

**Rundown  
ICAMIMIA 2023**

| Day and Date                       | Time (UTC+8) | Duration                              | Activity   |
|------------------------------------|--------------|---------------------------------------|--|
| Tuesday,<br>November 14th,<br>2023 | 07.00-07.30  | 30'                                   | Registration   |
|                                    | 07.30-08.00  | 30'                                   | Opening by MC  |
|                                    | 08.05-08.10  | 5'                                    | National Anthem "Indonesia Raya"                                 |
|                                    | 08.10-08.20  | 10'                                   | Cultural and Dance Performance                                   |
|                                    | 08.20-08.30  | 10'                                   | Opening speech by Dr. Dr. Eng. Imam Wahyudi Farid, S.T., M.T.    |
|                                    | 08.30-09.00  | 30'                                   | Keynote speaker 1 : Dr. Eng. Muhammad Abdillah, S.T., M.T.       |
|                                    | 09.00-09.30  | 30'                                   | Keynote speaker 2 : Prof. Dr. Harus Laksana Guntur, S.T., M.Eng. |
|                                    | 09.30-10.00  | 30'                                   | Keynote speaker 3 : Dr. Wahyu Caesarendra                        |
|                                    | 10.00-12.00  | 120'                                  | Parallel Section (online and offline)                            |
|                                    | 12.00-13.00  | 60'                                   | Break, lunch   |
|                                    | 13.00-15.00  | 120'                                  | Parallel Section (online and offline)                            |
|                                    | 15.00-15.30  | 30'                                   | Break  |
| 15.30-15.40                        | 10'          | Parallel Section (online and offline) |  |

| Day and Date                         | Time (UTC+8) | Duration | Activity                              |
|--------------------------------------|--------------|----------|---------------------------------------|
| Wednesday,<br>November 15th,<br>2023 | 09.00-09.30  | 30'      | Registration                          |
|                                      | 09.30-10.00  | 30'      | Opening by MC                         |
|                                      | 10.00-11.40  | 100'     | Parallel Section (online and offline) |

**Link Zoom** : <https://its.id/m/ZOOMICAMIMIA2023>

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**Tuesday, 14 November 2023**

| Time (UTC+8)                      | Title  | ID Paper   |
|-----------------------------------|--|------------|
| <b>Room : Rinjani 3 (Offline)</b> |  |            |
| 10.00-10.10                       | Efficiency Evaluation of a dual-inverter supplied open-end three phase 5 Hp Induction motor drives   | 1570957234 |
| 10.10-10.20                       | Design of Robust Control System for Delivery Drones  | 1570958093 |
| 10.20-10.30                       | Optimal Control Methods for Fuzzy Optimal Control Problem  | 1570959815 |
| 10.30-10.40                       | Implementation of Weibull Analysis Method in Designing Predictive Maintenance for Medical Mask Machine   | 1570962661 |
| 10.40-10.50                       | Comparative Analysis of Summarization Methods for Skin Care Product Reviews: A Study on BERT, BART, and T5 Models  | 1570965430 |
| 10.50-11.00                       | Tolerance Analysis of Jitter Clock Effect on Modular Dual Active Bridge (MDAB) Converter   | 1570970091 |
| 12.00-13.00                       | Break, lunch   |            |
| 15.30-15.40                       | Comparative Analysis of Novelty Detection Algorithms in Network Intrusion Detection Systems  | 1570958100 |
| <b>Breakout Room 1</b>            |  |            |
| 10.00-10.10                       | Design And Development Of Temperature Control System In Cow's Milk Yoghurt Fermenter For Optimization Of The Growth Of Lactobacillus Bulgaricus Bacteria | 1570935979 |
| 10.10-10.20                       | Design And Build Of Temperature Control System To Increase The Growth Rate Of Neon Tetra Fish And Egeria Densa Plant In Aquascape                        | 1570939898 |
| 10.20-10.30                       | A Novel PH and TDS Monitoring System In Drinking Water   | 1570940716 |
| 10.30-10.40                       | Design of Alarm and Shutdown System Simulating CO2 Gas Leakage at SARASSORA Plant Based on Safety Instrumented System Concept                            | 1570940730 |
| 10.40-10.50                       | Design of Portable Automatic Clothes Dryer with Fuzzy Logic Controller   | 1570941049 |
| 10.50-11.00                       | Design Of Light Intensity and Soil Moisture Control System to Optimize Lettuce Growth Indoors  | 1570941332 |
| 11.00-11.10                       | Basic Process Control System (BPCS) Design For Level Of Recirculating Water Tank Plant   | 1570941384 |
| 11.10-11.20                       | Monitoring And Control System for pH and Temperature of Water Quality on The Vertical Mud Crab Cultivation   | 1570941385 |
| 11.20-11.30                       | The Effect of Fuzzy Logic Controller (FLC) Implementation on Broiler Chicken Growth During Brooding Period   | 1570941858 |
| 11.30-11.40                       | Comparative Study of Machine Learning Algorithm on Linguistic Distinctions over Text Related to Human Trafficking and Sexual Exploitation                | 1570960268 |
| 11.40-11.50                       | Enhancing Hate Speech Detection for Social Media Moderation: A Comparative Analysis of Machine Learning Algorithms                                       | 1570972074 |
| 11.50-12.00                       | Predicting Passenger Occupancy of Commercial Buses Using Regression Approach of Machine Learning   | 1570973025 |
| 12.00-13.00                       | Break, lunch   |            |

