

vidDate August 5, 2025
 Location Room 1 Tunjungan A
 Track 01. [IES-ETA] Power Engineering and Energy Technology
 Moderator Dr. Teguh Hady Ariwibowo

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571138707	Thermal Management of Axial Flux Permanent Magnet Motors Using Spiral Cooling Plates: A Numerical Study	Rifky Chirmansyah Hidayaturrehman (Center for Research and Innovation on Advanced Transportation Electrification); Teguh Hady Ariwibowo, Muhammad Rizani Rusli, Eko Henfri Binugroho and Arrad Ghani Safitra (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
2	14:00 - 14:15	1571152782	Comparison Analysis of 18-Slot Stator in DSSR AFPM with Fractional Slot Concentrated Winding	Eko Henfri Binugroho and Aditya Prasetyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (PENS, Indonesia); Teguh Hady Ariwibowo and Zulhaydar Fairozal Akbar (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	14:15 - 14:30	1571147093	Structural Performance Analysis of PALF-Resin Composite Blades for Horizontal Axis Wind Turbines Using FEM	Nu Rrahida Arini, Threedaa Sastyakirana Nisa and Wahyu Nur Fadilah (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	14:30 - 14:45	1571163204	Characterization Of Electrical Properties And Structural Material Of LiFePO ₄ Cathodes Under Various Conditioning Treatments	Mohammad Fahmi Ilmi Yogianto, Anifatul Faricha and Chaironi Latif (Telkom University, Indonesia)
5	14:45 - 15:00	1571163468	Comparison of Remaining Life Prediction of LiFePO ₄ Batteries Using Machine Learning Based on Capacity Degradation Analysis	Lora Khaula Amifia (Institut Teknologi Sepuluh Nopember, Indonesia); Ardyono Priyadi (ITS, Indonesia); Vita Lystianingrum (Institut Teknologi Sepuluh Nopember, Indonesia)
6	15:00 - 15:15	1571145250	Impact of Tropical Ambient Temperature and Relative Humidity on Proton Exchange Membrane Fuel Cell (PEMFC) Performance	Muhammad Daffa Fadhliansyah (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Putri Dwi Imandini and Teguh Hady Ariwibowo (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Dewi Permatasari (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)

No	Time	Paper ID	Paper Title	Authors
	15:15 - 15:45		Coffee Break	
7	15:45 - 16:00	1571137703	Implementation of Half-Bridge Gate Driver for High Efficient BLDC Six-Step Controller	Gigih Prabowo and Ony Qudsi (Politeknik Elektronika Negeri Surabaya, Surabaya); Rio Irawan, Syechu Dwitya Nugraha, Endro Wahjono, Muhammad Rizani Rusli and Indra Ferdiansyah (Politeknik Elektronika Negeri Surabaya, Indonesia); Era Purwanto and Arman Jaya (Politeknik Elektronika Negeri Surabaya, Surabaya)
8	16:00 - 16:15	1571152873	Design and Manufacturing Rotor Disc for DSSR AFPM Motor using Hybrid Fiber Composite to Minimize Solid Loss whilst Maintaining Acceptable Rigidity	Eko Henfri Binugroho and Aditya Prasetyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (PENS, Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Himmawan Sabda Maulana (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
9	16:15 - 16:30	1571163548	Circular Flow Disturbance Effect to Darrieus Tidal Current Turbine Performance in Kepa Strait	Suci Rindya Kaswarie, Sony Junianto and Joke Pratilastiarso (Politeknik Elektronika Negeri Surabaya, Indonesia)
10	16:30 - 16:45	1571136008	MPPT Optimization With Improved Wolf position controller parameters via Grey Wolf Algorithm under Partial Shading Conditions	Moh Zaenal Efendi (Politeknik Elektronika Negeri Surabaya, Indonesia); Sanda Shakti Kharisma Jaya (Politeknik Elektronika Negeri Surabaya, Indonesia & Surabaya, Indonesia); Rachma Prilian Eviningsih, Novie Ayub Windarko and Muhammad Nizar Habibi (Politeknik Elektronika Negeri Surabaya, Indonesia)

Date August 5, 2025
 Location Room 2 Tunjungan B
 Track 02. [IES-ETA] Electronics Systems and Electrics Technology
 Moderator Dr. Setiawardhana

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571146980	Thermal Deformation Analysis of CanSat Frame Materials Under High-Temperature Environment Conditions	Muhammad Reza Pratama (Politeknik Elektronika Negeri Surabaya, Indonesia); Endra Pitowarno (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Nofria Hanafi (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Rafida Azis Al Habib (Politeknik Elektronika Negeri Surabaya, Indonesia)
2	14:00 - 14:15	1571146088	Development of an Integrated Electronic Braking System for Four-Wheel Steering Vehicles	Rama Syafrizal (Politeknik Elektronika Negeri Surabaya, Indonesia); Mochamad Mobed Bachtiar (Politeknik Elektronika Negeri Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Fernando Ardilla (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia & EEPIS, Indonesia); Febby Ronaldo (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
3	14:15 - 14:30	1571163591	Design of a Fuzzy Logic-Based Inverter Overcurrent Protection System for Electric Vehicles	Muhammad Hilmi Wijaya and Dedid Cahya Happyanto (Politeknik Elektronika Negeri Surabaya, Indonesia); Eru Puspita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
4	14:30 - 14:45	1571168721	Vision-Based Vehicle Classification and Load Estimation for Bridge Monitoring	Putera Dewangga, Hanny Megawati Rosalinda, Niam Tamami, Setiawardhana Setiawardhana and Taufiqurrahman Taufiqurrahman (Politeknik Elektronika Negeri Surabaya, Indonesia)
5	14:45 - 15:00	1571147318	Modified Firmware-Based Boot Synchronization and I/O Isolation for Vehicle Heterogeneous Multiprocessor Systems	Azka Rabbani Minanda (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Febby Ronaldo and Bayu Sandi Marta (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
6	15:00 - 15:15	1571157171	Development of a Real-Time Soil NPK Prediction System Using AS7265X Spectral Sensor and Random Forest Regression	Anjardita Yosi Lolitasya, Mochammad Zen Samsono Hadi and Nihayatus Sa'adah (Politeknik Elektronika Negeri Surabaya, Indonesia)

No	Time	Paper ID	Paper Title	Authors
	15:15 - 15:45	Coffee Break		
7	15:45 - 16:00	1571163618	Implementation of an Automatic Calibration System Based on the Error Correction Model in a Water Quality Meter Module	Praditya Martha Mahwidariyanto (Politeknik elektronika Negeri Surabaya, Indonesia); Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Ronny Susetyoko (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	16:00 - 16:15	1571156003	Adaptive Battery Charger Using Elman Backpropagation Neural Network-PI Algorithm for Varying Voltage on ERSOW Robot	Arya Suta Ibadurahman, Moh Zaenal Efendi, Muhammad Nizar Habibi, Novie Ayub Windarko and Rachma Prilian Eviningsih (Politeknik Elektronika Negeri Surabaya, Indonesia)
9	16:15 - 16:30	1571163307	Numerical Study of the Effect of Coolant Type on Photovoltaic Temperature Distribution	Maulana Akmal Rizqillah, Lohdy Diana and Teguh Hady Ariwibowo (Politeknik Elektronika Negeri Surabaya, Indonesia)
10	16:30 - 16:45	1571147271	Numerical Analysis of Savonius Ocean Current Turbine Performance in Kepa Strait	Andi Alvian Akbar Firmansyah, Sony Junianto and Joke Pratilastiarso (Politeknik Elektronika Negeri Surabaya, Indonesia)

