



E Plenary

Tuesday, July 25, 2017 13.00-13.30

Medan Room 2nd fl

Invited Speaker : Professor Yifan Chen, FIET, SMIEEE (The University of Waikato, NZ)

E Plenary

Tuesday, July 25, 2017 13.30-14:00

Medan Room 2nd fl (Moderator : Dr. Muhammad Suryanegara)

Invited Speaker : Professor Kalamullah Ramli (Universitas Indonesia)

E 1 : Communication System and Signal Processing 1

Tuesday, July 25, 2017 13.30-15.00

Medan Room 2nd fl (Chair Session: Prof. Hana Baili)

No	Paper #	ID	Author	Title	Affiliation	Time
1	307	E1 - 1	Hana Baili	Propagation of Chaos in Power Control Games for Energy-Efficient Wireless Networks	Centrale Supélec, France	14.00-14.15
2	332	E1 - 2	Chih-Wen Lu and Yen-Chung Huang	A 10-Bit TFT-LCD Column Driver IC with an RDAC-Embedded Op-amp	National Tsing Hua University, Taiwan	14.15-14.30
3	622	E1 - 3	Rizal Munadi	An Evaluation of DNS Server Health of State-Owned Universities in Sumatera Island	Syiah Kuala University, Indonesia	14.30-14.45
4	297	E1 - 4	Dini Fronitasari and Dadang Gunawan	Palm Vein Recognition by Using Modified Local Binary Pattern for Extraction Feature	Universitas Indonesia, Indonesia	14.45-15.00



E 2 : Computer Engineering 1

Tuesday, July 25, 2017 15.15-18.00

Medan Room 2nd fl (Session Chair: Prof. Poki Chen (NTUST) / Dr. Mat Syai'in)

No	Paper #	ID	Author	Title	Affiliation	Time
1	890	E2 - 1	Intan Budiastuti, Supeno Mardi Susiki Nugroho and Mochamad Hariadi	Predicting Daily Consumer Price Index Using Support Vector Regression Method	Sepuluh Nopember Institute of Technology (ITS), Indonesia	15.15-15.30
2	13	E2 - 2	Abdul Aziz Al Rasyid, Dion Ogi and Steven Yohanes	Implementation of Timestamping Linking Protocol in a Web Based Timestamping Application	National Crypto Institute, Indonesia	15.30-15.45
3	85	E2 - 3	I Putu Deny Arthawan Sugih Prabowo, Eko Nugroho and Rudy Hartanto	Analysis on The Green IT Applications Usage for The Firm's Competitive Advantage Strategy	Gadjah Mada University, Indonesia	15.45-16.00
4	122	E2 - 4	Gladly Caren Rorimpandey and Jan Pieter Zwart	Performance Comparison Between Four Data Models Used in Data Warehousing	Manado State University, Indonesia	16.00-16.15
5	479	E2 - 5	Moch Syamsul Arifin Sidik, Mat Syai'in, Sryang Tera Sarena, Lilik Subiyanto, Rachmad Tri Soelistijono, Joko Endrasmono, Annas Singgih Setyoko, Aang Wahidin and Adi Soeprijanto	Vending Machine for Office Stationery Transactions Using TCASH	Shipbuilding Institute of Polytechnic Surabaya, Indonesia	16.15-16.30



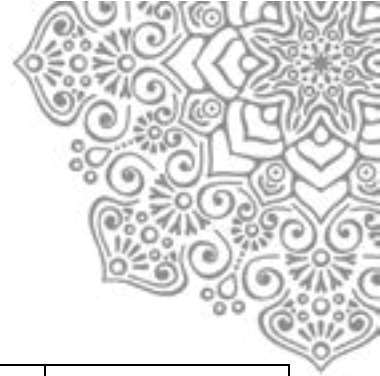
6	715	E2 - 6	Putu Manik Prihatini, I Ketut Gede Darma Putra, Ida Ayu Dwi Giriantari and Made Sudarma	Comparison of Gibbs Sampling and Mean Variational Inference for Latent Dirichlet Allocation on Indonesian Documents	Udayana University, Indonesia	16.30-16.45
7	873	E2 - 7	Asri Yulianti, Surya Sumpeno and Mauridhi Hery Purnomo	Majority Vote Technique Based On Multi Rough Set for Multi Attributes Decision-Making System	Sepuluh Nopember Institute of Technology (ITS), Indonesia	16.45-17.00
8	338	E2 - 8	Ding-Bing Lin, Chung-Ke Yu, Chih-Kang Lai and Ko-Ying Huang	Improved Structure of Ground Terminals for Crosstalk Reduction in SAS-3 Storage Connector Design	National Taiwan University of Science and Technology, Taiwan	17.00-17.15
9	323	E2 - 9	Poki Chen and Yi-Su Chung	High Accuracy FPGA Vernier Time-to-Digital Converter Based on PLL Delay Matrix	National Taiwan University of Science and Technology, Taiwan	17.15-17.30

