

PROGRAM SCHEDULE

2019 3rd International Conference on Electrical, Telecommunication and Computer Engineering (ELTICOM)

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| Place: The Grandhika Hotel Medan; Date: September 16, 2019 | |
| Opening Session | |
| 07:30 – 08:30 | Registration |
| 08.30 – 08.45 | Chairman welcome and report |
| 08.45 – 09.00 | Welcoming and Opening speech from Universitas Sumatera Utara |
| 09:00 – 09:40 | Keynote Speaker 1: Prof. DR. Fitri Yuli Zulkifli, ST., M.Sc. Radar for Modern Technology Applications to Improve Quality of Life |
| 09:40 – 10:20 | Keynote Speaker 2: Dr. Ir. Fahmi, ST., M.Sc., IPM Smart Healthcare for Smart Nation: Future Trends and Its Challenges |
| Coffee Break | |
| 10:30 – 11:10 | Keynote Speaker 3: Dr. Norshakila Haris Progress and Prospect of AlGaAs/InGaAs Vertically-Stacked Technology Towards the Advancement of IR 4.0 |
| 11:10 – 11:50 | Keynote Speaker 4: Emerson Pascawira Sinulingga, ST., M.Sc. Ph.D Microwave Characterization of Nanoscale Devices for High Frequency Applications |
| 11.50 – 13.00 | Lunch |
| Oral Session 1 | |
| 13:00 – 15:00 | Room: Cendana 1, Cendana 2 and Cendana 3 |
| Coffee Break | |
| Oral Session 2 | |
| 15:15 – 17:15 | Room: Cendana 1, Cendana 2 and Cendana 3 |
| Closing Ceremony | |
| 17:30 – 18:00 | Closing statement and best presenter announcement |

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| Oral Session 1; Room: Cendana 1, Moderator: Dr. Syafruddin Hasan | |
| 13.00-13.15 | Retrofitting Solar Power Systems on Public Street Lightings as A Dispersed Power Plant |
| 13.15-13.30 | Load Flow Analysis of PV System Integration in Universitas Andalas Distribution System |
| 13.30-13.45 | Performance Test of Parallel Image Processing Using Open MPI on Raspberry PI Cluster Board |
| 13.45-14.00 | Implementation of Real-Time Monitoring on Agricultural Land of Rice Plants Using Smart Sensor |
| 14.00-14.15 | Experimental studies of the characteristics of the commercial thermoelectric sensor for heat energy harvesting |
| 14.15-14.30 | Minimizing the Electrical Power Distribution Cost by Optimizing the Distributed Generation Placement |
| 14.30-14.45 | Design of soil moisture control prototypes for plant cultivation |

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| Oral Session 1; Room: Cendana 2, Moderator: Mr. Hendra Zulkarnain | |
| 15.15-15.30 | Clustered beacon signal cell breathing for load balancing in mobile and wireless networks |
| 15.30-15.45 | Fiber Optic Trainer for Link Budget Measurement Tool on Optical Communication System |
| 15.45-16.00 | Performance comparison of Looping and Input-Output Algorithms on the 8 x 8 Benes Switching Network |
| 16.00-16.15 | Perturbation Effect on a Dual Mode CPW Multilayer MMIC Bandpass Filter |
| 16.15-16.30 | Monitoring of Toxic Gas and Dust from Motorized Vehicles on the Highway Using Internet of Things and Blob Detection. |
| 16.30-16.45 | Multi-Band Microstrip Fractal Antenna for S-Band and C-Band Radar Application |
| 16.45-17.00 | Design of Rectangular Microstrip Patch Antenna Using Aperture Coupled Fed for S-Band Application |

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| Oral Session 1; Room: Cendana 3, Moderator: Mr. Fakhruddin Rizal | |
| 15.15-15.30 | Bioinformatics Identification of TLR4 Genes in Brahma Chicken (<i>Gallus gallus domesticus</i>) |
| 15.30-15.45 | Minimization of Makespan Using FCFS Method and Genetic Algorithm Method Comparison in Aluminium Industry |
| 15.45-16.00 | Examining the Means of Engagement (MOE) for Enterprise Resource Planning (ERP) Adoption in Indonesia: Factors and Measures |
| 16.00-16.15 | The Effectiveness of Digital Marketing for Show Up Company: Issues and Challenges |
| 16.15-16.30 | Tree Identification to Calculate the Amount of Palm Trees using Haar-Cascade Classifier Algorithm |
| 16.30-16.45 | Automatic Detection of Chaos Phenomenon in Tornadoes Prediction Using Edge Detection |
| 16.45-17.00 | Search on Colon Cancer in Higher Plants Based-NCBI Online |

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| Oral Session 2; Room: Cendana 1, Moderator: Dr. Syafruddin Hasan | |
| 15.15-15.30 | Designing a car parking helper system in a garage using STM32 |
| 15.30-15.45 | Benchmarking of Wireless Microcontroller-based Three Phase Power Meter with Industrial Standard Instrument |
| 15.45-16.00 | Thermal Manikin Construction Using Arduino Microcontroller |
| 16.00-16.15 | Optimization of Hybrid Renewable Energy in Malaysia Remote Rural Area Using HOMER Software |
| 16.15-16.30 | Improving Voltage Profile of 150 KV Transmission Line in Aceh Subsystem with Capacitor Bank Installation |
| 16.30-16.45 | Modeling of Substation Grounding Grid Design Using Lab View Graphical User Interface |
| 16.45-17.00 | Influence of Artificial Pollutant on Disc Insulators under Dry and Wet Conditions on Leakage Current and Flashover Voltage |

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| Oral Session 2; Room: Cendana 2, Moderator: Mr. Hendra Zulkarnain | |
| 15.15-15.30 | Design of Circular Polarization Square Microstrip Antenna Using Shifted Feed Line Position and Truncated Corner Patch |
| 15.30-15.45 | RFID Wristband for Motorbikes Real Time Security System |
| 15.45-16.00 | Analysis and Optimization of Inter Band Handover Parameter by layering in LTE networks |
| 16.00-16.15 | Electronic Stethoscope with Noise Cancellation for Telehealth Peripheral |
| 16.15-16.30 | Directional Coupler Miniaturization Based on Multilayer Monolithic Microwave Integrated Circuit Technique |
| 16.30-16.45 | Vivaldi Antenna for Concrete Inspection Radar |
| 16.45-17.00 | Real-Time Sensor Application for the Measurement of the Vertical Profiles of Atmosphere |

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| Oral Session 2; Room: Cendana 3, Moderator: Mr. Fakhruddin Rizal | |
| 15.15-15.30 | Big Data Measurement Model in Achieving Maximum Accuracy Using the Model Hierarchy of Grid Partition (HGP) Method |
| 15.30-15.45 | Selection of Tourism Object Route in Lake Toba Area using Algorithm L-Deque |
| 15.45-16.00 | Analysis of Fuzzy Logic Method for Load Lifting Robot |
| 16.00-16.15 | Implementation of Basic Irrigation Postponement algorithm with rain water maximization on Lycopersicon Esculentum or Tomato Plant |
| 16.15-16.30 | A Study on Usability Requirement for Redesigning Student Information System |
| 16.30-16.45 | Hybrid of Ant Colony Optimization (ACO) and Tabu Search (TS) Algorithm to Solve the Traveling Salesman Problem (TSP) |
| 16.45-17.00 | Skin Diseases Classification Using Local Binary Pattern and Convolutional Neural Network |