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60111, Indonesia  
Website : <http://icamimia.id> Email : [icamimia@gmail.com](mailto:icamimia@gmail.com)



| Time (UTC+8)           | Title   | ID Paper   |
|------------------------|---|------------|
| 13.00-13.10            | Design and Development of Air Quality Measurement with Early Warning Systems  | 1570949039 |
| 13.10-13.20            | Design and Implementation of Four Cables Suspended Cable-driven Parallel Robot for Pendulum Batik Machine   | 1570959263 |
| 13.20-13.30            | Dynamic State Estimation of Sub-Transient Synchronous Generator Model Using Unscented Kalman Filter   | 1570959285 |
| 13.30-13.40            | Integrated Control System for Salt Purification Equipment to Optimize the Processing of Krosok Salt into Industrial Salt Using the Recrystallization Method | 1570959908 |
| 13.40-13.50            | Design and Build of A Total Dissolved Solid (Tds) Control System to Maintain Water Quality in Koi Fish Pond   | 1570960396 |
| 13.50-14.00            | Design of an Adaptive Cruise Control System Using PID Control Method on Electric Vehicle Prototypes   | 1570965443 |
| 14.00-14.10            | Stabilizing Temperature and Humidity in a Cocoa Bean Dryer Using Fuzzy Logic  | 1570966241 |
| 14.10-14.20            | Comparative Analysis of QRS Detection Algorithms: A Study on Accuracy and Processing Speed in Raspberry Pi Single-Board Computer                            | 1570968184 |
| 14.20-14.30            | Preliminary Studies for Cracking Sound Identification During Coffee Roasting  | 1570968190 |
| 14.30-14.40            | Image Detection of Seaweed, Seagrass, and Coral in Coastal and Underwater Marine Ecosystems   | 1570971695 |
| 14.40-14.50            | Web Service Classification From Network Flow Using Undersampling Technique  | 1570942343 |
| <b>Breakout Room 2</b> |   |            |
| 10.00-10.10            | Design and Analysis of Charging Stations for Battery Electric Bus with PV, Wind Turbine, and PLN Grid   | 1570935225 |
| 10.10-10.20            | The Effect of Fins Design on the Thermal Characteristics of Electric Motors for Electric Vehicles   | 1570941379 |
| 10.20-10.30            | Transient Stability Analysis Due to Reconfiguration of Electrical Power System on Ship With Hybrid Power Sources  | 1570941761 |
| 10.30-10.40            | Remote Laboratory using Horizontal Axis Wind Turbine as Distance Learning Support   | 1570943071 |
| 10.40-10.50            | Voltage Regulation of a Three-Phase PV-Connected Inverter Using LMI-Based Optimization  | 1570947196 |
| 10.50-11.00            | Numerical Investigation Effect of the addition of palm fronds on the burning of coal-fired boilers tangentially   | 1570956279 |
| 11.00-11.10            | Techno-Economic Analyses for Assessing Renewable Energy Integration Aspects in Rural Areas of South Asia  | 1570957619 |
| 11.10-11.20            | Harmonic Mitigation Using Passive Filters in 3-Phase Inverters To Improve Power Quality on Microgrid  | 1570957980 |
| 11.20-11.30            | Flexible Unit Commitment in a VRE Penetrated System Considering Deep Regulation of Thermal Units and Energy Storage Operation                               | 1570958639 |
| 11.30-11.40            | Urban Flood Disaster Mitigation through Image Classification Using Transfer Learning Method with MobileNet Fine-tuning                                      | 1570959159 |

