plant-Microbial Fuel Cell Karina Berliana Mulyanto (Institut Teknologi Kalimantan, Indonesia), Umi Sholikah (Institut Teknologi Kalimantan, Indonesia), Nurkholis Alfian (Institut Teknologi Kalimantan, Indonesia), Mela Aurelia (Institut Teknologi Kalimantan, Indonesia)	266
	Improve Performance Electrical Power System on Mahakam System Using Static Var Compensator Rizky Susilo, RAS (State Polytechnic of Malang, Indonesia), Isa Mahfudi, IM (State Polytechnic of Malang & Company, Indonesia)	270
	Real-time Vehicle License Plate Detection by Using Convolutional Neural Network Algorithm with Tensorflow Imam Taufiq (STMIK AKAKOM, Indonesia), Bambang Purnomosidi Dwi Putranto (STMIK AKAKOM Yogyakarta, Indonesia), Muhammad Agung Nugroho (STMIK AKAKOM Yogyakarta, Indonesia), Akhmad Dahlan (Universitas Amikom Yogyakarta, Indonesia)	275
Parallel Ses	ssion 3-A	
	Ensemble Time Series Modified Generalized Regression Neural Network Rainfall Forecasting Rezzy Eko Caraka (The National University of Malaysia, Indonesia), Toni Toharudin (Universitas Padjadjaran, Indonesia)	280
	Towards optimal search: A modified Secant method for Efficient Search in a Big Database	
	Muhammad Nomani Kabir (Senior Lecturer, University Malaysia Pahang, Malaysia), Yasser M Alginahi (University of Windsor, Canada), Jahan Ali (Student, University Malaysia Pahang, Malaysia), Hocine Benseghir (University Malaysia Pahang, Malaysia)	286
	Modeling and simulation of a pedestrian-evacuation model during toxic cloud releases	
	Hocine Benseghir (University Malaysia Pahang, Malaysia), Mohd Fadzil bin Mohd Idris (University Malaysia Pahang, Malaysia), Abdullah Ibrahim (University Malaysia Pahang, Malaysia), Muhammad Nomani Kabir (Senior Lecturer, University Malaysia Pahang, Malaysia)	291
	Web-based tool for Registration and Recapitulation of Eligibility Certificates at East Nusa Tenggara Marine Affairs and Fisheries Department	
	Daniel Silli Bataona (State Polytechnic of Kupang, Indonesia), Gloria Christiana Manulangga (State Polytechnic of Kupang, Indonesia), Robinson Wadu (State Polytechnic of Kupang, Indonesia), Petrisia Sudarmadji (State Polytechnic of Kupang, Indonesia)	295
	Exploit Multi Layer Deep Learning to Handle Users and Product Sparse Data for E-commerce Recommender System  Muh Hanafi (Universitas Amikom Yogyakarta, Indonesia)	N/A
Parallel Ses	esion 3 R	
i arallel oca	3001 0-0	
	Neutronic Study of Small Modular Reactor Thorium Based as a Model of Nuclear Power Plant for Remote Area  Muhamad Irfan (Indonesia Defense University, Bogor, Indonesia, Indonesia), Zaki Su'ud (Bandung Institute of Technology, Indonesia), Dwi Irwanto (Bandung Institute of Technology, Indonesia), Romie Bura (Indonesia Defense University, Bogor, Indonesia)	207
		507
	Lightning Activity Evaluation in South Sumatera Region  Kemas Muhammad Tofani (PT. PLN (persero), Indonesia), Buyung Sofiarto Munir (Bina Nusantara University & PT PLN (PERSERO),	
	Indonesia), Brian Bramantyo S.D.A. Harsono (PLN Research Institute, Indonesia)	313
	Integration of Intermittent Renewable Energy Source (IRES) to The West Kalimantan Grid	
	Dhandis R. Jintaka (PT. PLN (Persero) Research Institute, Indonesia), Handrea Bernando Tambunan (PLN Research Institute, Indonesia), Joko Hartono (PT. PLN (Persero) Research Institute, Indonesia), Brian Bramantyo S.D.A. Harsono (PLN Research Institute, Indonesia), Kemas Muhammad Tofani (PT. PLN (persero), Indonesia), Buyung Sofiarto Munir (Bina Nusantara University & PT PLN (PERSERO), Indonesia)	317
	A Comprehensive Study of Alternating Current Voltage Sensor Using Rectifier and Operational Amplifier	
	Vicky Mudeng (Kalimantan Institute of Technology, Indonesia), Yun Kusuma Priyanto (Kalimantan Institute of Technology & Kalimantan Institute of Technology, Indonesia), Andhika Giyantara (Kalimantan Institute of Technology, Indonesia), Ali Fahdian (Kalimantan Institute of Technology, Indonesia), Bima Wahyu Aditya Achmadi (Kalimantan Institute of Technology, Indonesia)	321
	Comparison of Multiplication Algorithms Based on FPGA	
	Ferry Wahyu Wibowo (Universitas Amikom Yogyakarta, Indonesia)	326

#### Parallel Session 3-C

Converged Transparent Satellite For LTE A Evaluation State-of-the-Art Layer 2 Method	
Hillman Akhyar Damanik (Budi Luhur University, Indonesia), Merry Anggraeni (Budi Luhur University, Indonesia), Tomi Defisa (Budi Luhur University, Indonesia)	N/A
An Ardiuno-Simulink Based ECG Waveform Generator  Arif Widodo (Universitas Negeri Surabaya, Indonesia), Pradini Puspitaningayu (Universitas Negeri Surabaya, Indonesia), Lilik Anifah (Universitas Negeri Surabaya, Indonesia), Rifqi Firmansyah (Universitas Negeri Surabaya, Indonesia)	338
Design Of Radial Basis Function Network And State-Dependent LQT For Path Planning And Tracking Of Autonomous Underwater Vehicle (AUV) To Intercept A Moving Target	
Thorikul Huda (Institut Teknologi Kalimantan, Indonesia), Rahma Nur Amalia (Politeknik Negeri Malang, Indonesia), Katjuk Astrowulan (Institut Teknologi Sepuluh Nopember, Indonesia), Aries Sulisetyono (Institut Teknologi Sepuluh Nopember (ITS), Indonesia)	343
Effect of Noise and Room Temperature on Employee Productivity in Mechanical Maintenance Workshop PT. Semen Bosowa Maros  Arminas Arminas (Polytechnic ATI of Makassar, Indonesia), Andi Nurwahidah (Hasanuddin University, Indonesia), Muhammad Ahdan (Polytechnic ATI of Makassar, Indonesia)	N/A
The Power Saver Development on Android Oreo Smartphone Based on App Categories which Accomodate User Preference  Muhammad 'Aizul Fikar (Telkom University, Indonesia), Dodi Wisaksono Sudiharto (Telkom University, Indonesia), Fazmah Arif Yulianto (Telkom University, Indonesia)	355