

Tentative Program

9th Electrical, Electronics, Communication, Control, and Informatic Conference

Date	Schedule
Oct 9th	14.00-17.00 : Registration (Main Lobby)
Oct 10th	07.00-17.00 : Parallel Session and Keynote Speakers (Technical Session)
	18.30-22.00 : Gala Dinner (Singhasari Restaurant)
Oct 11th	07.00-13.00 : Social Visit (Olive Batik and Souvenirs Shop)

Technical Session Schedule

Time	Royal Executive	Anjasmoro Hall	Mantra Sport Bar	Executive Lounge	Panderman 1
07.00-07.30	Registration (Main Lobby)				
07.30-07.45	Enhancing Software Defect Prediction Using Principle Component Analysis and Self-Organizing Map (Mr. Novi Trisman Hadi; Dr. Siti Rochimah)	Learners' Interaction in a Technology-enhanced Flipped Classroom Approach: The Pedagogy of the 21st Century (Mr. Zamzami Zainuddin; Mr. Hardika Dwi Hermawan; Mr. Suseno Mahardiko)	Vulnerability and Protocol Association of Device Firmware in Power Grid (Mr. Yuyan Sun)	Light Sensing Smart Blinds (Prof. Taufik Taufik; Dr. Rini Nur Hasanah)	
07.45-08.00	Analyzing the Effect of Design Patterns on Software Maintainability: a Case Study (Dr. Siti Rochimah; Mr. Prasetya Nuswantara; Mr. Rizky Januar Akbar)	Fast Charging Batteries Simulation based on Capacitor Model: Change of Resistance Due to Internal Deposition (Dr. Sparisoma Viridi; Mr. Hendro Hendro; Dr. Felix Pasila)	Controlling Air Conditioning Load to Based on the Inside Room Temperature (Mr. Marwan Marwan)	Impact of load and speed variation to frequency variation on single-phase self-excited induction generator (Mr. Hari Santoso; Mr. Unggul Wibawa; Mr. Ramadhani Kurniawan Subroto; Mr. Lunde Ardidenta)	
08.00-08.15	Security Characteristic Evaluation Based On ISO/IEC 25023 Quality Model, Case Study: Laboratory Management Information System (Mr. Moh Nasrul Aziz; Mr. Irit Maulana Sapta; Dr. Siti Rochimah)	Design Navigation Robot Using Mirror Petri Net Method and Radio Frequency Identification (Mr. Yudhi Gunardi)	Design and Implementation of Fuzzy Logic Controller for A Class of Hexapod Mobile Robot (Dr. Asep Najmurokhan; Mr. Kusnandar Kusnandar, k; Mr. Gema Sofyan; Dr. Esmeralda Contessa Djama; Dr. Achmad Munir; Mr. Bambang Wibowo)	Optimal Placement and Sizing of Static Synchronous Compensator (STATCOM) Using Bacterial Foraging Optimization (Dr. Hadi Suyono; Mr. Unggul Wibawa; Mr. Alfian Pamungkas)	
08.15-08.30	Software Defect Prediction using Oversampling Algorithm: A-SUWO (Ms. Shabrina Choirunnisa; Ms. Blandina Meidyani; Dr. Siti Rochimah)	Integrated Demonstration Module for Basic Biomedical Signal Processing (Mr. Daniel Santoso; Mr. Fransiscus Dalu Setiaji)	Self-Adjusted of Direct Digital Synthesizers Signal Based on Automatic Gain Control for Soil Nutrient Measurement (Dr. Lazuardi Umar; Mr. Rahmondia Setiadi; Mr. H. Yanuar; Mr. Muhammad Mardhiansyah)	Dynamic Stability Impact of the Hybrid Wind and Microhydro Renewable Energy Sources on the Distribution System (Dr. Hadi Suyono; Mr. Teguh Utomoo; Mr. Mahfudz Shidiq; Prof. Ismail Musirin; Mrs. Lilik Awalini; Mr. Alfian Ferdianzah)	