Date August 5, 2025
 Location Room 3 Innovation 1
 Track 04. [IES-ETA] Robotics Technology and Control Systems
 Moderator Dr. Adnan Rachmat Anom Besari

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571135530	A Novel Unmanned Aerial-Ground Hybrid Vehicle for Rescue Missions and Extreme-Duty Operations	Ali Al-Baiti, Moustafa Elmallah, Zuhair Abdalmenem, Omaima Jarndal and Sam Ansari (University of Sharjah, United Arab Emirates); Anwar Hasan Jarndal (United Arab Emirates, United Arab Emirates & University of Sharjah, United Arab Emirates)
2	14:00 - 14:15	1571146523	Optimized Ball Interception for ERSOW Middle Size League Soccer Robot	Rohman Aditiya (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Kurnianto Wibowo (Institut Teknologi Sepuluh Nopember, Indonesia & Politeknik Elektronika Negeri Surabaya, Indonesia); Mochamad Mobed Bachtiar (Politeknik Elektronika Negeri Surabaya, Indonesia); Fernando Ardilla (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia & EEPIS, Indonesia); Dewi Mutiara Sari (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Septian Bagus Jumanoro (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	14:15 - 14:30	1571156467	Mechanical Design And Assembly of a Modular Educational Robot Using APIRO Components	Arthur Leduc (Université Polytechnique Hauts-de-France, Indonesia & Politeknik Elektronika Negeri Surabaya, Indonesia); Odin De Vito (Université Polytechnique Hauts-De-France, France & Politeknik Elektronika Negeri Surabaya, Indonesia); Noam Y Adda (Université Polytechnique Hauts-De-France, France & Polyteknik Elektronika Negeri Surabaya, Indonesia); Muhammad Fauzan Arief and Dwi Mulyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Sofiane Ghenna, Sr (Université Polytechnique Hauts-de-France (UPHF), France & Institut d'Electronique, Microélectronique et Nanotechnologie, France); Hestiasari Rante (Politeknik

No	Time	Paper ID	Paper Title	Authors
				Elektronika Negeri Surabaya, Indonesia)
4	14:30 - 14:45	1571146854	Dynamic Passing Strategy on Middle Size League Robot Soccer ERSOW using Potential Passing Point	Febrian Tirto Wicaksono (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Kurnianto Wibowo (Institut Teknologi Sepuluh Nopember, Indonesia & Politeknik Elektronika Negeri Surabaya, Indonesia); Mochamad Mobed Bachtiar (Politeknik Elektronika Negeri Surabaya, Indonesia); Fernando Ardilla (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia & EEPIS, Indonesia); Dewi Mutiara Sari (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Muhammad Nizar Habibi (Politeknik Elektronika Negeri Surabaya, Indonesia)
5	14:45 - 15:00	1571135664	Design and Development of Permanent Magnet Wall-Climbing Robot for Ferromagnetic Surface Visual Inspection	Ari Hartawan, Zaqiatud Darojah and Didik Purnomo (Politeknik Elektronika Negeri Surabaya, Indonesia); Eny Kusumawati (Politeknik Elektronika Negeri Surabaya(PENS)-Indonesia, Indonesia)
6	15:00 - 15:15	1571157061	TPU-MLIR-Driven INT8 Quantization for YOLO Models: Enabling High-Performance Edge AI in Autonomous Quadruped Robots	Jimly Adam Ahmad (Politeknik Elektronika Negeri Surabaya, Indonesia); Ali Husein Alasiry (Politeknik Elektronika Negeri Surabaya, Indonesia & Institut Teknologi Sepuluh Nopember, Indonesia); Adytia Darmawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Khairurizal Alfathdyanto (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Rahmat Sholikhin Firdaus (Politeknik Elektronika Negeri Surabaya, Indonesia); Fajar Mauludi (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)
	15:15 - 15:45	Coffee Break		
7	15:45 - 16:00	1571145952	Omnidirectional Vision-Based Localization for ERSOW Middle Size League Soccer Robot	Septian Bagus Jumanoro (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Kurnianto Wibowo (Institut Teknologi Sepuluh Nopember, Indonesia & Politeknik Elektronika Negeri Surabaya, Indonesia); Mochamad Mobed Bachtiar (Politeknik Elektronika

No	Time	Paper ID	Paper Title	Authors
				Negeri Surabaya, Indonesia); Fernando Ardilla (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia & EEPIS, Indonesia); Dewi Mutiara Sari (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Rohman Aditiya (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	16:00 - 16:15	1571169529	A Dual-Microcontroller IoT-Based Real-Time Monitoring System for Predictive Maintenance of Induction Motors	Ali Husein Alasiry (Politeknik Elektronika Negeri Surabaya, Indonesia & Institut Teknologi Sepuluh Nopember, Indonesia); Haqifal Hanesta Saidya and Niam Tamami (Politeknik Elektronika Negeri Surabaya, Indonesia)
9	16:15 - 16:30	1571162016	Integrated Multi-Model AI Architecture for Battery Health Monitoring and Maintenance of Electric Vehicle Based on Federated Learning	Jelia Anita, Dedid Cahya Happyanto and Akhmad Hendriawan (Politeknik Elektronika Negeri Surabaya, Indonesia)
10	16:30 - 16:45	1571163063	Numerical Study of The Effect of Hole Adding in Heatsinks On Photovoltaic Cooling	Neha Helmay Putri (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Lohdy Diana, Nu Rhahida Arini, Arrad Ghani Safitra and Marshanda Batari Jasmine (Politeknik Elektronika Negeri Surabaya, Indonesia)

Date August 5, 2025
 Location Room 4 Innovation 2
 Track 05. [IES-KCIC] Knowledge Base and Engineering
 06. [IES-KCIC] Computational Intelligence
 Moderator Dr. Agus Indra Gunawan

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571147316	Forecasting Climate Variables and Their Impact on Food Crop Productivity in Java, Indonesia Using Seasonal GSTAR and Prophet Models	Arya Pratama, Ronny Susetyoko and Edi Satriyanto (Politeknik Elektronika Negeri Surabaya, Indonesia); Alfi Fadliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Firman Arifin (Politeknik Elektronika Negeri Surabaya, Indonesia)
2	14:00 - 14:15	1571163633	RBAC-Enabled Secure Data Transmission Architecthure for Electric Vehicles in the IoV Context	Muhammad Habibie Putra Syanie (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	14:15 - 14:30	1571144750	A Stacking Ensemble Model of VAR, Dynamical System, and LSTM for Bivariate Forecasting of Humidity and Temperature in a Melon Greenhouse	Ronny Susetyoko (Politeknik Elektronika Negeri Surabaya, Indonesia); Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Isbat Uzzin Nadhori (Politeknik Elektronika Negeri Surabaya - Indonesia, Indonesia); Elly Purwantini (Lecturer, Indonesia); Firman Arifin, Budi Nur Iman and Ardik Wijayanto (Politeknik Elektronika Negeri Surabaya, Indonesia); Alfi Fadliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Eru Puspita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
4	14:30 - 14:45	1571155533	Development of a Real-Time Workout Validation and Repetition Counting Application Using YOLO-Based Human Pose Estimation	Lifita Annisa Husaina, Rosiyah Faradisa and Prasetyo Wibowo (Politeknik Elektronika Negeri Surabaya, Indonesia); Grezio Arifiyan (Institut Teknologi Sepuluh Nopember & Politeknik Elektronika Negeri Surabaya, Indonesia)
5	14:45 - 15:00	1571174366	Process-Based Performance Analysis of Construction Tendering in Indonesia Using Real-World Event Logs	Ferial Hendrata, Iwan Vanany, Patdono Suwignjo and Nurhadi Siswanto (Institut Teknologi Sepuluh Nopember, Indonesia)

