

**PARALLEL SESSION A (ICA) - August 1st 2019 (revised version on 26 July 2019)****ROOM A (AUTOMATION AND CONTROL SYSTEM)**

No	Time	EDAS Paper ID	Title	Authors
1	13.00 - 13.15	1570544312	Challenges and Considerations in A Tripping Operation: The Need for an Advanced Control	Gilang Samudra Kuswana, Singgih Satrio Wibowo, Herman Sutarto
2	13.15 - 13.30	1570548078	Physiological Pattern of Emotion in Elderly Based on Pulse Rate Variability Features: A Preliminary Study of e-Health Monitoring System	Adhi D Wibawa
3	13.30 - 13.45	1570558245	Data-Driven Construction of Chemical Reaction Network Graph Using Constrained LASSO	Tua Agustinus Tamba, Yul Yunazwin Nazaruddin
4	13.45 - 14.00	1570559184	Comparison Study of Modulation Techniques of Data Communication for HST in CBTC Systems	Selvi Lukman, Yul Yunazwin Nazaruddin, Endra Joelianto
5	14.00 - 14.15	1570523479	Visual Servo Application Using Model Predictive Control (MPC) Method on Pan-Tilt Camera Platform	Christ Freben Dommaris Saragih, Fabiola M. T. R. Kinasih, Carmadi Machbub, Pranoto Rusmin, Arief Syaichu-Rohman
6	14.15 - 14.30	1570543570	A Static Output Feedback Predictive Control for a System with Multiple Input Delays	Janghoon Yang
7	14.30 - 14.45	1570547637	Implementation of FPGP-PID for Dynamic Speed Control of Three Phase Induction Motor Based on IFOC	Indra Ferdiansyah
8	14.45 - 15.00	1570548529	Study of External Force and Impedance Scheme on Stroke Rehabilitation Robot Manipulator	Ade Hasan Sumarso, Augie Widyotriatmo, Irwan Purnama

**ROOM B (CONTROL SYSTEM)**

No	Time	EDAS Paper ID	Title	Authors
1	13.00 - 13.15	1570549740	Detection of Potential Skin Cancer Lentigo Maligna Melanoma and Nodular Melanoma with Expert System Using Variable-Centered Intelligent Rule System (VCIRS) Method	Herfi Fani Martiano, Tito Waluyo Purboyo, Casi Setianingsih
2	13.15 - 13.30	1570552406	Design of Nonlinear Adaptive-Predictive Control System with ANFIS Modeling for Urea Plant Reactor Unit	Abduh Muhammad
3	13.30 - 13.45	1570556745	Estimation of Radionuclide Release Activity Using an Unscented Kalman Filter	Vineet Vajpayee, Victor Becerra, Nils Bausch, Xiang Tian, T. V. Santhosh, Gopika Vinod
4	13.45 - 14.00	1570557992	Robust Balancing on One-wheeled Human Transporter Based on Rider's Weight Variation Using PID-AFC Method	Muhamad Albani Rizki, Eko Mustofa, Endah Suryawati, Eko Henfri Binugroho
5	14.00 - 14.15	1570559015	Observer Based Adaptive PI Sliding Mode Controller for Cuk Converter	Ramadhani Kurniawan Subroto, Lunde Ardhenta, Kuo Lung Lian
6	14.15 - 14.30	1570558369	Wind Speed Forecasting Using Recurrent Neural Networks and Long Short Term Memory	Fitriana Ningsih, Esmeralda Contessa Djamil, Asep Najmurokhman
7	14.30 - 14.45	1570558683	Rigorous Modelling Steps on Roll Movement of Balancing Bicopter Using Multi-level Periodic Perturbation Signals	Fahmizal Fahmi, Esa Apriaskar, Muhammad Arrofiq, Afrizal Mayub

**ROOM C (CONTROL SYSTEM)**

No	Time	EDAS Paper ID	Title	Authors
1	13.00 - 13.15	1570558787	Process Control for Isopropanol-Water Separation via Azeotropic Distillation with Dividing Wall	Yovan Wijaya, Herry Santoso, Yansen Hartanto
2	13.15 - 13.30	1570558885	Design Control of Forward Motion of an Autonomous Truck-Trailer Using Lyapunov Approach	Mohammad Raka Febsya, Rizqi Ardhi, Augie Widyotriatmo, Yul Yunazwin Nazaruddin
3	13.30 - 13.45	1570558898	Multilayer Control for Coordinating Three-Wheeled Omnidirectional Mobile Robots	Calmantara Sumpono Putra, Augie Widyotriatmo, Kusprasapta Mutijarsa, Faza Fahleraz
4	13.45 - 14.00	1570558913	Intern Training of Artificial Intelligence Systems	John Page, Michael Bain, Faqihza Mukhlis
5	14.00 - 14.15	1570558931	Sunshine Duration Prediction Using 1D Convolutional Neural Networks	Andri Mulyadi, Esmeralda Contessa Djamal
6	14.15 - 14.30	1570559020	State of Charge (SOC) and State of Health (SOH) Estimation of Lithium-Ion Battery Using Dual Extended Kalman Filter Based on Polynomial Battery Model	Nadana Ayzah Azis, Endra Joelianto, Augie Widyotriatmo
7	14.30 - 14.45	1570559037	Voltage Control in Push-Pull DC-DC Converter Using State Space Averaging PID with Soft-Start for Electric Vehicle Auxiliary System	Albertus Hendra, Fanniesha Hamada, Feri Yusivar