Time	Panderman 1				
08.30-09.25	Opening Ceremony				
09.25-09.30	Group Photo Session				
09.30-12.00	Keynote Session 1	Could and Should We Realize Greener Communication Networks?			Prof. Dr.-Ing. Axel Bangert
	Keynote Session 2	An Efficient Data Collection Algorithm for Wearable / Mobile Tracking System in IoT/WSN			Assoc. Prof. Dr. Jiwa bin Abdullah
	Keynote Session 3	Introduction to Bio-Marker Detection and Development of A Rapid Readout System for CEA Concentration Measurement			Prof. Chua-Chin Wang

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Lunch (Singhasari Restaurant)					
13.00-13.15	Research in Wireless Sensor Networks: Optimization Service Discovery using Attenuated Bloom Filter (Mr. Irawan Dwi Wahyono)	Correlating the Photoelectrode Thickness with the Performance and Stability of Dye-sensitized Solar Cells (Dr. Natalita M. Nursam; Mr. Shobih Shobih; Mr. Jojo Hidayat)	Ink Viscosity Controller Using Magnetic Sensor and Fuzzy Logic (Dr. Zainul Abidin; Mr. Alva Kosasih; Mr. Mochammad Rif'an)	Optimal Design Capacitive Energy Storage (CES) for Load Frequency Control in Micro Hydro Power Plant Using Flower Pollination Algorithm (Mr. Machrus Ali; Mr. Muhammad Djalal; Mr. Muhammad Fakhrurozi; Mr. Kadaryono Kadaryono; Mr. Budiman Budiman; Mr. Dwi Ajiatmo)	SFCW Signal Generator Based on ATmega328 Microcontroller and R/2R Ladder Networks (Mr. Nurul Arief, H; Dr. Mohammad Sigit Arifianto; Dr. Asep Najmurokhan; Dr. Achmad Munir)
13.15-13.30	The Recommendation System of Thesis Topics Selection Based on Fuzzy-AHP and Fuzzy-ANP (Dr. Panca Mudjirahardjo; Mr. Ahmad Fauzi; Dr. Herman Tolle)	Animal Presence Detection for Elephants and Extruding Method Based on Bee Frequency (Mr. Candra Nugroho; Mr. Eka Maulana)	Adaptive Control for Buck Converter in Hybrid Power System based on DMRAC Method (Mr. Lunde Ardidenta; Mr. Ramadhani Kurniawan Subroto; Mr. Primatar Kuswiradyo)	Setting Analysis of Over Current Relay and Ground Fault Relay on Transformer Protection System of High Voltage Substation System (Ms. Lia Sugesti; Mr. AN Afandi; Mr. Hari Putranto)	Measurement and Modeling: Characteristic Propagation on 5.8 GHz at Surabaya Coastal for Maritime Communication (Mr. Ahmad Fauzi Makarim; Mrs. Okkie Puspitorini; Mrs. Haniah Mahmudah; Mr. Nur Siswandari; Mrs. Ari Wijayanti)
13.30-13.45	Developing Competence based Assessment Ontology Model for Indonesian Certification Competency (Mrs. Puji Rahayu; Ms. Ika Arthalia Wulandari; Mr. Adila Krisnadh; Mr. Dana Sensesuse)	B-Vetrace: Bee Venom Harvesters Device Integrated Using Solar Cell (Mr. Ariq Wardana; Mr. Eka Maulana; Mrs. Nurussa'adah Nurussa'adah)	Lyapunov based Estimator for Buck Converter (Mr. Ramadhani Kurniawan Subroto; Mr. Lunde Ardidenta; Mrs. Sapriesty Nainy Sari)	Parallel Operation Analysis of Current Source Inverter for Grid Connected Photovoltaic System (Dr. Suroso Suroso)	Performance Analysis of Vehicle-to-Vehicle Communication with Adaptive Modulation (Ms. Aisyah Novfitri; Ms. Titiek Suryani; Dr. Suwadi Suwadi)
13.45-14.00	Probabilistic Record Matching for Entity Resolution Using Markov Logic Networks (Mr. Muhammad Lukluk; Dr. Achmad Affandi; Mr. Mochamad Hariadi)	Switching Activity Analysis of Shifters and Multipliers for Application to ROM-less DDFS Architecture Selection for Low Power Performance (Prof. Chua-Chin Wang; Mr. Hsiang-Yu Shih)	Level Control in Coupled Tank System Using PID-Fuzzy Tuner Controller (Mrs. Dian Mursyitah; Mr. Ahmad Faizal; Mr. Ewi Ismaredah)	Analysis of Maximum Intermittent Renewable Energy Source Penetration on Interconnected System. A Study on South of Sulawesi Power System (Mr. Handrea Bernardo Tambunan; Mr. Putu Agus Aditya Pramana; Mr. Buyung Sofianto Munir)	Implementation of Distributed Consensus Algorithms for Wireless Sensor Network Using NodeMCU ESP8266 (Mr. Gaguk Suprianto; Dr. Iwan Wirawan)