No	Time	Paper ID	Paper Title	Authors
6	15:00 - 15:15	1571163171	Optimizing Ledger Query Performance: A Mango-Composite Key Adaptive Strategy for Blockchain-based Supply Chain Systems	Fabiano Abbey Karo Sekali, Favian Dewanta and Yudha Purwanto (Telkom University, Indonesia)
	15:15 - 15:45	Coffee Break		
7	15:45 - 16:00	1571169721	Accelerating Data Source Integration with CleanApps: A Low-Code Approach using Clean Architecture and Design Patterns	Umi Saadah, Adam Shidqul Aziz, Desy Intan Permatasari and Nailus Nailus Nailussa'ada (Politeknik Elektronika Negeri Surabaya, Indonesia); Maulidan Bagus Afridian Rasyid and Ahmad Jarir At Thobari (SimHive Group, Indonesia); Marits Ikmal Yasin (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	16:00 - 16:15	1571169726	An Educational App Builder Based on Atomic Design: Enhancing UI Development Learning for Beginner Students in Vocational Programming	Adam Shidqul Aziz, Ahmad Shonhaji and Umi Saadah (Politeknik Elektronika Negeri Surabaya, Indonesia); Maulidan Bagus Afridian Rasyid (SimHive Group, Indonesia); Desy Intan Permatasari and Nailus Nailus Nailussa'ada (Politeknik Elektronika Negeri Surabaya, Indonesia)
9	16:15 - 16:30	1571152593	Development of a Vehicle Classification for Multi Lane Free Flow Using The EfficientDet Model	Ellsa Christy Maharani, Faridatun Nadziroh and Nihayatus Sa'adah (Politeknik Elektronika Negeri Surabaya, Indonesia); Haniah Mahmudah (Politeknik Elektronika Negeri Surabaya & Institut Teknologi Sepuluh Nopember, Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia)

Date August 5, 2025
 Location Room 5 Genteng 1
 Track 05. [IES-KCIC] Knowledge Base and Engineering
 06. [IES-KCIC] Computational Intelligence
 07. [IES-KCIC] Applied-Computing Sciences
 Moderator Prof. M. Udin Harun Al Rasyid

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571145982	A Social Impact Calculation and Visualization Method for the Discontinuation of Public Transportation	Suzuto Kirishima and Shiori Sasaki (Musashino University, Japan)
2	14:00 - 14:15	1571146664	Real-Time Flood Early Warning System in River Basin: Integrating IoT Sensor Networks and Machine Learning Algorithms	M. Udin Harun Al Rasyid (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Arif Basofi (Politeknik Elektronika Negeri Surabaya, Indonesia); Grezio Arifiyan (Institut Teknologi Sepuluh Nopember & Politeknik Elektronika Negeri Surabaya, Indonesia); Weny Mistarika Rahmawati (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	14:15 - 14:30	1571146804	Indonesia Tourism Sentiment Analysis Based on Social Media Using Large Language Model	Entin Martiana Kusumaningtyas (Politeknik Elektronika Negeri Surabaya - Indonesia, Indonesia); Ali Ridho Barakbah, Arna Fariza and Zulqhi Fahri Muda (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	14:30 - 14:45	1571169765	Design and Evaluation of a Modular Backend Architecture for a Mobile App Builder Evaluated with the McCall Software Quality Model	Umi Saadah, Adam Shidqul Aziz, Desy Intan Permatasari and Nailus Nailussa'ada (Politeknik Elektronika Negeri Surabaya, Indonesia); Ahmad Jarir At Thobari, Maulidan Bagus Afridian Rasyid and Arga Rafi Inal Murtadho (SimHive Group, Indonesia)
5	14:45 - 15:00	1571145591	Integrating NANDA-I Diagnoses with Functional Health Patterns: A Semantic Similarity Approach	Takahiro Kubo (University of Musashino, Japan)
6	15:00 - 15:15	1571147311	A Comparative Evaluation of SMOTE Placement Strategies for Multi-Class Traffic Complaint Classification Using SVM	Faradilla Nur Azizah and Agus Sulistya (Telkom University, Indonesia); Berlian Rahmy Lidiawaty (Telkom University, Indonesia & Institut Teknologi Telkom Surabaya, Indonesia)
	15:15 - 15:45	Coffee Break		
7	15:45 - 16:00	1571143405	Bus Travel Time Prediction in Bandung City Utilizing ANN Algorithm	Ananda Ardy Garini, Achmad Rizal and Khilda Afifah (Telkom University, Indonesia)

No	Time	Paper ID	Paper Title	Authors
8	16:00 - 16:15	1571163619	Comparative Analysis of Deep Learning Architecture for Short-Term Energy Forecasting in Fluctuating Industrial Time Series	Firlana Khanif Amanna (Politeknik Elektronika Negeri Surabaya, Indonesia); Arif Irwansyah (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Budi Nur Iman (Politeknik Elektronika Negeri Surabaya, Indonesia)
9	16:15 - 16:30	1571162115	Multi-Class Focus Level Classification for Robotic Microscope Using Image Metrics and Machine Learning	Muhammad Irfan Tam Tomo and Riyanto Sigit (Politeknik Elektronika Negeri Surabaya, Indonesia); Tita Karlita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Heny Yuniarti (Institut Teknologi Sepuluh Nopember, Indonesia & Politeknik Elektronika Negeri Surabaya, Indonesia)
10	16:30 - 16:45	1571147107	Aspect-Based Sentiment Analysis of Public Responses to Free Nutritious Meal (MBG) Policy Implementation Using Deep Learning	Wahyu Nurharjadmo, Mutiara Auliya Khadija and Faizatul Ansoriyah Faiz (Universitas Sebelas Maret, Indonesia)

Date August 5, 2025
Location Room 6 Genteng 2
Track 06. [IES-KCIC] Computational Intelligence
Moderator Dr. Tessy Badriyah

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571147105	A Comparative Evaluation of LDA and BERTopic for Topic Modeling of Traffic Complaints in Short Social Media Texts	Alya Selvia Tamzila and Agus Sulistya (Telkom University, Indonesia); Berlian Rahmy Lidiawaty (Telkom University, Indonesia & Institut Teknologi Telkom Surabaya, Indonesia)
2	14:00 - 14:15	1571145516	Improving Shrimp Seed Counting Performance using YOLOv5 and Super Resolution Method	Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Setyo Wahyu Trianto (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	14:15 - 14:30	1571145458	Explainable and Optimized Machine Learning Models for Diabetes Prediction	Tessy Badriyah (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Andri Permana Wicaksono (Jember State Polytechnic, Indonesia & JL. Mastrip 164 Jember East Java, Indonesia); Elizabeth A Amalo (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	14:30 - 14:45	1571156861	Cross-Emotion Model for Touch Behavior	Ivana Yudith Walujo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Kosuke Takano (Kanagawa Institute of Technology, Japan); Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
5	14:45 - 15:00	1571147297	Empirical Evaluation of the BRL Method for Enhancing Indonesian Complaint Text Classification Model	Berlian Rahmy Lidiawaty (Telkom University, Indonesia & Institut Teknologi Telkom Surabaya, Indonesia); Faradilla Nur Azizah, Alya Selvia Tamzila and Haqiqi Pamungkas Arby Putra (Telkom University, Indonesia); Adzanil Rachmadhi Putra (Institut Teknologi Telkom Surabaya, Indonesia); Helmy Widyantara (Telkom University, Indonesia)
6	15:00 - 15:15	1571169639	Merchant Review Analysis in Food Delivery Apps: LSTM-Based Sentiment and Dual-Model Topic Classification with LLM and Logistic Regression	Tri Hadiah Muliawati, Nabilatulhawa, Fitrah Maharani Humaira, Rengga Asmara and Arna Fariza (Politeknik Elektronika Negeri Surabaya, Indonesia)