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| Time (UTC+8)           | Title  | ID Paper   |
|------------------------|--|------------|
| 11.40-11.50            | 3D Simulation Combustion Characteristics Of EFB Biomass Co-Firing With Low Rank Coal In Pulverized Coal Boiler                                 | 1570959176 |
| 11.50-12.00            | Application Of MobileNetV2 Architecture to Classification of Knee Osteoarthritis Based On X-ray Images   | 1570959188 |
| 12.00-13.00            | Break, lunch   |            |
| 13.00-13.10            | Allocation of Reactive Power with Capacitor Bank Placement Considering the Use of Nonlinear Loads Using Particle Swarm Optimization            | 1570961244 |
| 13.10-13.20            | Telemonitoring For Photovoltaic Systems Using Internet of Things   | 1570962598 |
| 13.20-13.30            | Optimal Prediction of Electrical Energy Harvesting in Electronic Regenerative Shock Absorber   | 1570962634 |
| 13.30-13.40            | Exploration of an Electrical Energy Harvesting System Utilizing the Flow of Exhaust Emissions on a Motorcycle                                  | 1570963339 |
| 13.40-13.50            | A Real-Time Rain Detector Using An Electroda Probe On A Tipping Bucket Rain Gauge  | 1570964717 |
| 13.50-14.00            | Portable Thermal Electricity Generator Using the Seebeck Effect of Peltier as an Alternative Energy  | 1570965354 |
| 14.00-14.10            | A Two Stage Topology Inverter for Off-Grid Solar PV: Design and Implementation   | 1570965366 |
| 14.10-14.20            | Design and Implementation of an Isolated Two-Stage Dual Active Bridge Topology Inverter for Solar PV Off-Grid                                  | 1570965402 |
| 14.20-14.30            | Analysis of Power Consumption for Electrical Motor on Automatic Micro Electric Vehicle (MEVi)  | 1570966205 |
| 14.30-14.40            | Structural Analysis of Thumb Mechanism Exoskeleton Design for Post-Stroke Rehabilitation   | 1570971300 |
| 14.40-14.50            | Control Design of Autonomous Cars Using Satisfiability Modulo Theory   | 1570967567 |
| <b>Breakout Room 3</b> |  |            |
| 10.00-10.10            | Study of Traction Characteristics of a Low Multi-Purpose Vehicle   | 1570958802 |
| 10.10-10.20            | Improved Kron Method for Linear Losses Coefficient   | 1570958916 |
| 10.20-10.30            | Nonlinear Model Predictive Control for Precise Path Tracking in 4WID4WIS Electric Vehicles with Disturbance Observer-Based Speed Control       | 1570959827 |
| 10.30-10.40            | DeksaCleanect: Conceptual Design of an IoT and AI Integrated Approach for Ocean Plastic Detection and Alerting System                          | 1570959884 |
| 10.40-10.50            | Enhancing Autonomous Ground Vehicle Positioning and Navigation through Cascaded Multi-Sensor Integration                                       | 1570959928 |
| 10.50-11.00            | A Comparative Study of Traditional and Transformer-based Deep Learning Models for Multi-Class Eye Movement Recognition Using Collected Dataset | 1570965941 |
| 11.00-11.10            | Development of Heading Lock and Inverse Kinematics for an Unequal Degree Holonomic Transporter Robot   | 1570961070 |
| 11.10-11.20            | Digital Transformation in Coal Mining: IoT-Based Air Quality Monitoring System   | 1570964037 |
| 11.20-11.30            | Generator of Javanese Gamelan Musical Note Using 1D CNN Multi-Label Classification   | 1570964073 |