E 3A : Electronic Devices and Semiconductor 1

Wednesday, July 26, 2017 08.00-10.00

Medan Room 2nd fl Session Chair: Dr. Arief Udhiarto/ Dr. Anak Agung Ngurah Made Narottama)

No	Paper #	ID	Author	Title	Affiliation	Time
1	44	E3A - 1	Masahiro Hori, Tokinobu Watanabe and Yukinori Ono	Real-time Monitoring of Charge-pumping Process for SiO ₂ /Si Interface Analysis	Shizuoka University, Japan	08.00-08.15
2	182	E3A - 2	Anak Agung Ngurah Made Narottama and Anak Agung Ngurah Gde Saptaka	Effect of Ge Mole Fraction on Current, Voltage and Electric Field Characteristics of High Doping Nanoscale Si _{1-x} Gex/Si p-n Diode.	Politeknik Negeri Bali, Indonesia	08.15-08.30



3	93	E3A - 3	Saya Kobayashi and Jun Kondoh	Measurement of Particles in Oil Using Shear Horizontal Surface Acoustic Wave Sensor	Shizuoka University, Japan	08.30-08.45
4	355	E3A - 4	Arief Udhiarto, Bobi Khoerun, Layina Maula Haryanto and Djoko Hartanto	Effect of Anode and Cathode Workfunction on the Operating Voltage and Luminance of a Single Emissive Layer Organic Light Emitting Diode	Universitas Indonesia	08.45-09.00
5	148	E3A - 5	Masaaki Nagatsu, Masahiro Kimpara and Tomy Abuzairi	Surface Functionalization of Fluorocarbon Polymers by Atmospheric Pressure Plasma Jet with Ion Bombardment Effect	Shizuoka University, Japan	09.00-09.15
6	484	E3A - 6	Cahyaning Nur Karimah, Retno Wigajatri Purnamaningsih, Tomy Abuzairi and Nji Raden Poespawati	Bifacial Heterojunction Intrinsic Thin Layer Solar Cells As a BioFET Supply	Universitas Indonesia, Indonesia	09.15-09.30
7	676	E3A - 7	Adnan Affif, Arup Samanta, Tarik Hasan, Arief Udhiarto, Harry Sudiby, Djoko Hartanto, Michiharu Tabe and Daniel Moraru	A Statistical Study on the Formation of A-Few-Dopant Quantum Dots in Highly-Doped Si Nanowire Transistors	Shizuoka University, Japan	09.30-09.45
8	378	E3A-8	Hidenori Mimura, Tomoaki Masuzawa and Yoichiro Neo	Microfield Emitters; Characteristics and Applications	Shizuoka University, Japan	09.45-10.00

E 3B : Antennas and Microwave Devices

Wednesday, July 26, 2017 08.00-10.00

Surabaya Room 2nd fl (Session Chair: Dr. Achmad Munir/ Dr. Fitri Yuli Zulkifli)

No	Paper #	ID	Author	Title	Affiliation	Time
1	763	E3B - 1	Achmad Munir, Habibur Muhaimin, Mohammad Sigit Arifianto, C Chairunnisa, Mohammad Ridwan Effendi and Andriyan Bayu Suksmo	Wideband BPF Composed of Planar Inverted-F Shaped for S-Band Frequency Application	Bandung Institute of Technology (ITB), Indonesia	08.00-08.15



