

Schedule of ICAMIMIA 2017

Time	Activities
Thursday, 12 October 2017	
07.30 - 08.00	Registration
08.00 - 08.15	Welcoming dance
08.15 - 08.45	Opening Ceremony: 1. Welcoming speech by Chair 2. Opening speech by Rector of ITS
08.45 - 09.00	Photo Session
09.00 - 09.45	Keynote speaker 1: Dr. Ir. Endra Pitowarno, M.Eng Politeknik Elektronika Negeri Surabaya (On the 3 rd -order Jerk-like Control Methods of the Proportional-Integral-Derivative Active Force Control and its Application to Low-level Control of 3D- High Speed Vehicle Motion)
09.45 - 10.00	Coffe break 1
10.00 - 10.45	Keynote speaker 2: Pascal Dricot Siemens Indonesia Ltd (Siemens Contributions to Indonesia's infrastructure)
10.45 - 11.30	Keynote speaker 3: Dr. Sreenatha G. Anavati UNSW Canberra, Australia (The Development of Neural Networks applications from Perceptron to Deep Learning)
11.30 - 12.15	Keynote speaker 4: Alfina Wijanarko, S.T., PMP, CFT Rockwell Automation Southeast Asia Pte. Ltd (The Rise of Smart Machines – Integrated Industrial IoT Machines in Smart Manufacturing)
12.15 - 13.00	Break, Lunch
13.00 - 15.00	Parallel Session 1
15.00 - 15.15	Coffe break 2
15.15 - 16.30	Parallel Session 2
16.30 - 17.00	Tour Registration
Friday, 13 October 2017	
08.00 - 09.00	Registration
09.00 - 09.45	Keynote speaker 5: A/Prof. Mahardhika Pratama Nanyang Technological University, Singapore

09.45 - 10.15	Coffe break 1
10.15 - 11.00	Keynote speaker 6: Aris Budiarto, Dipl. Ing PT. Bhimasena Research and Development, Indonesia
11.00 - 13.00	Break, Lunch
13.00 - 14.30	Parallel session 3
14.30 - 15.00	Closing ceremony

Schedule of Parallel Session
ICAMIMIA 2017

TIME	SESSION I				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
Thursday, 12 October 2017					
13.00-13.15	CM-1570391777	DS-1570381258	ME-1570382970	ME-1570397241	IC-1570384612
13.15-13.30	CM-1570394790	DS-1570392852	ME-1570382977	ME-1570397710	IC-1570394799
13.30-13.45	CM-1570395984	DS-1570393301	ME-1570383093	ME-1570399395	IC-1570397431
13.45-14.00	CM-1570397845	DS-1570402052	ME-1570383201	ME-1570397852	IC-1570397943
14.00-14.15	CM-1570398031	DS-1570396349	ME-1570392176	ME-1570397987	IC-1570398612
14.15-14.30	CM-1570399232	DS-1570396502	ME-1570392833	ME-1570398132	IC-1570399522
14.30-14.45	MI-1570397735	DS-1570397426	ME-1570393091	ME-1570403535	IC-1570400008
14.45-15.00	MI-1570370419	DS-1570397790	ME-1570393290	ME-1570398157	IC-1570403533
15.00-15.30	BREAK				
	SESSION II				
15.30-15.45	MI-1570393392	DS-1570396178	ME-1570394041	ME-1570398166	M-1570398281
15.45-16.00	MI-1570403575	DS-1570399186	ME-1570396114	ME-1570398184	M-1570397837
16.00-16.15	MI-1570403536	DS-1570399670	ME-1570396810	ME-1570398465	M-1570397975
16.15-16.30	MI-1570396175	DS-1570399561	ME-1570399486	ME-1570399601	M-1570400531

TIME	SESSION III				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
Friday, 13 October 2017					
13.00-13.15	E-1570394117	E-1570399621	ME-1570390886	ME-1570399654	M-1570399542
13.15-13.30	E-1570399907	E-1570386080	ME-1570392809	ME-1570392872	M-1570399543
13.30-13.45	E-1570396897	ME-1570399645	ME-1570403601	ME-1570399650	M-1570396908
13.45-14.00	E-1570397358	ME-1570398138	ME-1570396176	E-1570397719	E-1570399494
14.00-14.15			ME-1570399540		ME-155000001
14.15-14.30					

