

Paralel Session

Wednesday, 11-Apr-18			
Rajawali Room			
A. Geo-Electromagnetism			Session Chair: Suaidi Ahadi
1	08.30-08.45	Earth Magnetic Fields Evolution over Nusa Tenggara Region from Declination and Inclination Changes on Lombok Geomagnetic Observatory	Teti Zubaidah, Misbahuddin, Bulkis Kanata, Paniran, Rosmaliati, Made Sutha Yadnya and Susilawati Riskia
2	08.45-09.00	Earth Magnetic Fields Evolution over Nusa Tenggara Region from Intensity and Spectral Density Changes on Lombok Geomagnetic Observatory	Bulkis Kanata, Teti Zubaidah, Paniran, Abdullah Zainuddin, Cipta Ramadhani, Giri Wahyu Wiriasto, LAS Irfan Akbar, and Susilawati Riskia
3	09.00-09.15	Analysis of Preseismic Event Using Seismo-Electro-Magnetic Data (Earthquake Case Study In Megathrust Sumatra Region August-October 2016)	Fakhrul Islam Masruri, Ramadhan Priadi Bayu Merdeka Tri Fristiyan Nanda and Suaidi Ahadi
4	09.15-09.30	Correlating Ground-Penetrating Radar Data with Geotechnical Data: case study at ITB engineering site, Bandung, Indonesia	Wahyudi Widyatmoko Parnadi, Warsa Warsa, Agus Laesanpura, Rizandi Gemal Parnadi and Hisafumi Asaue
5	09.30-09.45	Data Integration and Recovery of Geomagnetic Historical Data Toward Improvement of Public Services	Sunaryo Hasan, Zulkarnain Adnan, Untung Merdijianto and Jaumil Achyar D. Situmeang
6	09.45-10.00	The Earthquake Precursor Monitoring Use Magnetism Data for Earthquake Prediction Preliminary Study (Case Study: Sumatra Island and its Vicinity)	Untung Merdijanto, Jaya Murjaya, Suaidi Ahadi and Syirojudin Muhamad
B. Energy & Transportation			Session Chair: Atmanto Heru Wibowo
1	10.15-10.30	Feasibility Study for Renewable Energy Based Micro Grid System for Kabaena Island South East Sulawesi	Mansur Mansur, Salama Manjang, Ardiaty Arief and Yusri Syam Akil
2	10.30-10.45	Sunlight Intensity Measurement Device with Solar Tracking System	I Gede Eka Wiantara Putra, I Ketut Putu Suniantara and I Nyoman Satya Kumara
3	10.45-11.00	Effect of the Magnetic Properties on Generator Characteristic and Power Density	Pudji Irasari, Muhammad Fathul Hikmawan, Muhammad Kasim, Syaeful Alam, Puji Widiyanto and Hilman Syaeful Alam
4	11.00-11.15	No-Load Analysis of Generator Permanent Magnet for Small Wind Turbine	Piala Simanjuntak
5	11.15-11.30	Validation of Performance Testing Procedure for Stand-Alone Photovoltaic Systems	Oo Abdul Rosyid
6	11.30-11.45	Synthesis and UV/Vis-spectra characteristic of Cu (II), Fe (II), Zn (II) 5,15- Diphenyl Porphyrin	Atmanto Heru Wibowo, Metin Yuliaty and Abu Masykur

Wednesday, 11-Apr-18			
Gelatik Room			
		C. Telecommunication A	Session Chair: Rudy Yuwono
1	08.30-08.45	Optimization of Grid Antenna 2.4 GHz using Grid Reflector and Yagi Antenna's Feed Modification	Cahyo Muvianto, Pahrurrozi Pahrurrozi, Suthami Ariessaputra and Sareh Malekpour
2	08.45-09.00	LiFi Communication Attack Taxonomy: A Literature Review	Erika Ramadhani and Ahmad Ashari
3	09.00-09.15	Beamforming Using Dolph-Chebyshev and Taylor Method on Phased Array Antenna Based on Software Defined Radio	Puji Handayani, Gamantyo Hendratoro, Titiek Surjani and Abdullah Erawan
4	09.15-09.30	A Design of Indoor RTLS by Use of the UWB-WSN based Two Reference Points	Ardiansyah Musa, Hyojeong Han, Gde Dharma Nugraha, Deokjai Choi, Seungho Seo and Juseok Kim
5	09.30-09.45	Rectenna (Rectifier Antenna) Arrangement Impact to Its Output Voltage	Rudy Yuwono, Tequitha Layyinatul Qalbi, Aisah and Raihan T Putra
6	09.45-10.00	Design of Switch Operation Mode Rectenna Based Microcontroller Atmega328 on FM Radio 88-108MHz	Rudy Yuwono, Gaguk Asmungi, Gunawarman and Endah Budi Purnomowati
		D. Telecommunication B	Session Chair: M Syamsu Iqbal
1	10.15-10.30	2,4 GHz Textile Wearable Antenna Design for Positioning System	Reeves, Cramer, Suwasti Broto, Nifty Fath, Indra Riyanto and Josaphat Tetuko Sri Sumantyo
2	10.30-10.45	Two Dual-Feed U-Slot Antennas in the Metal-framed Smartphone for 2 × 2 LTE LB and 4 × 4 LTE M/ HB MIMO Operations	Imee Ristika Rahmi Barani, Song-En Lin, Kin-Lu Wong and Wei-Yu Li
3	10.45-11.00	Discrete Cosine Transform and Pulse Amplitude Modulation for Visible Light Communication with Unequally Powered Multiple Access	Dwi Astharini and Dadang Gunawan
4	11.00-11.15	Resonant Frequency Analysis for Rectangular Waveguide Loaded with Anisotropic Dielectric Material Using 3D-FDTD Method	Mohammad Sigit Arifianto, Maulana Randa, Cahyo Mustiko Okta Muvianto and Achmad Munir
5	11.15-11.30	Proximity-Coupled Multiband Substrate Integrated Waveguide Antenna with Defected Ground Structure	Chairunnisa, Mia Maria Ulfah, Muhamad Syamsu Iqbal and Achmad Munir
6	11.30-11.45	Analysis and Design of Wireless Power Transfer	Syiska Yana, Emil Sinaga and Fahmi Fahmi