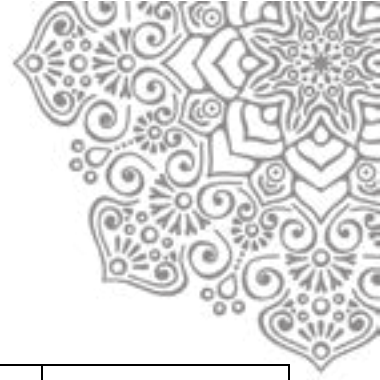
2	588	E3B - 2	Farohaji Kurniawan, Josaphat Tetuko Sri Sumantyo, Mujtahid Mujtahid and Achmad Munir	Effect of Shape Truncation Against Axial Ratio of Left-Handed Circularly Polarized X-Band Antenna	Chiba University, Japan	08.15-08.30
3	259	E3B - 3	Antrisha Daneraici Setiawan and Achmad Munir	Incorporation of High Permittivity Circular Dielectric Resonator for Enhancing Resonant Frequency of Microstrip Antenna	General Achmad Yani University, Indonesia	08.30-08.45
4	294	E3B - 4	Syah Alam, I Gusti Nyoman Wibisana and Indra Surjati	Miniaturization of Array Microstrip Antenna Using Peripheral Slits for Wireless Fidelity Communication	University of 17 August 1945 Jakarta, Indonesia	08.45-09.00
5	360	E3B - 5	Karlisa Priandana, Benyamin Kusumoputro and Eko Tjipto Rahardjo	The Design of ISM-Band Radar Antenna for Small Boat's Trajectory Tracking	Universitas Indonesia, Indonesia	09.00-09.15
6	532	E3B - 6	Dian Widi Astuti, Arif Jubaidillah and Mudrik Alaydrus	Substrate Integrated Waveguide Bandpass Filter for VSAT Downlink	Mercu Buana University, Indonesia	09.15-09.30
7	534	E3B - 7	Dian Widi Astuti, Ahmad Firdausi and Mudrik Alaydrus	Multiband Double Layered Microstrip Antenna Fed by Proximity Coupling	Mercu Buana University, Indonesia	09.30-09.45
8	249	E3B - 8	Yulianto La Elo, Fitri Yuli Zulkifli and Eko Tjipto Rahardjo	Design of Wideband Microstrip Antenna With Parasitic Elemen For 4G/LTE Application	Universitas Indonesia, Indonesia	09.45-10.00

E 4A : Electronic Devices and Semiconductor 2

Wednesday, July 26, 2017 10.15-10.00

Medan Room 2nd fl (Session Chair: Dr. Purnomo Sidi Priambodo/ Prof. Hiroshi Inokawa)

No	Paper #	ID	Author	Title	Affiliation	Time
1	73	E4A - 1	Lin Prasetyani and Purnomo Sidi Priambodo	450nm Laser Diode Beam Shaping for Repairing Burning Footprint in Engraving Process	Universitas Indonesia, Indonesia	10.15-10.30



2	189	E4A - 2	Mohammad Iwan Wahyuddin, Purnomo Sidi Priambodo and Harry Sudibyo	High Frequency Current Load Effects on Battery Internal Resistance	Universitas Indonesia, Indonesia	10.30-10.45
3	218	E4A - 3	Hiroshi Inokawa, Kou Akiba and Hiroaki Satoh	Thermal Conductance and Heat Capacity Measurement Utilizing Suspended-Wire Resistor	Shizuoka University, Japan	10.45-11.00
4	273	E4A - 4	Tomy Abuzairi, Nji Raden Poespawati, Retno Wigajatri Purnamaningsih and Dicky Apriady	Preliminary Study of Plasma-treated Water for Germination Stimulation of Agricultural Seeds	Universitas Indonesia, Indonesia	11.00-11.15
5	316	E4A - 5	Natalita Maulani Nursam, Jojo Hidayat, Lia Muliani Pranoto and Suwastika Wijayanti	Electrical Properties of Dye-sensitized Solar Module with Integrated Parallel Connections	Indonesian Institute of Science (LIPI), Indonesia	11.15-11.30
6	904	E4A - 6	Sakib Mohammad, Md. Noumil Tousif, A. A. Ferdous, Md. Ashrafal Hoque and Mohammad Wahidur Rahman	Numerical Simulation of CZTS Solar Cell with In ₂ S ₃ Buffer Layer	Islamic University of Techology, Bangladesh	11.30-11.45
7	918	E4A - 7	Syam Erast Prayoga, Retno Wigajatri Purnamaningsih, Tomy Abuzairi, and Nji Raden Poespawati	Crystalline Silicon Solar Cell Design with Al _x Ga _{1-x} As As Heterojunction with Compound Thin Layer for Biosensor Application	Universitas Indonesia, Indonesia	11.45-12.00
8	521	E4A - 8	Kazuhiko Hara, Kensuke Fukasawa, Tsuyoshi Nagase, Yuichiro Masuda, Tetsuya Kouno and Hiroko Kominami	Source Combination of Gallium Vapor and NH ₃ Gas for Chemical Vapor Deposition of GaN Films	Shizuoka University, Japan	12.00-12.15

E 4B : Medical Applications and Imaging System

Wednesday, July 26, 2017 10.15-10.00

Surabaya Room 2nd fl (Session Chair: Dr. Prima Dewi Purnamasari / Dr. Engelin Shintadewi Julian)

No	Paper #	ID	Author	Title	Affiliation	Time
1	119	E4B - 1	Ernia Susana and Hendrana Tjahjadi	Handheld Pulse Oximeter Using Raspberry Pi	Health Polytechnic of Jakarta II, Indonesia	10.15-10.30