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|------------------------|--|------------|
| 11.30-11.40            | AI-Driven Farming: CNN-Based Rice Leaf Disease Identification and Classification   | 1570965383 |
| 11.40-11.50            | Identification of Compound using Artificial Neural Networks in Wastewater  | 1570965405 |
| 11.50-12.00            | Enhancing Autism Detection Through Visual Pattern Analysis Based On Machine Learning   | 1570965557 |
| 12.00-13.00            | Break, lunch   |            |
| 13.00-13.10            | Compressive Range and Velocity Estimation Using Frequency-Modulated Continuous Wave Radar  | 1570960395 |
| 13.10-13.20            | Real-time Visual Identification of Defect, Size, Maturity, and Quality on Ladies' Finger, Bitter Gourd, and Cucumber Using Image Processing and MobileNetV2              | 1570966280 |
| 13.20-13.30            | Empowering Library Attendance System with IoT-Enabled Student ID Cards   | 1570967456 |
| 13.30-13.40            | Smart Water Meter Based on LoRa Communication Technology   | 1570967641 |
| 13.40-13.50            | Realtime of Hand Gesture Recognition for Telerobotics Controller Based Leap Motion Using Random Forest   | 1570968538 |
| 13.50-14.00            | Network Intrusion Detection using Wide Tuned Convolutional Neural Network on IoT Network   | 1570969186 |
| 14.00-14.10            | Minced Meat Classification using Digital Imaging System Coupled with Machine Learning  | 1570969931 |
| 14.10-14.20            | Imaging System-Based Pork Adulteration Detection in Minced Beef using Neural Network   | 1570969936 |
| 14.20-14.30            | Implementation of Visual Inertial Odometry Concept for Outdoor Autonomous Mobile Robot and Navigation Based on ROS2  | 1570958414 |
| 14.30-14.40            | Improving Eye Movement Classification Performance Using CNN-Transformer Model  | 1570968432 |
| 14.40-14.50            | Long Short Term Memories for Microhydro Power Forecasting  | 1570971850 |
| <b>Breakout Room 4</b> |  |            |
| 10.00-10.10            | Optimal Placement and Sizing of Multiple DGs in an Unbalanced Load Flow Using GOA Direct-ZBR and AGOA Direct-ZBR Methods to Determine The Lowest Active Power Loss Value | 1570958501 |
| 10.10-10.20            | Trajectory Tracking Control of Four Omni-wheels Robot using PID and Pole Placement State Feedback Controller for Telepresence Robot Applications                         | 1570958641 |
| 10.20-10.30            | Examining the Online Food Delivery Problem on Starlike Graphs  | 1570959595 |
| 10.30-10.40            | Reliability Optimization of Compressed Air Systems in Nickel Smelter Industry based on Decision Making   | 1570959698 |
| 10.40-10.50            | Temperature Analysis of Fan-Shaped Contaminated Porcelain Insulators Using Thermal Imaging   | 1570959739 |
| 10.50-11.00            | Design of a Windbelt Array for Supporting Isolated Lighting Equipment  | 1570959826 |
| 11.00-11.10            | Performance Comparison Study Between DC Shunt Motor No. 110 and Three-Phase Asynchronous Slip Ring Motor No. 520   | 1570959854 |
| 11.10-11.20            | Cooperative Spectrum Sensing for Cognitive Radio Based on Decision Tree Algorithm  | 1570965674 |