Regulation of Presentation

1. The presentation time is scheduled to be **10 minutes** followed by **5 minutes of discussion** (total time for each presenter would be 15 minutes).
2. The presenter should prepare the presentation file accordingly, and submit the presentation file to the committee by **11st October 2017 at 12.00 pm (WIB, GMT+7)** via email at **icamimia@gmail.com** with both email subject and filename: **Room name_ Session_ID Paper_Presenter**, example: **Room A_ M-1570391777_ Session2_ Sandrina Suteja**.

Room : A

Day, Date : Thursday, October 12th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION I			
13.00-13.15	CM-1570391777	A Study of Energy Consumption in Battery/Super Capacitor Hybrid System based on Optimized Driving Strategy	Bonhyun Gu; Sukwon Cha
13.15-13.30	CM-1570394790	Economic Plant Wide Control in Debutanizer Column	Toto Haksoro; Januar Dinar, Pratama; Ahmad Hasinur Rahman; Totok R. Biyanto
13.30-13.45	CM-1570395984	Control of photovoltaic system connected to DC bus in all-electric ship	Adi Kurniawan; Eiji Shintaku
13.45-14.00	CM-1570397845	Design of Fault Tolerant Control System on Variable Speed Wind Turbine with Sensor Fault	Katherin Indriawati; Alief Ghazi; Bambang W; Ali Musyafa'
14.00-14.15	CM-1570398031	Fuzzy Logic Control for EC (Electrical Conductivity) In Tomato Cherry Hydroponics Systems	Hendra Cordova
14.15-14.30	CM-1570399232	PID Controller Design for SSV BRP TARLAC (LD-601) Ship Heading Using Ziegler Nichols Tuning Method	Didik Khusnul Arif; Moch. Ardi Firmansyah; Dieky Adzkiya; Iratdya Winggari; Ivan Octaviano; Rachmat Wahyudi Ismail; Muhammad Afif Nasrul Anam; Faizin Anshori
14.30-14.45	MI-1570397735	Optimization of Transformator Load Alignment on Secondary Distribution Channel (Low Voltage) By Implementing Monitoring Losses Energy System due to Neutral Flow Bluetooth based and Smartphone	Edy Setiawan; Galih Anindita; Achmad Syahid
14.45-15.00	MI-1570370419	Embedded Ultrasonic Structural Radar with Fuzzy logic	Ihsan Akhinov
15.00-15.30	BREAK		
SESSION II			

15.30-15.45	MI-1570393392	Relative Humidity Monitoring System In Tray Trap Of Silica Gel Water Scrubber Column System In Biogas Purification	Eka Wahyu Prasajo
15.45-16.00	MI-1570403575	Modeling and Analysis The Effect of Orifice Area Variation to The Dynamic Response of Hydro Electro Mechanic Shock Absorber (HEMSA)-Double Cylinder	Anifatul Faricha; Harus Guntur
16.00-16.15	MI-1570403536	Technical and Economical Analysis of Development toward Supporting Galvanized Industries for Ship's Components throughout Surabaya	Anifatul Faricha
16.15-16.30	MI-1570396175	Optimization of New Telecommunication Tower Selection at Bangkalan Regency Using Simulated Annealing Method	Achmad Mauludiyanto; Anifatul Faricha

NOTE :