No	Time	Paper ID	Paper Title	Authors
	15:15 - 15:45	Coffee Break		
7	15:45 - 16:00	1571168795	Plant Pest Diseases Detection System in Rice Field Based on Aerial Mapping using Deep Learning	Aries Pratiarso (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Aldrich Fathul Choir Mukti Wibowo, Mochammad Zen Samsono Hadi and Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	16:00 - 16:15	1571160880	Low Contrast Enhancement for Facial Feature Expression	Cindy Cetta Khairunnisa (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
9	16:15 - 16:30	1571156885	An Automated Traffic Violation Detection System Based on YOLOv5	Entin Martiana Kusumaningtyas (Politeknik Elektronika Negeri Surabaya - Indonesia, Indonesia); Ahmad Syauqi Ahsan (Politeknik Elektronika Negeri Surabaya & PENS, Indonesia); Troy Fredellus Ardystama (Politeknik Elektronika Negeri Surabaya, Indonesia)
10	16:30 - 16:45	1571147110	Exploring the Efficacy of Deep Residual Networks and CNN-ELM for Arrhythmia Classification in Lead II ECG	Mohamad Yani and Eka Sari Oktarina (Telkom University, Surabaya Campus, Indonesia); Ubaidillah Ubaidillah (Universitas Negeri Sebelas Maret Surakarta, Indonesia); Putri Wahyu Herlina (PT. Tetra Solusi Perdana, Indonesia); Helmy Widyantara (Telkom University, Indonesia); Naoyuki Kubota (Tokyo Metropolitan University, Japan)

Date August 6, 2025
Location Room 1 Tunjungan A
Track 03. [IES-ETA] Telecommunication Engineering Technology
Moderator Prof. Mochammad Zen Samsono Hadi

No	Time	Paper ID	Paper Title	Authors
1	13:00 - 13:15	1571155221	Design Investigation and Fabrication of Fractal Köch Microstrip Antenna for Digital Television Reception Applications	Budi Aswoyo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Muhammad Habibullo Arif (The Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Citra Murdaningtyas (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
2	13:15 - 13:30	1571156801	Soil Fertility Classification on Smart Agriculture GIS Application Using a Decision Tree Model	Giran Arisdi, Afifah Dwi Ramadhani and Mochammad Zen Samsono Hadi (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	13:30 - 13:45	1571156971	Communication Performance Evaluation of SBC-to-Server Data Transfer in a Road Management System	Ilham Ahmad Reza Pahlevi (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Aries Pratiarso (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Faridatun Nadziroh (Politeknik Elektronika Negeri Surabaya, Indonesia); Haniah Mahmudah (Politeknik Elektronika Negeri Surabaya & Institut Teknologi Sepuluh Nopember, Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	13:45 - 14:00	1571156842	Implementation Multi User Secret Key Generation In Outdoor Environment To Secure Image Transmission	Riyadh Hadinah Ahtar Lakadimu (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
5	14:00 - 14:15	1571163328	A Smart Logging System with High Accuracy for Industrial Welding Activity Monitoring Based on A High Dimensional Feature Classification System	Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mike Yuliana and Mohammad Basuki Rahmat (Politeknik Elektronika Negeri Surabaya, Indonesia)
6	14:15 - 14:30	1571143474	Analyzing MORNeS Protocol for Secure Key Exchange with BAN Logic	Khairil Ahmad (Telkom University, Indonesia); Jafaruddin Gusti Amri Ginting (IT Telkom Purwokerto, Indonesia); Cahya Damarjati (Universitas Muhammadiyah Yogyakarta, Indonesia); Eko Fajar Cahyadi (Telkom University, Indonesia)

No	Time	Paper ID	Paper Title	Authors
7	14:30 - 14:45	1571153954	Implementation of V2V Communication Security on LoRa-Based Physical Layer Key Generation	Ezekiel Furqon Patongai and Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
8	14:45 - 15:00	1571163349	Enhancing Optical Network Performance: A Dense Wavelength Division Multiplexing-Based Comparative Analysis of Point of Presence in Middle Mile and Last Mile Network Infrastructure	Tizar Maulana and Nihayatus Sa'adah (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)

Date August 6, 2025
 Location Room 2 Tunjungan B
 Track 03. [IES-ETA] Telecommunication Engineering Technology
 07. [IES-KCIC] Applied-Computing Sciences
 Moderator Dr. Ferry Astika Saputra

No	Time	Paper ID	Paper Title	Authors
1	13:00 - 13:15	1571152455	Implementation of Digital Signatures and QR Codes for the Verification of Certificates of Authenticity for Diplomas	Annisa Nurfitriyanti Hidayat, Ahmad Zainudin and Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia)
2	13:15 - 13:30	1571164908	UAV Assisted NOMA System in Data Collection Wireless Sensor Network	Sinatrya Hudan Nur Fikri, Wirawan Wirawan and Ahmad Sirojuddin (Institut Teknologi Sepuluh Nopember, Indonesia)
3	13:30 - 13:45	1571153428	RSS Signal Processing for Secret Key Generation: A Comparison of Kalman Filtering and Quantization in Indoor Environments	Rahmadani Najwa, Mike Yuliana and Nailul Muna (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	13:45 - 14:00	1571145427	Enhancing Web Application Firewall with Ensemble Machine Learning to Detect SQL Injection Attacks	Abrar Ikramaputra (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Norma Ningsih (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia & PENS, Indonesia)
5	14:00 - 14:15	1571146805	Real-Time Vessel Monitoring Using Low Cost RTL-SDR with Web-Based AIS Visualization	Siti Khamilaton Nazila, Rizka Rasyida, Tri Budi Santoso, Titon Dutono and Inka Trisna Dewi (Politeknik Elektronika Negeri Surabaya, Indonesia)
6	14:15 - 14:30	1571146537	Development of a 3D Environment Representation System for Vehicles Using Sensor Fusion Techniques	Ramadhan Tegar Imansyah, Adytia Darmawan and Zaqiatud Darojah (Politeknik Elektronika Negeri Surabaya, Indonesia)
7	14:30 - 14:45	1571156877	Retrieval-Augmented Generation Based Question Answering System on Policy Documents	Hagan Sadina Rahman (Politeknik Elektronika Negeri Surabaya, Indonesia); Entin Martiana Kusumaningtyas (Politeknik Elektronika Negeri Surabaya - Indonesia, Indonesia); Tri Hadiyah Muliawati (Politeknik Elektronika Negeri Surabaya, Indonesia); Tita Karlita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)

No	Time	Paper ID	Paper Title	Authors
8	14:45 - 15:00	1571157026	Distributed Database Implementation using Citus for IT Asset Management System	M Roy Farchan and Ferry Astika Saputra (Politeknik Elektronika Negeri Surabaya, Indonesia); Yesta Mahardhika (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)

Date August 6, 2025
Location Room 3 Innovation 1
Track 06. [IES-KCIC] Computational Intelligence
Moderator Dr. Fernando Ardilla