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14.00-14.15	Android Quality Measurement in Metrics and Findings (Ms. Qonita Luthfia Sutino; Ms. Maryamah Maryamah; Dr. Siti Rochimah)	Hold Error Minimization Method on S/H Circuit Using Feedforward Neural Network as a Function Approximation (Mr. Agung Setiabudi; Prof. Hiroki Tamura; Prof. Koichi Tanno; Dr. Zainul Abidin)	Combined ANFIS method with FA, PSO, and ICA As Steering Control Optimization on Electric Car (Mr. Machrus Ali; Mr. Muhlasin Muhlasin; Mr. Hidayatul Nurohmah; Mr. Agus Raikhani; Mr. Hendi Sopian; Mr. Nyoman Sutantra)	Mitigation Voltage Sag/Swell and Harmonics using DVR Supplied by BES and PV System (Mr. Agus Kiswanton; Mr. Eko Prasetyo; Mr. Amirullah Amirullah)	Utilization of measurement data of Ionosphere Observation Station For continuation of Radio HF channel information (Mr. Sutoyo MT)
14.15-14.30	Role of Ontology and Machine Learning in Recommender System (Ms. Izzah Fadilah Akmaliah; Mr. Adila Krisnadh; Mr. Dana Sensesuse; Mrs. Puji Rahayu; Ms. Ika Arthalia Wulandari)	Model Simulation of Ground Penetrating Radar using GPRMax to Detect Porang Tuber (Mr. As' ad Aziz; Dr. Onny Setyawati; Mrs. Rahmadwati Rahmadwati; Prof. Axel Bangert)	Implementation of Artificial Neural Networks for Localization System on Rescue Robot (Mr. Riza Agung Firmansyah; Mr. Wahyu Setyo Pambudi; Mrs. Titiek Suheta; Mrs. Efrita Zuliani; Mr. Syahri Muharom; Mr. M. Bayu Hidayatullah)	Validation of Solar Inverter Testing Procedure for Stand-Alone PV Systems (Mr. Oo Rasyid; Dr. Oo Abdul Rosyid; Mrs. Nelly Lande; Mr. Fariz Rizanulhaq)	Research in Ubiquitous Network: Communication Optimization using Publish-Subscribe (Mr. Irawan Dwi Wahyono)
14.30-14.45	Biometric Identification with Limited Data Set (Prof. Mudrik Alaydrus; Ms. Regina Lionnie)	WSN Based Microclimate Monitoring System on Porang plantation (Mr. Abdur Rohman Muhammad; Dr. Onny Setyawati; Mr. Raden Arief Setyawan; Dr. Achmad Basuki)	Application of Genetic Algorithm for Placement of AIS (Automatic Identification System) Base Station (Mr. Nur Siswandari; Mrs. Okkie Puspitorini; Ms. Isti Vita Kartika)	Cloud Charge Impacts on Thunderstorm Algorithm Performances Considering the Scheduled Power Output Optimization Problem (Mr. Arif Afandi; Mr. Irham Fadlika; Ms. Yunis Sulistyorini; Mr. Farrel Candra WA; Ms. Michiko Ryyu Sakura A; Mr. Langlang Gumilar)	AN Efficient Load Balance Algorithm for Vehicular Ad-Hoc Network (Mr. Ali Abbas; Dr. Lukman Audah; Mr. Nayef Abdulwahab Mohammed Alduais)
14.45 - 15.00	Automatic Cervical Cell Classification Using Features Extracted by Convolutional Neural Network (Mr. Mahdin Rohmatillah; Dr. Sholeh Hadi Pramono; Mrs. Rahmadwati Rahmadwati; Dr. Hadi Suyono; Mr. Samuel Sena)	Accuracy and Stability of Sinusoidal Signal Generated using DDS-9910 and TCXO as Reference Clock (Dr. Setyawan Sakti; Mr. Ridha Ikhiani; Mr. Imron Rosadi; Mr. Ragil Kusuma; Dr. Agus Naba)	Oversampling Imbalance Data: Case Study on Functional and Non Functional Requirement (Mr. Lukman Hakim; Dr. Siti Rochimah)	Three-Phase DC-AC Inverter with Low Power Dissipation Filter For Photovoltaic-Based Micro-Grid Scale Electric Power System (Mr. Vinsen Let, Soim; Dr. Faizal Samman; Mrs. A. Ejah Salam)	Regulation Challenges of 5G Spectrum Deployment at 3.5 GHz: The Framework for Indonesia (Dr. Muhammad Suryanegara; Mr. Luthfijamil Sastrawidjaja)