CM : Control and Modeling

MI : Manufacture, Instrumentation, and Measurement

Room : B

Day, Date : Thursday, October 12th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION I			
13.00-13.15	DS-1570381258	Symbiotic Organisms Search with the Feasibility-Based Rules for Constrained Engineering Design Optimization	Doddy Prayogo; Min-Yuan Cheng
13.15-13.30	DS-1570392852	Enhanced Symbiotic Organisms Search (ESOS) for Global Numerical Optimization	Doddy Prayogo; Foek Tjong Wong; Steven Sugianto
13.30-13.45	DS-1570393301	Comparative of Feasibility Study Between Diesel Mechanical Propulsion System and Combination of Diesel or Electric Propulsion System on Offshore Patrol Vessel (OPV) 80 m	Eddy Setyo Koenhardono; Rahmat Kristomi; Amiadji Amiadji
13.45-14.00	DS-1570402052	Design Biomass Dryer by Using Heat Release Of Boiler Combustion	Totok Soehartanto
14.00-14.15	DS-1570396349	Design of Marine Cable Installation for Ocean Current Power Plant in Toyopakeh Strait-Bali	Adi Kurniawan; Mira Yosi; Irfan Arief; Danang Cahyagi
14.15-14.30	DS-1570396502	Optimization of Carbon Dioxide (CO ₂) Captured and Distribution for Enhanced Oil Recovery	Totok R. Biyanto; Muhammad Khalil; Gabriella Putri Dienanta
14.30-14.45	DS-1570397426	Virtual Sasando Using Leap Motion Controller	Ridho Rahman Hariadi; Darlis Herumurti; Anny Yuniarti; Imam Kuswardayan; Nanik Suciati; Tikva Mooy
14.45-15.00	DS-1570397790	Nearest Neighbour Based Task Allocation with Multi-Agent Path Planning in Dynamic Environments	Sumana Biswas; Sreenatha Anavatti; Matthew Garratt
15.00-15.30	BREAK		
SESSION II			
15.30-15.45	DS-1570396178	IMPLEMENTATION OF GAMIFICATION TO IMPROVE BLOOD DONORS BY PEER MOTIVATION APPLICATION	Radityo Wibowo; Anifatul Faricha

15.45-16.00	DS-1570399186	Review and Comparison Of DC-DC Converters For Maximum Power Point Tracking System In Standalone Photovoltaic (PV) Module	Pressa Surya
16.00-16.15	DS-1570399670	Comparison Method of MPSO, FPA, and GWO Algorithm in MPPT Sepic Converter Under Dynamic Partial Shading Condition	Farid Dwi Murdianto; Moh. Zaenal Efendi; Rangga Eka Setiawan; Alfis Syah Laili Hermawan
16.15-16.30	DS-1570399561	Comparison Method of Flower Pollination Algorithm, Modified Particle Swarm Optimization and Perturb & Observe in MPPT Coupled Inductor Sepic Converter on DC Microgrid Isolated System	Farid Dwi Murdianto; Alfis Syah Laili Hermawan; Ainur Rofiq Nansur; Rangga Eka Setiawan

NOTE :

DS : Design and System

Room : C

Day, Date : Thursday, October 12th 2017

MODERATOR :

Time	ID	Title	Authors
SESSION I			
13.00-13.15	ME-1570382970	Classification of EMG Signal On Arm Muscle Motion Using Special Fourier Transformation to Control Electric Wheelchair	Farida Tyastuti; Yunafi'atul Aniroh; Darul Muslimin; Rusdianto Effendy
13.15-13.30	ME-1570382977	A Closed-Form Solution of Inverse Kinematic for 4 DOF Tetrix Manipulator Robot	Adi Novitarini; Yunafi'atul Aniroh; Diana Yufika; Slamet Budiprayitno
13.30-13.45	ME-1570383093	Design Of Salt Purification System Automatically using Poly Aluminum Chloride	Syamsur Rijal
13.45-14.00	ME-1570383201	Automatic Rearview Mirror Adjustment with Internet Capabilities Using Raspberry Pi	Arief Abdurrahman; Devin Febrian; Arymurti Santosa; Hilman Hakim; Arifur Rahman; Livia Lina
14.00-14.15	ME-1570392176	Distance Control Panel for Mini Amphibious Robot	Prili Vanindya Dinda Utami; Agung Nugroho Jati; Casi Setianingsih
14.15-14.30	ME-1570392833	Design, Development, and Characterization of Mobile Microrobots with Vision Control System	Gandjar Kiswanto; Reza Afrianto; Rifkie Putra; Mohammad Safhire
14.30-14.45	ME-1570393091	AM-BO : Single Propulsive Method Amphibious Robot	Raafi Dwi Susanto; Agung Nugroho Jati; Casi Setianingsih
14.45-15.00	ME-1570393290	Undesirable Rolling Minimization On The EDF Missiles Flight Based On LQR Methods	Gesang Nugroho; Andi Dharmawan
15.00-15.30	BREAK		
SESSION II			
15.30-15.45	ME-1570394041	Design of an Energy Regenerative System for a Robotic Leg Prosthesis	Amey Sunil Kulkarni; Satyabodh M Kulkarni
15.45-16.00	ME-1570396114	Human Gesture Imitation on NAO Humanoid Robot using Kinect based on Inverse Kinematics Method	Hilmi Fadli; Carmadi Machbub; Egi Hidayat