No	Time	Paper ID	Paper Title	Authors
1	13:00 - 13:15	1571163470	Development of Navigation System on Humanoid Robot ERISA Using Compass Sensor	Aisha Zefanya Icha, Novian Fajar Satria, Eko Henfri Binugroho and Rachmat Santoso (Politeknik Elektronika Negeri Surabaya, Indonesia)
2	13:15 - 13:30	1571157571	Optimization of SSD MobileNet Model for Road Damage Detection System Using Grid Search Hyperparameter Tuning	Masitha Mirzaky Firdaus, Rahardhita Sudibyo and Afifah Dwi Ramadhani (Politeknik Elektronika Negeri Surabaya, Indonesia); Haniah Mahmudah (Politeknik Elektronika Negeri Surabaya & Institut Teknologi Sepuluh Nopember, Indonesia)
3	13:30 - 13:45	1571145437	Illegal Waste Dump Detection Using a Deep Learning Approach: Performance Evaluation of YOLO Architectures	Prasetyo Wibowo, Achmad Zahir Wajdi, Tri Hadiah Muliawati and Arna Fariza (Politeknik Elektronika Negeri Surabaya, Indonesia); Yasushi Kiyoki (Keio University, Japan)
4	13:45 - 14:00	1571118905	Leveraging LLM-Generated Lyrics Synthetic Dataset on Indonesian Song Lyrics Age Classification	Michael Natanael (Politeknik Negeri Jakarta, Indonesia); Bassamtiano Renaufalgi Irnawan and Yoshimi Suzuki (University of Yamanashi, Japan)
5	14:00 - 14:15	1571156416	A Semi-Supervised Machine Learning Framework for Detecting Political Hoaxes Based on Keyword-Guided Clustering	Sayfudin Sayfudin (Universitas Sriwijaya, Indonesia & Universitas Muhammadiyah Palembang, Indonesia); Deris Stiawan (University of Sriwijaya, Indonesia); Ferdiansyah Ferdiansyah (Universitas Indo Global Mandiri & Universiti Teknologi Malaysia, Indonesia); Andri Wijaya (Universitas Sriwijaya & Universitas Katolik Musi Charitas, Indonesia); Anto Satriyo Nugroho (National Research and Innovation Agency, Indonesia); Siti Hajar Othman (Universiti Teknologi Malaysia (UTM), Malaysia & UTM, Malaysia)
6	14:15 - 14:30	1571156893	Simplifying Crop Health Assessment Problem Detection with Drones and Deep Learning	Shafwan Taqiyuddin Abror (Politeknik Elektronika Negeri Surabaya, Indonesia); Aries Pratiarso (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mochammad Zen Samsono Hadi (Politeknik Elektronika Negeri Surabaya, Indonesia)

No	Time	Paper ID	Paper Title	Authors
7	14:30 - 14:45	1571169439	Hybrid AI-IoT System for Real-Time Flood Prediction and Pump Automation in Urban Areas	Mohammad Khusnul Khuluq, Ninno (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Taufiqurrahman Taufiqurrahman (Politeknik Elektronika Negeri Surabaya, Indonesia); Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)

Date August 6, 2025
Location Room 4 Innovation 2
Track 06. [IES-KCIC] Computational Intelligence
07. [IES-KCIC] Applied-Computing Sciences
09. [IES-KCIC] Immersive Technology and Interactive Media
Moderator Dr. Riyanto Sigit

No	Time	Paper ID	Paper Title	Authors
1	13:00 - 13:15	1571156761	Emotion Translator in Conversational AI Based on Big Five Personality Profiles	Fuad Zaki Nurrahman (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Kosuke Takano (Kanagawa Institute of Technology, Japan); Hestiasari Rante (Politeknik Elektronika Negeri Surabaya, Indonesia)
2	13:15 - 13:30	1571146950	Evaluating Fisheye Vehicle Detection in YOLO Using Multi-Strategy Data Augmentation	Dwi Ahmad Dzulhijjah (Politeknik Elektronika Negeri Surabaya, Indonesia & Universitas Amikom Yogyakarta, Indonesia); Indra Kristiawan (Swiss German University & PT. Piranti Kecerdasan Buatan, Indonesia); Setiawardhana Setiawardhana and Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	13:30 - 13:45	1571156308	A Novel Hyperparameter Tuning Strategy Using Spider Monkey Optimization for Deep Neural Networks in Water Quality Prediction	Desy Lusiyanti (Brawijaya University, Indonesia & Tadulako University, Indonesia); Syaiful Anam and Wayan Firdaus Mahmudy (Universitas Brawijaya, Indonesia); Umu Sa'adah (Brawijaya, Indonesia)
4	13:45 - 14:00	1571169749	Implementation of a Transparent Blockchain-based Zakat Management System for Sustainable Islamic Finance in Indonesia	Izzuddin Ahmad Afif (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Willy Achmat Fauzi (Institut Teknologi Sepuluh Nopember, Indonesia)
5	14:00 - 14:15	1571146104	Automated Cardiac Disease Classification from Portable Ultrasound Images Using Deep Learning	Riyanto Sigit (Politeknik Elektronika Negeri Surabaya, Indonesia); Rika Rokhana (Politeknik Elektronika Negeri Surabaya, Indonesia & Institut Teknologi Sepuluh Nopember, Indonesia); Tita Karlita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Taufiq Hidayat (Faculty of Medicine, Airlangga University, Indonesia)
6	14:15 - 14:30	1571146941	Multi-Class Multi-Level Classification of Mental Health Workers Using Random Forest Method	Putri Zahrafi Anam (Telkom University Surabaya, Indonesia); Mochamad Nizar Palefi Ma'ady (Telkom University, Indonesia); Berlian Rahmy Lidiawaty (Telkom University, Indonesia & Institut Teknologi Telkom Surabaya, Indonesia)

Date August 6, 2025
 Location Room 5 Genteng 1
 Track 06. [IES-KCIC] Computational Intelligence
 08. [IES-KCIC] Intelligent Multimedia Systems
 Moderator Dr. Sritrusta Sukaridhoto

No	Time	Paper ID	Paper Title	Authors
1	13:00 - 13:15	1571157059	Optimizing YOLO for Road Surface Damage Detection with Hyperparameter Optimization Method	Alif Virdio Yudhistira Widyawan and Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Aries Pratiarso (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Haniah Mahmudah (Politeknik Elektronika Negeri Surabaya & Institut Teknologi Sepuluh Nopember, Indonesia)
2	13:15 - 13:30	1571156478	Gamification Interaction in Augmented Reality Application for Robotics Education	Muhammad Fauzan Arief, Hestiasari Rante and Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	13:30 - 13:45	1571145538	Adaptive Boosting and Cascade Classifier based Human Detection and Tracking using Laser Range Sensor	Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia); Bayu Sandi Marta (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	13:45 - 14:00	1571169686	The Survey of Model Scale Impact on Knowledge Distillation Efficiency in LLM	Setiawan Budiman (Institute Teknologi Sepuluh Nopember Surabaya, Indonesia); Siti Rochimah (Institut Teknologi Sepuluh Nopember Surabaya, Indonesia); Daniel Siahaan (Institut teknologi Sepuluh Nopember, Indonesia)
5	14:00 - 14:15	1571145528	Recognition of Tooth Types and Tooth Conditions using YOLO and Combination WLD & HOG - SVM	Bima Sena Bayu Dewantara, Riyanto Sigit and Meisin Catur Wandira (Politeknik Elektronika Negeri Surabaya, Indonesia)
6	14:15 - 14:30	1571157563	Usability Evaluation of a Crowdsourced Disaster and Psychosocial Support Platform for Gen Z Users	Widi Sarinastiti (Electronic Engineering Polytechnic Institute of Technology, Indonesia); Rengga Asmara, Halimatus Sa'dyah, Bherna Yughes Mahara and Veronica Lita Hapsari (Politeknik Elektronika Negeri Surabaya, Indonesia)