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Coffee Break (Kertanegara Lounge)					
15.30-15.45	Selection of BEM Candidates Using Technique For Order Preference by Similarity to Ideal Solution (TOPSIS) (Mrs. Imamah Imamah)	RSI Comparison of ESP8266 Modules (Mr. Yoppy Yoppy; Dr. Harry Arjadi; Dr. Henry Candra; Mr. Haryo Dwi Prananto; Mr. Tyas Ari Wahyu Wijanarko)	Server-side lookup optimization of a web service (Dr. Achmad Basuki; Mr. Raden Arief Setyawan; Mr. Akhmad Mukhtarom)	Flux Density Distribution and Cogging Action Using Reluctance Network equivalent in Simple Magnetic Circuit with The Air Gap (Mr. Mochammad Rusli; Dr. Muhammad Aziz Muslim; Mr. I Nyoman Wardana; Dr. Moch. Agus Choiron)	Long Term Evolution (LTE) Network Planning At 700 MHz Frequency In Cipali Toll Road Using Atoll Radio Planning Software (Mr. Sigit Kusmaryanto)
15.45-16.00	One Time Password (OTP) Based on Advanced Encrypted Standard (AES) and Linear Congruential Generator(LCG) (Mrs. Imamah Imamah)	An Implementation Of Multi-object Tracking Using Omnidirectional Camera For Trash Picking Robot (Dr. Ilham A. E. Zaeni; Mrs. Siti Sendari; Mrs. Dyah Lestari; Mr. Yogi Mahandi; Mr. Mahfud Jiono; Mr. M Syaifuddin)	Adaptive Campus Virtual Tour using Location-Based Services (Mr. Didik Dwi Prasetya; Mrs. Triyanna Widiyaningtyas; Dr. Aji P Wibawa)	Study of Cogging Forces in A Ladder-secondary Doubled Linear Induction Motor (DSLIM) for Asymmetry Primary Placement (Mr. Mochammad Rusli; Dr. Muhammad Aziz Muslim; Dr. Moch. Agus Choiron; Mr. I Nyoman Wardana)	5.5 Ghz Directional Antenna with 90 Degree Phase Difference Output (Mr. Irfan Mujahidin; Dr. Sholeh Hadi Pramono; Dr. Muhammad Aziz Muslim)
16.00-16.15	Measuring Quality of Mobile Games from Player Perspective and Network Conditions (Mr. Ramadhan Cakra Wibawa; Mr. Ramaulvi Akhyar; Dr. Siti Rochimah)	Application of Servo-Motor Control System at Smart Sprinkler (Mrs. Satriani Akhmad; Prof. Rudy Djamauluddin; Prof. Muhammad Tola; Prof. Wihardi Tjaronge)	Use of Smartphone Based on Android as a Color Sensor (Mr. I Dewa Putu Hermida; Dr. Robeth V Manurung; Dr. Brilliant Adhi Prabowo; Mr. Munawar Riyadi; Mr. Marcelinus David Wahono; Mr. Yaya Sulaeman; Mr. Dayat Kurniawan)	Radial Flux Permanent Magnet Generator Design on Low Speed Wind Turbine to Reduce Cogging Torque (Mr. Adeguna Ridlo Pramurti)	Design of a new type of Square Lattice Photonic Crystal Fiber with flattened Dispersion and low confinement loss (Mr. Ibrahim Barry; Prof. Mitsuhiro Yokota; Dr. Angger Abdul Razak)