16.00-16.15	ME-1570396810	Design And Simulation Of Z Axis MEMS Capacitive Accelerometer For Airborne Applications	Vivek Ajarekar; Anilkumar V Nandi
16.15-16.30	ME-1570399486	Study Design of Body and Temperature Zone on Continuous Furnace Sintering Material Frangible Bullet Cu-5wt%Sn	Shochibul Ma'arif

NOTE :

ME : Mechatronics, Robotics, Automation

Room : D

Day, Date : Thursday, October 12th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION I			
13.00-13.15	ME-1570397241	Applying acceleration and deceleration for Dynamic balancing control of Humanoid Robot	Muhtadin Muhtadin; Anas Nurrochman; Djoko Purwanto; Muhammad Arifin
13.15-13.30	ME-1570397710	Open Source Development Platform for the Hardware and Software of Unmanned Aerial Vehicles	Martha S Lopez-de la Fuente; Jorge Lozoya-Santos, Sr.
13.30-13.45	ME-1570399395	Titanium Dioxide (TiO ₂) and Silver Chloride (AgCl)-Based pH Sensor Using Spin Coating Method	Eka Maulana; Nainaufal Hidayah; Onny Setyawati
13.45-14.00	ME-1570397852	Online Dynamic Set Point Weighting PID Controller for Remote Controlled Weapon Station Cal. 12.7 mm	Bill Winoto; Hendro Nurhadi; Bambang Pramujati
14.00-14.15	ME-1570397987	Quadrotors Distribution Controlling for Swarm Centroid Detection using A Modified Artificial Neural Network Self-Organizing Map (Modified ANN-SOM)	Albert Sudaryanto; Rusdhianto Efendi Abdul Kadir; Achmad Jazidie
14.15-14.30	ME-1570398132	Control Robot Arm based on Speech Recognition using Mel-Frequency Cepstrum Coefficients (MFCC) and K-Nearest Neighbors (KNN) Method	D Anggraeni; W. S. Mada Sanjaya
14.30-14.45	ME-1570403535	Design of Mini Synchronous Game Food Fest in Social Game Food Merchant Saga on Android Devices	Anifatul Faricha; Imam Kuswardayan; Ridho Rahman Hariadi
14.45-15.00	ME-1570398157	Comparative study of different models of Z axis MEMS Accelerometers	Vivek Ajarekar; Anilkumar V Nandi
15.00-15.30	BREAK		
SESSION II			

15.30-15.45	ME-1570398166	Evolving Fuzzy Inference System based Online Identification and Control of a Quadcopter Unmanned Aerial Vehicle	Md Meftahul Ferdous; Sreenatha Anavatti; Matthew Garratt; Mahardhika Pratama
15.45-16.00	ME-1570398184	Sliding Mode Control as Controller for Remote Control Weapon Station 12.7mm (RCWS)	Hans Kristian; Bambang Pramujati
16.00-16.15	ME-1570398465	Dimension Synthesis of Suspended Eight Cables-Driven Parallel Robot for Search-and-Rescue Operations	Latifah Nurahmi; Bambang Pramujati; Stephane Caro; Jeffrey Jeffrey
16.15-16.30	ME-1570399601	Detection Object in Day and Night Base on Experiment Using Two Cameras	Hendro Nurhadi