Date August 6, 2025
Location Room 6 Genteng 2
Track 03. [IES-ETA] Telecommunication Engineering Technology
06. [IES-KCIC] Computational Intelligence
Moderator Dr. Tri Budi Santoso

No	Time	Paper ID	Paper Title	Authors
1	13:00 - 13:15	1571154019	Implementation of a Secret Key Generation System for Static Multi-User Communication in Indoor Wireless Networks	Naufal Fattah Rizqi (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
2	13:15 - 13:30	1571156431	Selection of Effective Data Length in HDLC Frames with UHF Channel FSK Transmission System	Ika Yulistya Ciptaningrum, Dzira Laudza Zahranee, Tri Budi Santoso and Titon Dutono (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	13:30 - 13:45	1571145494	Enabling Security and Anonymity in The Internet of Vehicle Using Group Signature with Pseudonym Identity Hopping	Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Haniah Mahmudah (Politeknik Elektronika Negeri Surabaya & Institut Teknologi Sepuluh Nopember, Indonesia); Nihayatus Sa'adah (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	13:45 - 14:00	1571163510	Performance Analysis of Low-Cost AIS Receiver Using RTL-SDR and Raspberry Pi: A Study on Minimum Field Strength and Optimal Gain	Rizka Rasyida, Siti Khamilatun Nazila, Titon Dutono, Tri Budi Santoso and Inka Trisna Dewi (Politeknik Elektronika Negeri Surabaya, Indonesia)
5	14:00 - 14:15	1571155669	Efficient Three-Party ID-Based Authenticated Key Exchange Protocol for Mobile Computing Environments using Pairing-Based Cryptography	Wildan Dharma Walidaniy (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia)
6	14:15 - 14:30	1571143316	Throughput Assessment of HTTP/3 (QUIC)-based Protocol on OpenLiteSpeed Web Server	Ubaidillah Nur Hadiano (Telkom University, Indonesia); Jafaruddin Gusti Amri Ginting (IT Telkom Purwokerto, Indonesia); Dadiék Pranindito (Institut Teknologi Telkom Purwokerto, Indonesia); Eko Fajar Cahyadi (Telkom University, Indonesia)

Date August 5, 2025
 Session Poster
 Location Poster Session and Exhibition
 Time 12:30 - 13:45
 Moderator Dias Agata

No	Paper ID	Paper Title	Authors
1	1571156342	Road Defect Detection with Pothole Parameters using Optimized YOLO Model	Benito Yvan Deva Putra Arung Dirgantara (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Aries Pratiarso (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Haniah Mahmudah (Politeknik Elektronika Negeri Surabaya & Institut Teknologi Sepuluh Nopember, Indonesia)
2	1571153595	Performance Analysis of Group Secret Key Generation in an Outdoor Environment Using Channel Estimation Method	Farel Hafiz Mustafa and Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
3	1571147192	Implementation of Gamification in an Augmented Reality Application for Learning Batik	Dwi Mulyo, Hestiasari Rante and Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	1571169313	Development and Performance Analysis of a Tracking Antenna System for Low Earth Orbit Satellite Reception	Immanuel Deo Tumiwa, Titon Dutono and Paramita Wahyu Eka Lestari (Politeknik Elektronika Negeri Surabaya, Indonesia)
5	1571136390	Comparative Evaluation Using Backbone Architecture Cascade Mask R-CNN for Robust Waste Instance Segmentations	Faiq Riestiansyah Fawwazain, Prasetyo Wibowo and Ali Ridho Barakbah (Politeknik Elektronika Negeri Surabaya, Indonesia)
6	1571157148	Mapping of Agricultural Land to Detect Plant Disease Pests Based on Drone	Gita Pratama Ardinata (Politeknik Elektronika Negeri Surabaya, Indonesia); Aries Pratiarso (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mochammad Zen Samsono Hadi (Politeknik Elektronika Negeri Surabaya, Indonesia)
7	1571169553	Automatic Translation of Indonesian Sign Language Based on Multimodal Technology Recognition	Yanuar Risah Prayogi and Ali Ridho Barakbah (Politeknik Elektronika Negeri Surabaya, Indonesia); Azhrul Azim Ripai (Politeknik, Indonesia & Politeknik Elektronika Negeri Surabaya, Indonesia); Arna Fariza (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	1571147320	Real - Time Image Stitching for Application in Advanced Driver Assistance Systems	I Made Arya Wirawan Wardhana, Bima Sena Bayu Dewantara and Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
9	1571147040	Enhancing Cooling Uniformity in BTMS: Numerical Evaluation of Gradient-Width Mini-Channel Designs for Prismatic Batteries	Muhammad Muslih Hidayatullah and Teguh Hady Ariwibowo (Politeknik Elektronika Negeri Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic

No	Paper ID	Paper Title	Authors
			Engineering Polytechnic Institute of Surabaya (EPEIS), Indonesia); Hendrik Elvian Gayuh Prasetya and Muhammad Rizani Rusli (Politeknik Elektronika Negeri Surabaya, Indonesia)
10	1571146796	Implementation of Data Communication System Using HDLC Protocol with CRC-16 Based Error Detection on a Transceiver Platform	Dzira Laudza Zahranee, Ika Yulistya Ciptaningrum, Tri Budi Santoso and Titon Dutono (Politeknik Elektronika Negeri Surabaya, Indonesia)
11	1571168925	Road Damage Detector Based on Vibration and Trajectory Using CNN-LSTM Algorithm	Elly Purwantini (Lecturer, Indonesia); Arif Irwansyah (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Rezy Abyan Al Maula (Politeknik Elektronika Negeri Surabaya, Indonesia)
12	1571169762	A Modular App Builder for Agile Product-Based Learning Using JSON-Driven Code Generation	Adam Shidqul Aziz, Umi Saadah, Desy Intan Permatasari and Nailus Nailus Nailussa'ada (Politeknik Elektronika Negeri Surabaya, Indonesia); Maulidan Bagus Afridian Rasyid (SimHive Group, Indonesia); Nicholas Adhyatma Surya Kusuma (Politeknik Elektronika Negeri Surabaya, Indonesia)
13	1571162774	Enhancing Gateway Placement in Buoy Monitoring Systems: A Comparative Study of EPSO and Hybrid PSO-GA Optimization	Sultan Syahputra Yulianto, Nihayatus Sa'adah, Rahardhita Sudibyo, Nailul Muna and Faridatun Nadziroh (Politeknik Elektronika Negeri Surabaya, Indonesia)
14	1571152495	Implementation of V2I Communication Security in LoRa Based Key Generation Scheme	Habib Hammam Kurniawan (The Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Mike Yuliana (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
15	1571147094	Multiclass Detection of Third Molar Impaction on Panoramic Radiograph Using Convolutional Neural Network	Yuliana Setiowati, Arna Fariza and Maritza Retno Dwianti (Politeknik Elektronika Negeri Surabaya, Indonesia); Ramadhan Hardani Putra and Eha Renwi Astuti (Universitas Airlangga, Indonesia)

Date August 6, 2025
 Session Poster
 Location Poster Session and Exhibition
 Time 11:45 - 13:00
 Moderator Dias Agata