Wednesday, 11-Apr-18			
Nuri 2 Room			
		E. Power System	Session Chair : Sabhan Kanata
1	08.30-08.45	Strategy for Optimal Capacitor Placement and Economic Analysis for Reactive Power Compensation at PT Semen Bosowa Maros	Syahrul Mustafa, Ardiaty Arief and Muhammad Bachtiar Nappu
2	08.45-09.00	Characterization of DC Arc Fault Currents in Low Voltage Residential Electricity	Taufik Taufik and Rosmaliati Rosmaliati
3	09.00-09.15	Tensile Strength and Bending Analysis in Producing Composites by Using Vacuum Resin Infusion (VARI) Method For High-Voltage Insulator Application,	Salman Salman and Agus Dwi Catur
4	09.15-09.30	Optimal Cable Arrangement for Minimizing Electromagnetic Interference in Oil and Gas Industry	Muhammad Akmal Ayob, Febby Purnama Mardin, Hazrul Izwan Hussien, Mohammad Akmal Abu Taib, M Faudzi M Yasir, Mostafa Sayahkarajy, Eko Supriyanto
5	09.30-09.45	Sensorless Optimum Power Extraction For Small Scale Stand Alone Wind Turbine Based on Fuzzy Controller,	Ratna Ika Putri, M Rifa'I, Ferdian Ronilaya, Lie Jasa, Ardyono Priyadi and Mauridhi Hery Purnomo
6	09.45-10.00	Optimization of Reactive Power and Voltage Control in Power System Using Hybrid Artificial Neural Network and Particle Swarm Optimization	Sabhan Kanata, Gibson H. Sianipar and Nur Ulfa Maulidevi
		F. Electronic, Control & Instrumentation	Session Chair : I N Wahyu Satiawan
1	10.15-10.30	A New Modulation Technique for A Three-Cell Single-Phase CHB Inverter with Unequal DC-Link Voltage for Improving Output Voltage Quality	Ida Bagus Fery Citarsa, I Nyoman Wahyu Satiawan and Supriono
2	10.30-10.45	Preliminary Sandstone Reservoir Depth Prediction With Pre-Processing Data Using Principle Component Analysis (PCA) and Partial Least Square (PLS) Based on Well Logging Data Attribute,	Erna Utami, Alfin Sahrin, Rizki R.F and M. H. Purnomo
3	10.45-11.00	A High Voltage Gain DC-DC Converter Design based on Charge Pump Circuit Configuration with a Voltage Controller	Channareth Srun, Faizal Arya Samman and Rhiza S. Sadjad
4	11.00-11.15	Cascade Control With PID-PSO Method On The Stabilizer Unit	Erna Utami, Alfin Sahrin, G R Utomo and Mauridhi Hery Purnomo
5	11.15-11.30	Variable Step-Size Decrement Window-Size Scanning-based MPPT Algorithms for Thermoelectric Generator Systems	Faizal Arya Samman, Wahyu Haryadi Piarah and Zuryati Djafar
6	11.30-11.45	Symmetrical Optimum of Cascaded PI-2DOF in A Precision Position Control Using A Ladder-Secondary Double-Sided Linear Induction Motor	Mochammad Rusli, Muhammad Aziz Muslim, Ing Wardana and Mochammad Agus Choiron