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|------------------------|---|------------|
| 11.20-11.30            | Lane Detection System Based on Canny Method for Driving Assistance  | 1570960539 |
| 11.30-11.40            | Linked Open Legal Data Indonesia  | 1570961083 |
| 11.40-11.50            | Bibliometric Analysis of Financial Management Applications on Student's Financial Awareness and Condition   | 1570961377 |
| 11.50-12.00            | Bibliometric Analysis of Cybervetting in the Recruitment Process  | 1570961397 |
| 12.00-13.00            | Break, lunch  |            |
| 13.00-13.10            | Analysis of The Effect of Go-food on Consumptive Behaviour  | 1570961399 |
| 13.10-13.20            | Analysis of Legislative Candidate's Motivation and Target in General Election 2019 Using Author-Topic Model and Node2vec                          | 1570961981 |
| 13.20-13.30            | Implementation of Broadcasting System for the 32nd SEA Game Via Satellite and Optical Communication   | 1570962002 |
| 13.30-13.40            | Ransomware Transaction Detection on the Blockchain with the TabNet Model  | 1570964360 |
| 13.40-13.50            | Possibility of hydrogen gas as the main fuel for diesel engines: A review   | 1570965260 |
| 13.50-14.00            | Reversible Data Hiding in Encrypted Images based on Interpolation Compression and Bits Distribution   | 1570965562 |
| 14.00-14.10            | Projection Onto Convex Sets Approach to Solve Homogeneous Self Dual Model of Portfolio Optimization   | 1570967368 |
| 14.10-14.20            | Legal Judgment Prediction: A Systematic Literature Review   | 1570967616 |
| 14.20-14.30            | Design of a Bus Payment System Using Near-Field Communication (NFC)   | 1570967655 |
| 14.30-14.40            | Advancements in Additive Manufacturing for 3D-Printed Mortar-Based Concrete Houses: Technical Analysis and Potential for Large-Scale Construction | 1570958134 |
| 14.40-14.50            | Line Tracking Algorithm Based on Computer Vision Leveraging Stereo Camera to Support Decision of Automated Guided Vehicle Navigation              | 1570968165 |
| <b>Breakout Room 5</b> |   |            |
| 10.00-10.10            | Design of Energy Management System on Hybrid Fuel Cell Battery System for Electric Trains   | 1570935699 |
| 10.10-10.20            | Hierarchical Topic Mining and Multi-label Classification on Online News in Bahasa   | 1570940074 |
| 10.20-10.30            | Design Optimization for Subsidy Distribution of Electric Motorcycles with Blockchain: A Case Study in Indonesia                                   | 1570941439 |
| 10.30-10.40            | Predicting Diabetes Risk in Pregnant Women: Leveraging AdaBoost as a Boosting Algorithm   | 1570941616 |
| 10.40-10.50            | Bagging and Boosting for Predicting Bank Customer Churn   | 1570941617 |
| 10.50-11.00            | Numerical Analysis of Voltage Drop on Low Voltage Direct Current Power System on Ship with Hybrid Power Sources                                   | 1570941915 |
| 11.00-11.10            | 3 DOF Robotic Wrist With Ball-And-Socket Joint Mechanism  | 1570942331 |
| 11.10-11.20            | Design of Sound and Light Simulator as Remote Laboratory to Support Distance Learning   | 1570942819 |

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|------------------------|--|------------|
| 11.20-11.30            | Optimized Artificial Potential Fields for Obstacle Avoidance of Unmanned Aerial Vehicles   | 1570943095 |
| 11.30-11.40            | Prototype of Plant Advisor Based on Soil Condition Using Internet of Things  | 1570949086 |
| 11.40-11.50            | Single-Phase UPS Inverter Using Offset-Free Optimizing Control with Digital All-Pass Filter  | 1570948084 |
| 11.50-12.00            | Asymptotically Stable Discrete-Time Observer for State-of-Charge Estimation  | 1570950507 |
| 12.00-13.00            | Break, lunch   |            |
| 13.00-13.10            | Identification System of Development and Growth of Cow, Goat for Increasing Investor Trust   | 1570950618 |
| 13.10-13.20            | Investigating Lithium Battery Health and Performance through Electrical Testing: A Case Study of 18650 Cells   | 1570951373 |
| 13.20-13.30            | Exploring the Impact of Spatio-Temporal Patterns in Audio Spectrograms on Emotion Recognition  | 1570951423 |
| 13.30-13.40            | Fake News Detection Using Sentiment Analysis Approach in Indonesian Language   | 1570952146 |
| 13.40-13.50            | Experimental Evaluation of Dual GPS for Heading Determination as a Compass Replacement in Unmanned Vehicles to Mitigate Electromagnetic Interference | 1570952353 |
| 13.50-14.00            | Improvement Heart Failure Prediction Using Binary Preprocessing  | 1570954549 |
| 14.00-14.10            | Utilization of Convolutional Neural Networks and Satellite Images for the Prediction of Road Quality in the Philippines                              | 1570956077 |
| 14.10-14.20            | Modeling Steam Power Plant Condenser Vacuum under Off-design Conditions: A Statistical Approach  | 1570956308 |
| 14.20-14.30            | Optimal Dynamic Network Reconfiguration for Power Loss Minimization in Smart Grid Distribution Systems Under Line Disturbances                       | 1570957658 |
| 14.30-14.40            | Effects of Exposure Parameters on The RGB Channels of Clean and Polluted Insulators Images   | 1570957947 |
| 14.40-14.50            | Improving Performance of Eye Movements Classification Using CNN-Transformer Model  | 1570968432 |
| <b>Breakout Room 6</b> |  |            |
| 10.00-10.10            | Spectrum Analyzer Using Software Defined Radio: A Case Study in Cambodia   | 1570968205 |
| 10.10-10.20            | Realtime of Hand Gesture Recognition for Telerobotics Controller Based Leap Motion Using Random Forest   | 1570968538 |
| 10.20-10.30            | Design and implementation of a PID control system on a UAV tracker antenna   | 1570968540 |
| 10.30-10.40            | Real-Time Microgrid For Submersible Pump Energy Consumption Based On Fuzzy Logic Controller  | 1570972010 |
| 10.40-10.50            | Sentiment Analysis of Google Classroom Application Using Machine Learning Techniques   | 1570972016 |
| 10.50-11.00            | Feasibility Study on Rooftop Solar Power Plant Installation in Vocational High School Workshop   | 1570970017 |