**PARALLEL SESSION B (ICA)****ROOM A (CONTROL SYSTEM)**

No	Time	EDAS Paper ID	Title	Authors
1	15.15 - 15.30	1570563360	Image Processing of IoT Based Cherry Tomato Growth Monitoring System	Nadya Ayu Anugraheni
2	15.30 - 15.45	1570561351	Speed Control and Obstacle Avoidance of A Hexapod Mobile Robot Using Mamdani Type Fuzzy Logic Controller	Asep Najmurokhman, Kusnandar, Udin Komarudin, Sunubroto, Esmeralda Contessa Djamal, Fajar Taufik
3	15.45 - 16.00	1570561474	Modelling and Design of a Hybrid Aerial Vehicle Combining VTOL Capabilities with Fixed Wing Air Craft	Joshi Alaukik, Tripathi Amritanshu, R. N. Ponnalagu
4	16.00 - 16.15	1570561807	Implementing Neuro Fuzzy Approach for Bus Arrival Time Prediction Using GPS Data	Muhammad Fauzan, Imam Boni Mores, Yul Yunazwin Nazaruddin, Parsaulian Siregar
5	16.15 - 16.30	1570558928	Automated Auscultatory Blood Pressure Measurements Using Korotkoff Sounds Detection: A Preliminary Study	Dziban Naufal, Azizah S Noor, Muhammad Khalil, Tati Erawati Rajab, Agung W. Setiawan
6	16.30 - 16.45	1570564478	Prototype of Programmable High Voltage Pulse Generator for Simulator NDT Based on Ultrasound Wave	Ahmad Zahi Ulul Azmi, Suprijanto
7	16.45 - 17.00	1570554572	Preliminary Study of Microwave Metamaterial Based on Cylinder-Shaped for Sensor	Hadi Teguh Yudistira

**ROOM B (INSTRUMENTATION)**

No	Time	EDAS Paper ID	Title	Authors
1	15.15 - 15.30	1570556693	G-Connect: Real-time Early Warning System for Landslide Data Monitoring	Mardhani Riassetiawan
2	15.30 - 15.45	1570545858	Deep Learning with Long Short-Term Memory for Enhancement Myocardial Infarction Classification	Annisa Darmawahyuni, Siti Nurmaini, Sukemi Adam
3	15.45 - 16.00	1570549366	Performance Ratio Estimation and Prediction of Solar Power Plants Using Machine Learning	Steven Bandong, Edi Leksono, Ayu Purwarianti, Endra Joelianto
4	16.00 - 16.15	1570550000	Earthquake Sensor Based on Surface Water Wave in Cylindrical Container	Paramote Wardkein
5	16.15 - 16.30	1570551490	A Portable Surface Roughness Measurement System Using Laser Speckle Imaging Based on GLCM	Aditya Pradana, Prawito Prajitno
6	16.30 - 16.45	1570562996	Moisture Content Prediction System of Dried Sea Cucumber (Beche-de-mer) Based on Visual Near-Infrared Imaging	Sabar Fisika, Adhi Harmoko Saputro, Cuk Imawan
7	16.45 - 17.00	1570563089	Image Processing Schemes for Improving Needle Visibility in USG Image Using Curve Transducer	Arkanty Septyvergy, Hesty Susanti, Suprijanto, Endang Juliastuti, Vebi Nadhira

**ROOM C (INSTRUMENTATION)**

No	Time	EDAS Paper ID	Title	Authors
1	15.15 - 15.30	1570558400	Performance Analysis of Fiber with Solitons Parameters and Fiber Non-Solitons Parameters Using OptiSystem	Tsaura Dwi Fitriani Aulia, Ahmad H. Lubis, Ary Syahriar
2	15.30 - 15.45	1570558453	Design of Single and Double Layer Bowtie Antenna as Partial Discharge Sensors on Power Apparatus	Muhammad Sukri Habibi Daulay, Umar Khayam
3	15.45 - 16.00	1570558454	Analysis of Waveform of Partial Discharge in Oil Insulation Measured by RC Detector	Michael Stevano Sinurat, Umar Khayam
4	16.00 - 16.15	1570564482	Modelling and Simulation 3D Ultrasound Wave Propagation Using K-Space Pseudospectral Method in the Railway Track Geometry	Suprijanto, Deddy Kurniadi
5	16.15 - 16.30	1570564964	Edge Preserving Filter to Support PSF Estimation of Scanning Electron Microscope Images	Damar Rastri Adhika, Suprijanto
6	16.30 - 16.45	1570565600	EMG Signal Enhancement from ECG Artifact Contamination for Assessment of Swallowing Function	Azizah S Noor, Suprijanto, Miranti Indar Mandasari
7	16.45 - 17.00	1570563252	Application of Sensor Fusion for Determining Position and Velocity of Automated People Mover System at Soekarno-Hatta Airport with Extended Kalman Filter	Hilmanda Aryandi Putra, Yul Yunazwin Nazaruddin, Endang Juliastuti
8	17.00 - 17.15	1570563540	Risk Zone Estimation of Newborn Jaundice Based on Skin Color Image Analysis	Endang Juliastuti, Vebi Nadhira, Naila Zahra, Yokanan Wigar Satwika, Naufal Aulia Aziz