Wednesday, 11-Apr-18			
Nuri 1 Room			
		G. Biomedical & Environment	Session Chair : Jauhar Fajrin
1	08.30-08.45	Development and Characterization of a Multispectral Reflectance Imaging System Applied to Dermatology	Iwan C. Setiadi and Aulia M.T. Nasution
2	08.45-09.00	Antimicrobial Activity and Mode of Action Against Pathogenic Bacteria of the Mangrove Endophytic Fungus BAR1.5	Alif Kholifatul Jannah, Desniar, and Kustiariyah Tarman
3	09.00-09.15	Variation of the distance and absorbing Filter in Output Dose from Electromagnetic X-Ray Radiation with Cs-137 Source in Calibration Process of Thermoluminescence Dosimeter TLD-700	Wira Bahari Nurdin, Aswad and Khaerul Bariah
4	09.15-09.30	Scenario for Optimization of Municipal Solid Waste Treatment Using Mixture Design	Christia Meidiana, I Made Wahyu and Ismu Rini Dwi Ari
5	09.30-09.45	Simple Biosensor for Environment Monitoring Based on Arduino Uno,	Lazuardi Umar, Rahmondia Nanda Setiadi, Yanuar Hamzah and Tetty Marta Linda
6	09.45-10.00	Synthesis and Characterization of Natural Hematite (Fe ₂ O ₃) Extracted From Iron Ore by Precipitation Method	Zulkarnain Jalil, Andia Fatmaliana, Adi Rahwanto and Ismail Ab
		H. Education & Environment	Session Chair : Sugiman
1	10.15-10.30	Analysis of Thermal Stimulation Effect with Short Cyclic Method on Area X01 and X02 in Riau Oil Field	Tomi Erfando, Ali Musnal and Fadhli Sy
2	10.30-10.45	Induced Current Simulation of One-Dimensional Vibrating Magnetic Granular Particles System,	Sparisoma Viridi and Suprijadi Haryono
3	10.45-11.00	Measurement of Solution Concentration by Using a Capacitive Transducer	Muhammad Hidayatullah and Kuwat Triyana
4	11.00-11.15	Comparative analysis of grounding impedance value based on length of electrode using three point method	Ni Made Seniari, Fildzah Azyyati and Ida Bagus Feri Citarsa
5	11.15-11.30		
6	11.30-11.45		

Wednesday, 11-Apr-18			
Garuda 2 Room			
I. Computer & Informatics			Session Chair: Onny Setyawati
1	08.30-08.45	Interactive Distance Media Learning Collaborative Based on Virtual Reality with Solar System Subject	Moh. Zikky, Miftakhul Firdaus and Kholid Fathoni
2	08.45-09.00	Best Wavelet Basis Function Selection for Indonesian Vowel Voice Recognition using Cross-correlation	Syahroni Hidayat, Habib Ratu Perwira Negara, Danang Tejo Kumoro, et al.
3	09.00-09.15	Implementation of Smarthome System Installation Based on Humanity	Sriwati Madjid Ansar Suyuti, Andani Achmad and Ejah Umrianah
4	09.15-09.30	Web Based Application for Development Decision Support System with AHP and TOPSIS Method.	Fatma A. Setyaningsih
5	09.30-09.45	Comparison of Color Identification on Soccer Robot using Color Filtering, k-NN and Naive Bayes	Onny Setyawati, Syaiful Amri and Hadi Suyono
6	09.45-10.00	Research Opportunities of LoRaWAN for Internet of Things Implementation.	Irsan Taufik Ali and Riri Fitri Sari
J. Poster Session			Session Chair: Eliyani
1	10.15-11.45	Voice Quality of VoIP on IP PBX Server over WiFi	Samsul Hidayat and Eliyani
2		Analysis of Electromagnetic Fields Emitted by Energy Saving Lamp	Muhammad Aghung Trisna Wiyadhi, Rijalul Hidayat and Satrya Bhayangkara Poetra
3		Measurement of Magnetic and Electric Fileds on Printer	Muhammad Fajar Alghiffari, Hari Surya Satma Bowo and Reta Arsita
4		Measurement of laptop Magnet Field According to Standardization and Exposure Limit	Ananda Ghufuran, Prasetyo and Nora Intan Huswari
5		Refrigerator Emissions Measurement	Ni Made Anggraeni, Pikri Hidayat and Surya Darma
6		Measurement of Magnetic Field and the Electric Field of a Monitor	Ibnu Zyad, Pramono and Windi Fikran Taupani
7		Magnetic Field and Electric Field on a Hair Dryer	Andi Akbar Hidayat, Mahiga Suhita KW and Meti Puspa S
8		Measurement of Electric Field and Magnetic Field on Rice Cooker	Gopinda, Rahman Hidayat and Taufik
9		Mapping of Exposure to Electric Field Radiation and Magnetic Field on a LCD Projector	Hasmil Hadi, Arif Rahman, Ahmad Zulkifli and Agus Suandi
10		Testing and Analyzing of Magnetic Field Induction Effect of Coil Against Oscilloscope with Current Variance	Titin Risti, Aldi Rizaldi and Haqqullah N Ukasyah