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| Time (UTC+8) | Title   | ID Paper   |
|--------------|---|------------|
| 11.00-11.10  | Improved Artificial Neural Network Method for Predicting Temperature of Solar Panel Output Performance  | 1570970288 |
| 11.10-11.20  | PV Maximum Power-Point Tracking by Using Artificial Neural Network  | 1570970368 |
| 11.20-11.30  | A Microgrid-Based Power Quality Enhancer for Sustainable Energy Using Hybrid Active Power Filter Control  | 1570952528 |
| 11.30-11.40  | Study of Current Relay Setting in Generator and Transformer Protection System at the Bakaru Hydroelectric Power Plant South Sulawesi-Indonesia Interconnection System | 1570971674 |
| 11.40-11.50  | Comparison of Machine Learning Techniques for Heart Disease Diagnosis and Prediction  | 1570969965 |
| 11.50-12.00  | Fish Freshness Detection Using UV Light Based on Deep Neural Network  | 1570970280 |
| 12.00-13.00  | Break, lunch  |            |
| 13.00-13.10  | Design Of Water Discharge Monitoring in Biopore Technology to Overcome Rainwater Stools in Surabaya   | 1570948503 |
| 13.10-13.20  | The Application of Artificial Neural Network (ANN) for Meat Classification Based on Near Infrared (NIR) Data Spectroscopy   | 1570970445 |
| 13.20-13.30  | The Implementation of A* Algorithm for Global Path Planning in Autonomous Vehicles  | 1570968209 |
| 13.30-13.40  | Cryptocurrency Price Movement Prediction Using the Hybrid SARIMAX-LSTM Method   | 1570968108 |
| 13.40-13.50  | Optimization-based sampling time selection for modeling of three interacting tanks  | 1570968367 |
| 13.50-14.00  | Identifying Gender Bias in Online Crime News Indonesia Using Word Embedding   | 1570968547 |
| 14.00-14.10  | Automated Testing for DevOps in GitHub Environment: A Comprehensive Analysis  | 1570970197 |
| 14.10-14.20  | Warehouse Management System Application using RFID Reader   | 1570969730 |
| 14.20-14.30  | Understanding Human Face Shape via Inception-ResNet Neural Network Architecture   | 1570966057 |
| 14.30-14.40  | Risk Assessment on Sales Gas Distribution of Oil and Gas Company using HAZOP and Risk Matrix  | 1570965270 |
| 14.40-14.50  | Forecasting of Electricity Usage of Indonesian Consumer Using Transformer Time Series   | 1570967788 |