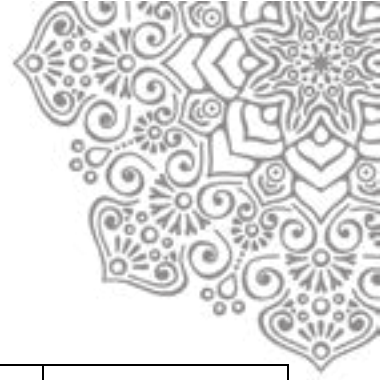
2	138	E4B - 2	Engelin Shintadewi Julian, Kiki Prawiroredjo and Gunawan Tjahjadi	The Model of Near Infrared Sensor Output Voltage As a Function of Glucose Concentration in Solution	Trisakti University, Indonesia	10.30-10.45
3	295	E4B - 3	Faisal Narpati and Basari Basari	Design of Ultrawideband Applicator for Microwave Ablation Aimed at Thermal Therapy in Liver Cancer	Universitas Indonesia, Indonesia	10.45-11.00
4	399	E4B - 4	Prima Dewi Purnamasari, Anak Agung Putri Ratna and Benyamin Kusumoputro	Relative Wavelet Bispectrum Feature for Alcoholic EEG Signal Classification Using Artificial Neural Network	Universitas Indonesia, Indonesia	11.00-11.15
5	434	E4B - 5	Bayu Azmi, Wibisono - and Adhi Harmoko Saputro	Portable Gamma Ray Tomography System for Investigation of Geothermal Power Plant Pipe Scaling	National Nuclear Energy Agency (BATAN), Indonesia	11.15-11.30
6	541	E4B - 6	Brahmastro Kresnaraman, Yasutomo Kawanishi, Daisuke Deguchi, Tomokazu Takahashi, Yoshito Mekada, Ichiro Ide and Hiroshi Murase	Headgear Recognition by Decomposing Human Images in the Thermal Infrared Spectrum	Nagoya University, Japan	11.30-11.45
7	599	E4B - 7	Erni Yudaningtyas, Djoko Santjojo, Waru Djuriatno, Indrazno Siradjuddin and Muhammad Rony Hidayatullah	Identification of Pulse Frequency Spectrum of Chronic Kidney Disease Patients Measured at TCM Points Using FFT Processing	Brawijaya University, Indonesia	11.45-12.00
8	64	E4B - 8	Hendrana Tjahjadi and Kalamullah Ramli	Review of Photoplethysmography Based Noninvasive Continuous Blood Pressure Methods	Universitas Indonesia, Indonesia	12.00-12.15

E 4C : Control Engineering System 1

Wednesday, July 26, 2017 10.15-10.00

Singaraja Room (Session Chair: Dr. Feri Yusivar / Dr. Wahidin Wahab)

No	Paper #	ID	Author	Title	Affiliation	Time
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1	150	E4C – 1	Suwandi Dwi Sahputro, Fahmi Fadilah, Nanda Avianto Wicaksono and Feri Yusivar	Design and Implementation of Adaptive PID Controller for Speed Control of DC Motor	Universitas Indonesia, Indonesia	10.15-10.30
2	191	E4C – 2	Bernadeta Wuri Harini, Aries Subiantoro and Feri Yusivar	Study of Speed Sensorless Permanent Magnet Synchronous Motor (PMSM) Control Problem due to Braking During Steady State Condition	Universitas Indonesia, Indonesia	10.30-10.45
3	288	E4C – 3	Misbahul Fajri and Kalamullah Ramli	PID Structure Based on Active Queue Management: A Review	Universitas Indonesia, Indonesia	10.45-11.00
4	397	E4C – 4	Jemie Muliadi, Rizki Langit and Benyamin Kusumoputro	Estimating the UAV Moments of Inertia Directly from Its Flight Data	Universitas Indonesia, Indonesia	11.00-11.15
5	453	E4C – 5	Indrazno Siradjuddin, Zakiyah Amalia, Budhy Setiawan, Rendi Pambudi Wicaksono and Erni Yudanangtyas	Stabilising a Cart Inverted Pendulum System Using Pole Placement Control Method	The State Polytechnic of Malang, Indonesia	11.15-11.30
6	624	E4C – 6	Wahidin Wahab and Muhammad Ramadiansyah	Modeling, Simulation and Control of a high Precision Loading-Unloading Robot for CNC Milling Machine	Universitas Indonesia, Indonesia	11.30-11.45
7	722	E4C – 7	Yohanes Berchman Adyapaka Apatya, Feri Yusivar and Aries Subiantoro	Design and Prototyping of 3-Phase BLDC Motor	Universitas Indonesia, Indonesia	11.45-12.00
8	883	E4C – 8	Muhammad Akil, Ingrid Nurtanio and Rhiza Samsoe'oad Sadjad	A DC Motor Speed Control Using LPC-ANFIS Speech Recognition System	Bosowa Polytechnic, Indonesia	12.00-12.15