16.15-16.30	Comparative Analysis of String Similarity on Dynamic Query Suggestions (Mr. I Komang Rinartha Yasa Negara; Mr. Wayan Suryasa; Ms. Luh Gede Surya Kartika)	Wireless Power Transfer Characterization Based on Inductive Coupling Method (Mr. Eka Maulana; Dr. Zainul Abidin; Mr. Waru Djuriatno)	Mobile Sensing Platform using Smartwatch (Mr. Petrus Santoso; Dr. Felix Pasila; Mr. Iwan Putro)	Surface Discharge Characteristics on The Mica Surface Around The Edge of Plane-Plane Electrodes (Mr. Rian Nurdiansyah; Dr. Umar Khayam)	Numerical Analysis in Spherical Human Head at Different Frequencies of EM Wave Propagation (Ms. Zin Lwin; Prof. Mitsuhiro Yokota; Dr. Angger Abdul Razak)
16.30-16.45	Trend On Sedentary Behaviour Monitoring Research Purposes: A Review (Mr. Agung Mubyarto)	Measurement Accuracy Analysis of Distance Between Cameras in Stereo Vision (Mr. Raden Arief Setyawan)	Evaluation of Borneo's Biodiversity Information System (Mrs. Novianti Puspitasari; Mr. Edy Budiman)	Surface Discharge Characteristics on The Acrylic Surface Around The Tip of Needle of Needle-Plane Electrodes (Mr. Neris Ardiansyah; Dr. Umar Khayam)	The Influence of Speed User Mobility in QoS Wireless LAN 802.11g and 802.11n (2.4 GHz) Using Riverbed Modeler (Mr. Ali Mustafa; Mrs. Rusmi Ambarwati)
16.45-17.00	Development of Internet Reactor Laboratory using Kartini Reactor for Training and Education (Prof. Syarip Syarip; Mr. Adi Abimanyu; Mr. Umar Sahiful Hidayat)	Portable Heart Beat Monitoring System Using Three-Lead Configuration (Dr. Zainul Abidin; Mr. Ponco Siwindarto; Mr. Adharul Muttaqin; Mr. Muhammad Azril)	Comparative Analysis of Tsukamoto and Mamdani Fuzzy Inference System on Market Matching to Determine the Number of Exports for MSMEs (Mrs. E. Sonalitha; Mr. B. Nurdewanto; Mrs. S. Rathih; Mrs. N. Roosmalita Sari; Mr. A. Boedi Setiawan; Mr. Pindo Tutuko)	Low Power Electrical Generator from Soil Microbial Fuel Cell (Mr. Mulyadi Mulyadi; Mrs. Rika Arsianti)	Design of Backbone Fiber Optical Networks Using EDFA (Erbium Doped Fiber Amplifier) in Sleman District (Mr. Rifa Asyari; Mr. Ikbal Hasbian Reza)