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**Wednesday, 15 November 2023**

| Time (UTC+8)                | Title  | ID Paper   |
|-----------------------------|--|------------|
| <b>Room 1 : Rinjani 3</b>   |  |            |
| 10.00-10.10                 | Development of Bemisia Tabaci Pest Trap Technology Based on Centralized PLTS (Off-Grid) as an Energy Source in One Hectare Edamame Agricultural Land   | 1570941400 |
| 10.10-10.20                 | Flow-rate Feeder Control Design With PI-PI Cascade Controller on Biomass Power Plant   | 1570948090 |
| 10.20-10.30                 | Thermochemical conversion of macroalgae to green fuel production: An emerging technology process   | 1570952390 |
| 10.30-10.40                 | Prototype For Current and Voltage Monitoring of Distribution Transformer Based On Wifi   | 1570953949 |
| 10.40-10.50                 | Single-board Computer for Rural Traffic Counting System  | 1570954337 |
| 10.50-11.00                 | The Mixing System of Saturated Salt Solution and Seawater Salt Purification Process Using Hydro-extraction Method                                      | 1570954994 |
| 11.00-11.10                 | Electricity Generating System by Using Stirling Engine integrated with Internet of Things (IoT)  | 1570955000 |
| 11.10-11.20                 | Forecasting occupancy rate using neural network at Hotel R   | 1570958883 |
| 11.20-11.30                 | Prediction of Stock Trend Using Random Forest Optimization   | 1570939112 |
| 11.30-11.40                 | Design of Efficient Orienting Machinery System for Oil Bottle Position Selection Line with Fuzzy Logic Control   | 1570971992 |
| <b>Room 2 : Sangkareang</b> |  |            |
| 10.00-10.10                 | Analysis of success implementation of information systems Maintenance BTS Tower Telecommunication based WEB (Case Study PT Tekno Infrastruktur Sukses) | 1570959141 |
| 10.10-10.20                 | Forecasting average room rate using k-nearest neighbor at Hotel S  | 1570961454 |
| 10.20-10.30                 | Prediction of Clean Water Needs in Surabaya Using the Time - Series Neural Network Method  | 1570966679 |
| 10.30-10.40                 | Study of Slug-fly Ash Solution on Cyclone and Water Film for Steam Power Plant Reliability   | 1570967612 |
| 10.40-10.50                 | Predictive Scheduling System For Ball Mill Maintenance In Lead Paste Production Line Using Fuzzy Time Series Method                                    | 1570968536 |
| 10.50-11.00                 | Implementation of Long Short Term Memory Method to Predict Fiber Optic Network Disruptions   | 1570968558 |
| 11.00-11.10                 | Cap Badge Sorting System Based on Image Using Convolutional Neural Methods Network   | 1570970306 |
| 11.10-11.20                 | Vibration Analysis for Damage Classification of Finish Good Conveyor Machine Using Neural Network  | 1570970756 |
| 11.20-11.30                 | Agricultural Sector Acceleration Strategy to Achieve Food Security: An Empirical Study of Households in East Java                                      | 1570971390 |
| 11.30-11.40                 | Cost-Effective Approach for Data Integration on Tire Stacking Machine Through Real-Time Industrial Machine Monitoring System                           | 1570971596 |
| <b>Breakout Room 1</b>      |  |            |

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ICT and Robotics Research Center Building ITS Sukolilo Campus, Surabaya  
60111, Indonesia  
Website : <http://icamimia.id> Email : [icamimia@gmail.com](mailto:icamimia@gmail.com)