E 4D : Computer Engineering 2

Wednesday, July 26, 2017 10.15-10.00

Hisbiscus Room 1st fl (Session Chair: Dr. Prihandoko / Dr. Misfa Susanto)



No	Paper #	ID	Author	Title	Affiliation	Time
1	21	E4D – 1	Prihandoko Prihandoko, Bertalya Bertalya and Muhammad Iqbal Ramadhan	An Analysis of Natural Disaster Data by Using K- Means and K-Medoids Algorithm of Data Mining Techniques	Gunadarma University, Indonesia	10.15-10.30
2	26	E4D – 2	Danila Machmud and Dion Ogi	The Implementation of Wash, Rinse, and Spin Technique in Accelerometer's Data Processing on Android Smartphone to Generate Stream Keys	National Crypto Institute, Indonesia	10.30-10.45
3	132	E4D – 3	Mohamad Ali Sadikin, Dea Saka Kurnia Putra and Susila Windarta	S-Mbank: Secure Mobile Banking Authentication Scheme Using Signcryption, Pair Based Text Authentication, and Contactless Smartcard	National Crypto Institute	10.45-11.00
4	386	E4D – 4	Anak Agung Putri Ratna, Randy Sanjaya, Tomi Wirianata and Prima Dewi Purnamasari	Word Level Auto- correction for Latent Semantic Analysis Based Essay Grading System	Universitas Indonesia, Indonesia	11.00-11.15
5	430	E4D – 5	Rini Wisnu Wardhani, Dion Ogi, Mohamad Syahrul and Dedy Septono Catur Putranto	Fast Implementation of AES on Cortex-M3 for Security Information Devices	National Crypto Institute, Indonesia	11.15-11.30
6	370	E4D – 6	Misfa Susanto, Risdawati Hutabarat, Yetti Yuniati and Syaiful Alam	Interference Management Using Power Control for Uplink Transmission in Femtocell-Macrocell Cellular Communication Network	University of Lampung, Indonesia	11.30-11.45
7	856	E4D – 7	Astriany Noer, Zulfajri B. Hasanuddin and Dewiani Djamaluddin	Implementation of RFID Based Raspberry Pi for User Authentication and Offline Intelligent Payment System	Hasanuddin University, Indonesia	11.45-12.00
8	881	E4D – 8	Indah Suryana Wahyudi, Mochamad Hariadi and Achmad Affandi	Recommender Engine Using Cosine Similarity Base On Alternating Least Square -Weight Regularization	Sepuluh Nopember Institute of Technology (ITS), Indonesia	12.00-12.15



Wednesday, July 26, 2017 14.00-15.30

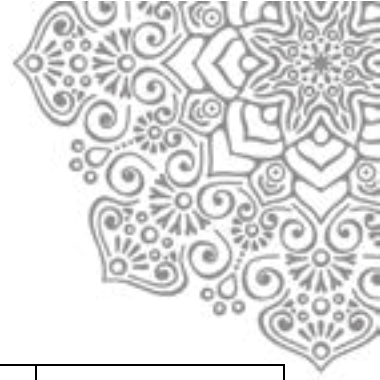
Medan Room 2nd fl (Session Chair: Dr. Ajib Setyo Arifin / Dr. Helmy Fitriawan)

No	Paper #	ID	Author	Title	Affiliation	Time
1	35	E5A - 1	Carissa Mega Yulianingrum and Susila Windarta	Coverage Test on LBlock-DM, LBlock-MMO and LBlock-MP	National Crypto Agency (Lemsaneg), Indonesia	14.00-14.15
2	33	E5A - 2	Sofu Risqi and Susila Windarta	Collision Test and Fixed Point Attack on PGV-5 SIMON-32 and PGV-5 SIMECK-32	National Crypto Agency (Lemsaneg), Indonesia	14.15-14.30
3	876	E5A - 3	Muhammad Fathur Rahman N, Salama Manjang and Zahir Zainuddin	Water Level Measurement Using Ultrasonic Pipe in Open Channel	Hasanuddin University, Indonesia	14.30-14.45
4	694	E5A - 4	Diah Kusumawati and Muhammad Suryanegara	IoT Spectrum Requirement for Smart Transportation	Universitas Indonesia, Indonesia	14.45-15.00
5	388	E5A - 5	Helmy Fitriawan, Ahmad Surya Arifin, Danny Mause, Misfa Susanto and Agus Trisanto	ZigBee Based Wireless Sensor Network and Performance Analysis in Various Environments	University of Lampung, Indonesia	15.00-15.15
6	907	E5A - 6	Ajib Setyo Arifin, Andrianus Pradipta and Dadang Gunawan	Modelling and Analysis E-SIM in Indonesia	Universitas Indonesia, Indonesia	15.15-15.30