NOTE :

ME : Mechatronics, Robotics, Automation

Room : E

Day, Date : Thursday, October 12th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION I			
13.00-13.15	IC-1570384612	A Data Hiding Approach Using Enhanced-RDE in Grayscale Images	Pascal Maniriho; Tohari Ahmad
13.15-13.30	IC-1570394799	Rain Water Algorithm: Newton's Law of Rain Water Movements During Free Fall and Uniformly Accelerated Motion Utilization	Totok R. Biyanto; Ahmad Hasinur Rahman; Gabriella Putri Dienanta; Titania Bethiana
13.30-13.45	IC-1570397431	iARTour for Indonesia Tourism Object	Darlis Herumurti; Ridho Rahman Hariadi; Imam Kuswardayan; Anny Yuniarti; Nanik Suciati; Siska Arifiani
13.45-14.00	IC-1570397943	CFD Simulation of the End Plates Effect on the Elang Caraka Unmanned Aerial Vehicle (UAV)	Gesang Nugroho; Muhammad Agung Bramantya; Caesar Wiratama; Budi Setiawan
14.00-14.15	IC-1570398612	Using Data Driven Approach for the Ultimate Load Prediction of Thin-walled Steel Perforated Sections	Zhijun Lyu; Xi Huang
14.15-14.30	IC-1570399522	Development of Wavelet Transforms to Predict Methane in Chili using The Electronic Nose	Shoffi Sabilla; Riyanarto Sarno
14.30-14.45	IC-1570400008	An Efficient Transformation from Max-Plus-Linear Systems to Piecewise Affine Systems	Dieky Adzkiya; Alessandro Abate
14.45-15.00	IC-1570403533	Determination of Location and Numbers of Tram Stops in Surabaya with Model Set Covering Problem	Mardijah Mardijah; Anifatul Faricha
15.00-15.30	BREAK		
SESSION II			
15.30-15.45	M-1570398281	Calculating Optical Transition Energies in Semiconducting Zigzag SWCNTs	G. R. Ahmed Jamal; Sharif Mohammad Mominuzzaman
15.45-16.00	M-1570397837	Optimization Condition of Natural Rubber Latex Epoxidation Based on Rate Constant and Side Reaction	Norma Kinasih; Hani Handayani; Mohamad Fathurrohman

16.00-16.15	M-1570397975	Synthesis of Zn(OH) ₂ Nanoparticles using Electrochemical Method	Bahrul Ulum
16.15-16.30	M-1570400531	Test of Microwave Absorber of Rice Husk and Burned Rice Husk	Afif Arfianto; Mohammad Basuki Rahmat; Eko Setijadi; Achmad Mauludiyanto

NOTE :

IC : Information and Computational Engineering

M : Material

Room : A

Day, Date : Friday, October 13th 2017

MODERATOR :

Time	ID	Title	Authors
SESSION III			
13.00-13.15	E-1570394117	Integration Power System from Solar Power Plant with Electricity Grid by Summing Amplifier using Smart Technology	Aqidatul Izzah
13.15-13.30	E-1570399907	A Technique to Track Maximum Power-Point of Grid-Connected Single-Stage Inverter Photovoltaic System	Irwan Purnama; Pei-Chin Chi; Fajar Utomo; Jing-Yuan Lin; Yao-Ching Hsieh; Huang-Jen Chiu
13.30-13.45	E-1570396897	Analysis of Unbalanced Load Effect of Three Phase Transformer Feedback 61-103 Performance on the Various Connection Windings	Sardono Sarwito; S. Semin; Muhammad Hanif
13.45-14.00	E-1570397358	Analysis of Transient Response First Order and Second Order Theory in Pneumatic Control System using Feedback Instrument Type PCM140	Sardono Sarwito; S. Semin; Taufiq Hidayaturrahman

NOTE :