| Time (UTC+8)           | Title   | ID Paper   |
|------------------------|---|------------|
| 10.00-10.10            | Cost-Effective Approach for Data Integration on Tire Stacking Machine Through Real-Time Industrial Machine Monitoring System  | 1570971596 |
| 10.10-10.20            | Automatic Ball Launcher Machine for Goalkeeper Training Using YOLO Deep Learning Algorithm  |            |
| 10.20-10.30            | Development of Bemisia Tabaci Pest Trap Technology Based on Centralized PLTS (Off-Grid) as an Energy Source in One Hectare Edamame Agricultural Land  | 1570941400 |
| 10.30-10.40            | DESIGN OF WATER DISCHARGE MONITORING IN BIOPORE TECHNOLOGY TO OVERCOME RAINWATER STOOLS IN SURABAYA   | 1570948503 |
| 10.40-10.50            | Identification System of Development and Growth of Cow, Goat for Increasing Investor Trust  | 1570950618 |
| 10.50-11.00            | Study of Slug-fly Ash Solution on Cyclone and Water Film for Steam Power Plant Reliability  | 1570967612 |
| 11.00-11.10            | Design and Construction of Photovoltaic Preventive Maintenance Robotic for Roof-Top PLTS Installation   | 2370967613 |
| 11.10-11.20            | Mobile System Design of Gas Monitoring Devices in Closed House Chicken Cages  | 2370967614 |
| 11.20-11.30            | Design and Construction Monitoring System of Hazardous Gas and Air Quality in Closed House System at Poultry Farm in Jombang City   | 2370967615 |
| 11.30-11.40            | Implementation of Soft Starter on Pumps and Agricultural Monitoring Systems with Pest Exercise Technology to Increase Agricultural Efficiency   | 2370967616 |
| <b>Breakout Room 2</b> |   |            |
| 10.00-10.10            | Implementation of the PID Method to Control the Speed of a Single Phase Induction Motor in a Mobile Automatic Sheet Layer Inserter  | 2370967617 |
| 10.10-10.20            | Decision Support System for Repair Recommendations on Panels Using the DMAIC Method   | 2370967618 |
| 10.20-10.30            | PID Temperature Control System to Optimize Reagent Distribution Process Equipped with a Security System   | 2370967619 |
| 10.30-10.40            | Visual-Based Battery Labelling Quality Checker System Using Convolutional Neural Network  | 2370967620 |
| 10.40-10.50            | Integration of Centralized Fingerprint Biometric Authentication To Prevent Room Access Violations Using RBAC  | 2370967621 |
| 10.50-11.00            | Fuzzy Logic Implementation on Battery Pole Terminal's Height Checker Machine Using Moving Head Laser Sensor   | 2370967622 |
| 11.00-11.10            | Automated Visual Inspection System of Gear Surface Defects Detection Using Faster RCNN  | 2370967623 |
| 11.10-11.20            | Implementation of Battery Charging Control System and Energy Consumption Monitoring of Electrical Equipment Integrated with Internet of Things on Ground Mounted Off-Grid Solar Power Plant | 2370967624 |
| 11.20-11.30            | Mini-Plant for Drinking Water using Reverse Osmosis on Household-Scale  | 2370967625 |

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| Time (UTC+8)           | Title  | ID Paper   |
|------------------------|--|------------|
| 11.30-11.40            | Power Quality Improvement using Capacitor Bank and Single Tuned Passive Filter Implementation on EV Battery Charging Station   | 2370967626 |
| <b>Breakout Room 3</b> |  |            |
| 10.00-10.10            | Design and Development Water Quality Measurement In Vanamme Shrimp Seeding Phase Based On Internet of Thing  | 2370967627 |
| 10.10-10.20            | Design of the Dummy Load 4.0 Module as a Renewable Energy Technology Feasibility Test Module   | 2370967628 |
| 10.20-10.30            | Design and Development Insect Pest Equipment Based on Ultrasonic Wave and Light Trap Technology Using Photovoltaic Energy Source As An Effort to Improve Farmer Productivity in Pepe Village, Purworeo Regency | 2370967629 |
| 10.30-10.40            | Design a Battery Charging Device Using Solar Panel and Automatic Watering To Increase the Productivity of Shallot Farmer in Sidokare Village Nganjuk Based on Internet of Things                               | 2370967630 |
| 10.40-10.50            | Design Chemical Injection Sprayer on Machine Automatic Pest Sprayer Based on Wireless Sensor Network   | 2370967631 |
| 10.50-11.00            | Design and Construction of Automatic Fish Cracker Dryer System Based on The Internet of Things Cost Efficiently as an Effort to Increase Production Results and Hygiency of Fish Crackers in Kenjeran Surabaya | 2370967632 |
| 11.00-11.10            | Design a Smoke Filter Control System in Fish Burning Furnaces in an Effort to Reduce the Impact of Air Pollution   | 2370967633 |
| 11.10-11.20            | Design and Development of Mobile Robotic Technology for Vehicle Under Inspection as an Effort to Increase the Efficiency of Fitness Tests and Maintenance  | 2370967634 |
| 11.20-11.30            | Control Induction Motor Speed Using the PID Method in Pressing System Robotic Palletizer   | 2370967635 |

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