E 5B : Power Engineering System 1						
Wednesday, July 26, 2017 14.00-15.30						
Surabaya Room 2nd fl (Session Chair: Prof. Woei-Luen Chen / Dr. Chairul Hudaya)						
No	Paper #	ID	Author	Title	Affiliation	Time
1	766	E5B - 1	Woei-Luen Chen, Chun-Yuan Chen, I-Chyn Wey and Yu-Ping Chou	Design and Control of a 10kW Three-Phase Grid-tied Back to Back Inverter	University of Taipei, Taiwan	14.00-14.15
2	285	E5B - 2	A K M Kamrul Hasan, Md Al-Amin Sarker, Shovajit Saha and Silvia Naznin Nupur	Load Frequency Control with Economic Dispatch in Power System	Southeast University, Bangladesh	14.15-14.30
3	308	E5B - 3	Muhammad Levy Aninditio and Amien Rahardjo	Lighting Replacement Analysis at Classrooms of Engineering Center, Faculty of Engineering, Universitas Indonesia	Universitas Indonesia, Indonesia	14.30-14.45
4	547	E5B - 4	Agus Indarto, Iwa Garniwa, Rudy Setiabudy and Chairul Hudaya	Total Cost of Ownership Analysis of 60 MVA 150/120 kV Power Transformer	Universitas Indonesia, Indonesia	14.45-15.00
5	593	E5B - 5	Yosi Ohira and Chairul Hudaya	Utilization of Idle Power Plant for Own Use and Excess Power in an Oil-and-Gas Company	Universitas Indonesia, Indonesia	15.00-15.15
6	687	E5B - 6	Widodo Pudji Muljanto and Rinaldy Dalimi	Secondary Voltage Control Of Single Phase Induction Generator Operated In Small Scale Picohydro Power Plant At Off-Grid Area.	Universitas Indonesia, Indonesia	15.15-15.30

E 5C : Control Engineering System 2						
Wednesday, July 26, 2017 14.00-15.30						
Singaraja Room (Session Chair: Dr. Muhammad Rif'an / Dr. Mat Syai'in)						
No	Paper #	ID	Author	Title	Affiliation	Time
1	413	E5C - 1	Bhakti Yudho Suprpto, Wahidin Wahab, Benyamin Kusumoputro and Amsa Mustaqim	Modified Elman Recurrent Neural Network for Attitude Control of Heavy-lift Hexacopter	Universitas Indonesia, Indonesia	14.00-14.15
2	465	E5C - 2	Muhammad Rif'an, Feri Yusivar and Benyamin Kusumoputro	Adaptive PID Controller Based on Additional Error of an Inversed-Control Signal for Improved Performance of Brushless DC Motor	Universitas Indonesia, Indonesia	14.15-14.30
3	466	E5C - 3	Rosalia H Subrata, Julian Leonard Hardenberg and Ferrianto Gozali	The Use of PID Controller to Get the Stable Floating Condition of the Objects in Magnetic Levitation System	Trisakti University, Indonesia	14.30-14.45



4	508	E5C - 4	Abdul Halim and Muhammad Sulaiman Nur Ubay	Performance Simulation of PID Based ADCS for Earth Observation Micro Satellite	Universitas Indonesia, Indonesia	14.45-15.00
5	555	E5C - 5	Dimas Andy Kurniawan, Mat Syai'In, Syamsiar Kautsar, Lilik Subiyanto, Joko Endrasmono, Rachmad Tri Soelistijono, Annas Singgih Setyoko, Aang Wahidin, Adi Soeprijanto and M. Khoirul Hasin	Hand Typist Robot Modelling for Quadriplegic Person Using Extreme Learning Machine	Shipbuilding Institute of Polytechnic Surabaya, Indonesia	15.00-15.15
6	600	E5C - 6	Yusuf Lestanto, Aries Subiantoro and Feri Yusivar	Two-stage Least Square Method for Model Identification of Vehicle Motion	Universitas Indonesia, Indonesia	15.15-15.30

E 6A : Tera/Optical Devices and Electrical System

Wednesday, July 26, 2017 15.45-18.00

Medan Room 2nd fl (Dr. Teti Zubaidah / Dr. Catur Apriono)