No	Paper ID	Paper Title	Authors
1	1571147009	A Secure Real-Time Digital Twin Framework for Smart Building Automation Using IoT and Blockchain Technology	Wahyu Nur Hidayat and Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia); Rizqi Putri Nourma Budiarti (Universitas Nahdlatul Ulama Surabaya, Indonesia); Oktafian Sultan Hakim, Agus Prayudi and Andhik Ampuh Yunanto (Politeknik Elektronika Negeri Surabaya, Indonesia)
2	1571163000	Impact of Kalman Filter on Backpropagation Neural Network for State of Charge Estimation in Buoy Batteries	Salma Azka Nurbaity, Nihayatus Sa'adah and Faridatun Nadziroh (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Karimatun Nisa and Nailul Muna (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	1571156737	Smartphone-Based Platform for Monitoring Rice Field Conditions Using IoT and Cloud Integration	Elham Cahya Rahmadani, Nailul Muna and Mochammad Zen Samsono Hadi (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	1571169562	Benchmark of Clean Water Classification Based on Water Quality Index using Deep Learning	Achmad Habibie Fattahillah and Prasetyo Wibowo (Politeknik Elektronika Negeri Surabaya, Indonesia); Entin Martiana Kusumaningtyas (Politeknik Elektronika Negeri Surabaya - Indonesia, Indonesia); Rosiyah Faradisa (Politeknik Elektronika Negeri Surabaya, Indonesia)
5	1571163442	IoT-Based QR Code Detection System for Space Occupancy Optimization In Smart Warehouse Facing Market Disruption	Raihan Azwan, Vinsensia Rachel Nadine, Okkie Puspitorini and Paramita Wahyu Eka Lestari (Politeknik Elektronika Negeri Surabaya, Indonesia)
6	1571156780	Implementation of A Heterogen Multi User Key Generation System In An Indoor Environment	Ghufron Ahmad Noor, Mike Yuliana and Haryadi Amran Darwito (Politeknik Elektronika Negeri Surabaya, Indonesia)
7	1571156153	Implementation of Scrum Framework in Modern Software Development Projects	Maulana Bintang Irfansyah, Bilal Waheed, Idris Winarno and Akhmad Alimudin (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	1571136392	Real-Time Monitoring and TDS Forecasting in Smart Hydroponic Melon Cultivation Using SES and LSTM Methods	Nur Qomariyah Agustina, Ronny Susetyoko, Widita Trisniani and Santi Anggraini (Politeknik Elektronika Negeri Surabaya, Indonesia)
9	1571169316	Real-time Water Quality Monitoring on a Virtual Reality Platform as a Climate Action Support System	Fitratama Alfarezi, Sritrusta Sukaridhoto, Hestiasari Rante, Ray Yusra Wijaya, Mochammad Ikhsan Ramadhoni and Muhammad Rayhan Adifan (Politeknik Elektronika Negeri Surabaya, Indonesia)
10	1571154526	Secure and Real-Time Behavior Prediction of Elderly Data Using	Richard Susilo (Electronic Engineering Polytechnic Institute of Surabaya,

No	Paper ID	Paper Title	Authors
		RSA-AES Hybrid Encryption and ANN with Backpropagation Method	Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Tri Budi Santoso (Politeknik Elektronika Negeri Surabaya, Indonesia)
11	1571169166	Spatial-Temporal Visualization of Tuberculosis Vulnerability in Surabaya, Indonesia, Using K-Means Clustering	Alfira Putri Nurlita, Arna Fariza, Rengga Asmara and Fitrah Maharani Humaira (Politeknik Elektronika Negeri Surabaya, Indonesia)
12	1571163325	Sa'i Route Tracking Using Latitude Longitude Computation: e-Muthawif	Haryadi Amran Darwito (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Devy Sabrina Dayana (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
13	1571162857	Development of a GSM-Based Monitoring System for Buoy: Enhancing Real-Time Data Transmission and Wide-Range Connectivity	Yosef Nayotama Gamgenora and Nihayatus Sa'adah (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina and Aries Pratiarso (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Karimatun Nisa (Politeknik Elektronika Negeri Surabaya, Indonesia)
14	1571157077	Classification Of Plant Disease Pests Based On Smart Edge Devices Using Deep Learning Methods	Alfiansyah Firdan Mahendra and Mochammad Zen Samsono Hadi (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
15	1571156382	Effects of Kalman Filtering on KNN-Based Classification in RFID-Enabled Smart-Lab Real-Time Energy Monitoring	Mohamad Fachry Ali (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)

Date August 5, 2025
 Location Zoom 1
 Track 01. [IES-ETA] Power Engineering and Energy Technology
 03. [IES-ETA] Telecommunication Engineering Technology
 Moderator Prof. Mike Yuliana

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571163556	Design of Frequency Scanning Narrow Wall Slotted Waveguide for Mortar Locating Radar	Muh. Fakhri and Joko Suryana (Institut Teknologi Bandung, Indonesia)
2	14:00 - 14:15	1571145768	Investigation of Connector Factor in Designing A Single Element Microstrip Antenna within the Ku-Band Spectrum	Muhammad Athallah Adriansyah (Universitas Indonesia, Indonesia); Aditya Inzani (Universitas Indonesia, Indonesia & National Research and Innovation Agency, Indonesia); Catur Apriono (Universitas Indonesia, Indonesia)
3	14:15 - 14:30	1571141149	IoT-Based Smart Hydroponics for Automated Nutrient, Climate, Irrigation, and Health Monitoring	C.A. Bogahawatta (Sri Lanka Institute of Information Technology & Millennium IT ESP, Sri Lanka); M.a.m. Ashik, D.r.i.p. Dassanayake, M.r.d. Perera, Anuradha Jayakody and Narmada Gamage (Sri Lanka Institute of Information Technology, Sri Lanka)
4	14:30 - 14:45	1571134956	Real-Time Monitoring Of Multi-Stack Open-Cathode PEM Fuel Cell Using CANBus	Dimas Akbar Ferdiansyah (Institut Teknologi Sepuluh Nopember, Indonesia); Katherin Indriawati (Institut Teknologi Sepuluh Nopember Surabaya & Faculty of Industrial Technology, Indonesia); Virliana Septi Permatasari (Institut Teknologi Sepuluh Nopember, Indonesia); Muhammad Khamim Asy'ari (Sepuluh Nopember Institute of Technology, Indonesia)
5	14:45 - 15:00	1571145712	Hybrid Renewable Energy Microgrid Design Optimization of Karimunjawa Island Using Intelligent Algorithm	Mario Norman Syah, Rizky Ajie Aprilianto, Agus Suryanto and Abdurrahman Hamid Al-Azhari (Universitas Negeri Semarang, Indonesia)
6	15:00 - 15:15	1571147227	A Systematic Review of Smart Grid Information Systems for Integrating Renewable Energy in Urban Environments	Alaric Rasendriya Aniko (TelkomUniversity, Indonesia); Ilham Syarief Roem Mohamad, Fairuz Fernanda Hermawan and Yuli Adam Prasetyo (Telkom University, Indonesia)
	15:15 - 15:45	Coffee Break		