E : Energy

Room : B

Day, Date : Friday, October 13th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION III			
13.00-13.15	E-1570399621	Root Finding - Newton Rhapson Method as Maximum Power Point Tracker Algorithm for Static Photovoltaic	Fauzi Adhim; Ciptian Priananda; Lucky Rahayu
13.15-13.30	E-1570386080	Design and Simulation of Synchronous Generator Excitation System Using Buck Converter at Motor-Generator Trainer Model LEM-MGS	Rifdian Indrianto Sudjoko; Purwadi Darwito
13.30-13.45	ME-1570399645	Design Woodworking CNC Machine (WCM)3 Axis (X, Y, and Z) Using Stepper Motor MACH3 PC Base	Hendro Nurhadi
13.45-14.00	ME-1570398138	Design Optimisation Of MEMS Accelerometer Using Genetic Algorithm	Vivek Ajarekar; Ravi Jaganure

NOTE :

E : Energy

ME : Mechatronics, Robotics, Automation

Room : C

Day, Date : Friday, October 13th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION III			
13.00-13.15	ME-1570390886	A Self-Learning TS-Fuzzy System Based on the C-Means Clustering Technique for Controlling the Altitude of a Hexacopter Unmanned Aerial Vehicle	Fendy Santoso; Matthew Garratt; Sreenatha Anavatti
13.15-13.30	ME-1570392809	ARDUINO - BASED SIMULATOR OF PASSENGER COUNTER ONBOARD COMMERCIAL AEROPLANES	Nurwijayanti Kusumaningrum
13.30-13.45	ME-1570403601	Source Route Implementation using Intersection Node on GPSR Protocol to Increase VANET's Data Transmission	Anifatul Faricha
13.45-14.00	ME-1570396176	Design of Fuzzy Gain Scheduling Controller for DC Motor Speed Adjustment on Spindle CNC Milling	Josaphat Pramudijanto; Anifatul Faricha
14.00-14.15	ME-1570399540	Control Design for Direct-Drive Robotic ARM Using Sliding Mode Control	Totok S; Anifatul Faricha

NOTE :

ME : Mechatronics, Robotics, Automation

Room : D

Day, Date : Friday, October 13th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION III			
13.00-13.15	ME-1570399654	Blade Propeller Design Simulation Analysis on Thruster System with Using Numerical Software	Liza Rusdiyana
13.15-13.30	ME-1570392872	Motion Type of 3-RPS Parallel Manipulator for Ankle Rehabilitation Device	Latifah Nurahmi; Mochamad Solichin
13.30-13.45	ME-1570399650	Analysis Of The Design Of A Conceptual UNMANNED AERIAL VEHICLE Aerodynamics	Hendro Nurhadi
13.45-14.00	E-1570397719	Transient Stability Analysis of General Cargo Shipboard Power System	Indra Ranu Kusuma; Semin Semin; Muhammad Badrus Zaman

NOTE :

E : Energy

ME : Mechatronics, Robotics, Automation

Room : E

Day, Date : Friday, October 13th 2017
MODERATOR :

Time	ID	Title	Authors
SESSION III			
13.00-13.15	M-1570399542	Experimental study and Finite Element Modelling of Epoxy Carbon Fiber Reinforced Epoxy Material on Vehicle Shafts under Torsional Loading	Sutikno Sutikno; Anifatul Faricha
13.15-13.30	M-1570399543	An analysis on Pb (IV) Ion Effects	Djarot S; Anifatul Faricha
13.30-13.45	M-1570396908	Dielectric properties of ZnO,8MgO,2TiO ₃ prepared through solid state reaction and V ₂ O ₅ as sintering additive	Suasmoro Suasmoro; Anifatul Faricha
13.45-14.00	E-1570399494	Design Blade Pitch Controller of Wind Turbine for Load Frequency Control (LFC) using Improved Differential Evolution Algorithm (IDEA)	Dwi Lastomo; Slamet Budiprayitno; Herlambang Setiadi; Andri Ashfahani
14.00-14.15	ME-155000001	Online Identification of an Experimental Steam Drum Level System using PANFIS	Andri Ashfahani, Mahardika Pratama, Muhammad Abdul Hady, Imam Arifin

NOTE :

E : Energy
M : Material
ME : Mechatronics, Robotics, Automation