No	Paper #	ID	Author	Title	Affiliation	Time
1	94	E6A - 1	Dewi Anggraeni and Purnomo Sidi Priambodo	Open-loop Fiber Optic Gyroscope Model Based on Angle-random Walk Effect	Universitas Indonesia, Indonesia	15.45-16.00
2	410	E6A - 2	Retno Wigajatri Purnamaningsih, Poespawati Poespawati, Sasono Rahardjo, Maratul Hamidah, Elhadj Dogheche and Tomy Abuzairi	The Effect of Waveguide Parameters on GaN Based S-bend Y-junction Optical Power Divider	Universitas Indonesia, Indonesia	16.00-16.15
3	564	E6A - 3	Maratul Hamidah, Sasono Rahardjo, Retno Wigajatri Purnamaningsih, Poespawati and Purnomo Sidi Priambodo	Comparison of Coupling Coefficient (κ) Variation Effects on Double Couplers Structured Single Ring Resonator with Single and Double Beams Injection	Agency for The Assessment and Application of Technology (BPPT), Indonesia	16.15-16.30
4	570	E6A - 4	Yus Natali, Purnomo Sidi Priambodo and Eko Tjipto Rahardjo	Study on Electro-Optic Modulator Based Distributed Antenna System Over Wavelength Division Multiplexing Passive Optical Network System	Universitas Indonesia, Indonesia	16.30-16.45
5	613	E6A - 5	Catur Apriono, Nofrizal ., Mochamad Dandy Firmansyah, Fitri Yuli Zulkifli and Eko Tjipto Rahardjo	Near-field to Far-field Transformation of Cylindrical Scanning Antenna Measurement Using Two Dimension Fast-Fourier Transform	Universitas Indonesia, Indonesia	16.45-17.00
6	733	E6A - 6	Teguh Wahyudi, Catur Apriono, Fitri Yuli Zulkifli and Eko Tjipto Rahardjo	Broadband Planar Bow-tie Antenna on High Resistivity Silicon Substrate for Terahertz Application	Universitas Indonesia, Indonesia	17.00-17.15



7	852	E6A - 7	Teti Zubaidah, Bulkis Kanata, Paniran Paniran and Ahmad Yani	Static and Dynamic Magnetic Fields Scattering on a Mini Magneto-static Flux Manipulator for Wireless Power Transfer	Mataram University, Indonesia	17.15-17.30
8	227	E6A - 8	Teti Zubaidah, Bulkis Kanata and Made Sutha Yadnya	Engaging Community in Developing Electrical Wind Power in Rembitan Village, Central Lombok	Mataram University, Indonesia	17.30-17.45

E 6B : Power Engineering System 2

Wednesday, July 26, 2017 15.45-18.00

Surabaya Room 2nd fl (Dr. Tomy Abuzairi / Dr. Chairul Hudaya)

No	Paper #	ID	Author	Title	Affiliation	Time
1	57	E6B - 1	Heri Suyanto and Rina Irawati	Study Trends and Challenges of the Development of Microgrids	PLN Technical College, Indonesia	15.45-16.00
2	29	E6B - 2	Retno Aita Diantari and Isworo Pujotomo	Compressed Natural Gas (CNG) Technology for Fuel Power Plants	PLN Technical College, Indonesia	16.00-16.15
3	468	E6B - 3	Fitriyanti Mayasari and Rinaldy Dalimi	Dynamic Modeling of CPO Supply to Fulfill Biodiesel Demand in Indonesia	Universitas Indonesia, Indonesia	16.15-16.30
4	559	E6B - 4	Adinda Franky Nelwan, Chairul Hudaya and Rinaldy Dalimi	Concept Development for Quantification of Integrated Energy Security	Universitas Indonesia, Indonesia	16.30-16.45
5	565	E6B - 5	Diah Permata, Henry B.H. Sitorus and Yoga Putra Pratama	A Study on Overvoltage Protection Using Various Surge Protective Devices in Telecommunication Building	University of Lampung, Indonesia	16.45-17.00
6	716	E6B - 6	Wahyuni Martiningsih, Heri Haryanto, Inawati Inawati and M. Iman Santoso	Power System Stability Improvement Using Dynamic Gain Control AVR PSS	Universitas Sultan Ageng Tirtayasa, Indonesia	17.00-17.15
7	741	E6B - 7	Nur Fitryah, Syamsir Abduh and Ishak Kasim	Grounding System Design Optimization on 275 KV Betung Substation Based IEEE Standard 80-2000	Trisakti University, Indonesia	17.15-17.30
8	911	E6B - 8	Herlina Herlina, Rudy Setiabudy and Amien Rahardjo	Influence of Permanent Magnet and Slot Opening Width to Cogging Torque Reduction in PMSG Using Anti-Notch Method	Universitas Indonesia, Indonesia	17.30-17.45
9	129	E6B - 9	Ratnasari Nur Rohmah and Nurokhim	Simulation of I-131 Dispersion Around KNS (Kawasan Nuklir Serpong) Using Gaussian Plume Model	Muhammadiyah University of Surakarta, Indonesia	17.45-18.00



E 6C : Electrical System and Solar Power System

Wednesday, July 26, 2017 15.45-18.00

Manado Room (Dr. Wahidin Wahab / Dr. Gunawan Wibisono)

No	Paper #	ID	Author	Title	Affiliation	Time
1	604	E6C - 1	Wahidin Wahab	Design and Simulaton of an Output Voltage Stabilization and Control for Solar Power (PV) Application Using Fuzzy Logic Controller	Universitas Indonesia, Indonesia	15.45-16.00
2	349	E6C - 2	Euis Suryati and Gunawan Wibisono	Machine to Machine Application As Kwh Meter Controlling	Universitas Indonesia, Indonesia	16.00-16.15
3	276	E6C - 3	Jazuli Fadil, Soedibyo, Mochamad Ashari	Comparison Performance of Vertical Axis and Horizontal Axis Wind Turbines to Get Optimum Power Output	Sepuluh Nopember Institute of Technology (ITS), Indonesia	16.15-16.30
4	300	E6C - 4	Antonius Rajagukguk, Ciptian Weriad Priananda, Dedet Candra Riawan, Soedibyo Soedibyo and Mochamad Ashari	New Method Derivative Area Cluster for Optimization of PV Farm Under Dynamic Shading Effect	Sepuluh Nopember Institute of Technology (ITS), Indonesia	16.30-16.45
5	63	E6C - 5	Iswan Iswan and Iwa Garniwa	Principal Component Analysis and Cluster Analysis for Development of Electrical System	Universitas Indonesia, Indonesia	16.45-17.00
6	241	E6C - 6	Ciptian Weriad Priananda, Antonius Rajagukguk, Dedet Candra Riawan, Soedibyo Soedibyo and Mochamad Ashari	New Approach of Maximum Power Point Tracking for Static Miniature Photovoltaic Farm Under Partially Shaded Condition Based on New Cluster Topology	Sepuluh Nopember Institute of Technology (ITS), Indonesia	17.00-17.15
7	808	E6C - 7	Wisnu Ananda	External Quantum Efficiency (EQE) Measurement of Solar Cells	Center for Material and Technical Product, Ministry of Industry, Indonesia	17.15-17.30



E 6D : Communication System and Signal Processing 2

Wednesday, July 26, 2017 15.45-18.00

Bandung Room 2nd fl (Session Chair: Dr. Muhammad Suryanegara / Dr. Misfa Susanto)

No	Paper #	ID	Author	Title	Affiliation	Time
1	506	E6D - 1	Gregorius Ivan Baskara and Muhammad Suryanegara	Study of Filter-Bank Multi Carrier (FBMC) Utilizing Mirabbasi-Martin Filter for 5G System	Universitas Indonesia, Indonesia	15.45-16.00
2	758/888	E6D - 2	Abdul Hafid Paronda and Muhamad Asvial	User's Velocity-based Uplink Power Control in 5G Femtocell Networks	Universitas Indonesia, Indonesia	16.00-16.15
3	296	E6D - 3	Andreyanto Pratama, Taufik Hidayatullah and Dedy Septono Catur Putranto	Efficient Implementation of Hash Sequence Authentication Based on RFID	National Crypto Institute, Indonesia	16.15-16.30
4	312	E6D - 4	Sukra Bambang Wahyu Tri Hatmaja, Saptadi Nugroho and Iwan Setyawan	Stationary Obstacle Detection Using Pyramidal Lucas Kanade Optical Flow	Satya Wacana Christian University, Indonesia	16.30-16.45
5	371	E6D - 5	Dika Fauzia, Melvi and Syaiful Alam	Downlink Power Control for Interference Management in Femtocell-Macrocell Cellular Communication Network	University of Lampung, Indonesia	16.45-17.00
6	376	E6D - 6	Lessy Sutiyono Aji, Gunawan Dadang and Gunawan Wibisono	The Adoption of TV White Space Technology As a Rural Telecommunication Solution in Indonesia	Universitas Indonesia, Indonesia	17.00-17.15
7	385	E6D - 7	Dani Indra Widjanarko and Dadang Gunawan	A Hybrid C/Ku-band High Throughput Satellite Systems As an Optimal Design for Indonesia	Universitas Indonesia, Indonesia	17.15-17.30
8	882	E6D - 8	Muhammad Suryanegara and Insan Laksana Pribadi	Regulatory Recommendations for IoT Smart-health Care Services by Using Privacy Impact Assessment (PIA)	Universitas Indonesia, Indonesia	17.30-17.45
9	690	E6D - 9	Erfan Rohadi, Aida Sartimbul and Imam Fahrurrozi	Identification and Characterization of Mangrove Forest in View of Sustainability Conservation and Management: Mangrove Identification of Southern Coast Malang Region, East Java, Indonesia	The State Polytechnic of Malang, Indonesia	17.45-18.00