No	Time	Paper ID	Paper Title	Authors
7	15:45 - 16:00	1571145863	Single-Wearable Sensor-Based Elderly Fall and Activity Recognition Using CNN-biLSTM: A Comparative Study with CNN, LSTM, and CNN-LSTM	Iwan Kurnianto Wibowo (Institut Teknologi Sepuluh Nopember, Indonesia & Politeknik Elektronika Negeri Surabaya, Indonesia); Chastine Fatichah (Sepuluh Nopember Institute of Technology, Indonesia); Nanik Suciati (Institut Teknologi Sepuluh Nopember, Indonesia); Muchammad Ainun Fakhri Sholakhudin (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	16:00 - 16:15	1571142061	Comparison of Fuzzy Matching and Naïve Bayes for Dialogue Design in Visual Novel	Artiarini Kusuma Nurindiyani (Sepuluh Nopember Institute of Technology, Indonesia); Mochamad Hariadi (Sepuluh Nopember Institute of Tech. Surabaya, Indonesia); Erma Suryani (ITS, Indonesia); Halimatus Sa'dyah and Zulhaydar Fairozal Akbar (Politeknik Elektronika Negeri Surabaya, Indonesia)
9	16:15 - 16:30	1571161479	Contextual Awareness System for Landslide Risk Recommendation in Crypto-Spatial	Djarot Hindarto (Institut Teknologi Sepuluh Nopember, Indonesia); Fardani Annisa Damastuti (Politeknik Elektronika Negeri Surabaya, Indonesia); Reza Fuad Rachmadi and Mochamad Hariadi (Institut Teknologi Sepuluh Nopember, Indonesia)

Date August 5, 2025
 Location Zoom 2
 Track 06. [IES-KCIC] Computational Intelligence
 07. [IES-KCIC] Applied-Computing Sciences
 Moderator Dr. Idris Winarno

No	Time	Paper ID	Paper Title	Authors
1	13:45 - 14:00	1571167153	The Ember Convergence Coefficient (ECC): A Proposed Statistical Framework for Evaluating Deep Learning Models	Dimitri Aulia Rasyidin and Putu Harry Gunawan (Telkom University, Indonesia)
2	14:00 - 14:15	1571147256	Digital Transition and Artificial Intelligence for Good: Towards Ethical and Sustainable Energy Consumption?	David R. C. Hill (University of Clermont Auvergne, France)
3	14:15 - 14:30	1571156333	An Empirical Ablation Study of Activation Functions in U-Net for Colorectal Polyp Segmentation	Endah Purwanti, I Ketut Purnama and Eko Mulyanto Yuniarno (Institut Teknologi Sepuluh Nopember, Indonesia)
4	14:30 - 14:45	1571146206	Survey of the Performance of Classification Algorithms on Heart Disease Datasets: A Systematic Literature Review	Adi Suwondo (Amikom University, Indonesia); Kusri Kusrini and Ema Utami (Universitas AMIKOM Yogyakarta, Indonesia); Kumara Ari Yuana (Universitas Amikom Yogyakarta, Indonesia)
5	14:45 - 15:00	1571156244	Explainable and Lightweight Machine Learning Model for Cardiomegaly Detection from Chest X-Ray Images	Muhammad Masdar Mahasin (Department of Physics, Brawijaya University); Agus Naba (University of Brawijaya, Indonesia); Chomsin Sulistya Widodo (Brawijaya University, Indonesia); Yuyun Yueniwati (Universitas Brawijaya, Indonesia)
6	15:00 - 15:15	1571119016	Claim-Evidence Assessment Method for Indonesian Fake News Detection	Heical Chandra Syahputra (Politeknik Negeri Jakarta); Bassamtiano Renaufalgi Irnawan, Fumiyo Fukumoto and Yoshimi Suzuki (University of Yamanashi, Japan)
	15:15 - 15:45	Coffee Break		
7	15:45 - 16:00	1571156933	Regularized Lightweight One-dimensional Convolutional Neural Networks for Efficient and Accurate Pollutant Classification	Muhammad Arif Syahmi Md Dzahir and Kim Seng Chia (Universiti Tun Hussein Onn Malaysia, Malaysia)
8	16:00 - 16:15	1571157195	Integrating Potentiostat Measurements and Ensemble Learning for Water Pollution Estimation	Rizqy Ahsana Putri, Riyanarto Sarno, Wahyu Prasetyo Utomo, Dwi Sunaryono and Taufiq Choirul Amri (Institut Teknologi Sepuluh Nopember, Indonesia)

No	Time	Paper ID	Paper Title	Authors
9	16:15 - 16:30	1571162616	Automated Tuberculosis Detection in Chest X-Rays Using Inception-Based CNN Architectures	Fikri Alinfijar and Putu Harry Gunawan (Telkom University, Indonesia)

Date August 6, 2025
 Location Zoom 1
 Track 05. [IES-KCIC] Knowledge Base and Engineering,
 06. [IES-KCIC] Computational Intelligence
 Moderator Prof. Mike Yuliana

No	Time	Paper ID	Paper Title	Authors
1	13:30 - 13:45	1571163613	Microservices-Based System for Automated Data Collection, Sentiment Analysis, and Visualization in Video Game Reviews Across Multiple Platforms	Muhammad I. Effendy, Rafie Djajasoepeana, Muhammad Johan Alibasa and Patrick Lingga (Sampoerna University, Indonesia); Ian Coston (The University of Arizona, USA); Wandy Wandy (Sampoerna University, Indonesia)
2	13:45 - 14:00	1571132977	Retrieval with Semantic Query Expansion using Context-based Graph Approaches	Diana Purwitasari (Institut Teknologi Sepuluh Nopember, Indonesia); Maryamah Maryamah (Universitas Airlangga, Indonesia); Shafa Kirana Mulia and Ilham Gurat Adillion (Institut Teknologi Sepuluh Nopember, Indonesia)
3	14:00 - 14:15	1571132984	Measuring Influencer Status based-on Context of Social Media Texts	Bobbi Aditya, Shafa Kirana Mulia, Dini Adni Navastara, Diana Purwitasari and Ilham Gurat Adillion (Institut Teknologi Sepuluh Nopember, Indonesia)
4	14:15 - 14:30	1571147123	Integrating Efficient Channel Attention Plus into ConvNeXt Network for Remote Sensing Image Scene Classification	Herdito Ibnu Dewangkoro, Arif Rohmadi and Ery Permana Yudha (Universitas Sebelas Maret, Indonesia)
5	14:30 - 14:45	1571118972	The Impact of Gamification on Strava Application Users in Indonesia: User Perspectives and Digital Behavior	Ryan Nathan Utama (Bina Nusantara University, Indonesia); Elfindah Princes (Binus University, Indonesia)

Date August 6, 2025
 Location Zoom 2
 Track 06. [IES-KCIC] Computational Intelligence
 07. [IES-KCIC] Applied-Computing Sciences
 08. [IES-KCIC] Intelligent Multimedia Systems
 Moderator Dr. Idris Winarno

No	Time	Paper ID	Paper Title	Authors
1	14:30 - 14:45	1571144384	Wavelet-MFCC and LSTM-Based Speech Recognition for Cleft Lip and Palate	Syahroni Hidayat, Tatyantoro Andrasto, Febry Putra Rochim, Mulil Khaira, Muhammad Hilmy Herdiansyah, Faila Nadhifatul Aryza and Abdulloh Abdulloh (Universitas Negeri Semarang, Indonesia)
2	14:45 - 15:00	1571142236	A Knowledge-Based Comparative Analysis of EV Adoption: Strategic Insights from Chery Automobile and Morris Garage in Indonesia	Addis Rheza Firmansyah, Muhammad Ridlo Imaduddin Rahman, Gabriel Bhrmara Wilasita and Iyus Maulana Mulyawan (Universitas Indonesia, Indonesia)
3	15:15 - 15:30	1571147109	VR Immersive Learning for Mechanical TVET Workshop: Design Considerations	Mohammad Khairul Shaleh Md Asari (Universiti Kuala Lumpur, Malaysia); Norhaida Mohd Suaib (Universiti Teknologi Malaysia, Malaysia); Mohd Haffis Abd Razak (Majlis Amanah Rakyat, Malaysia); Muhammad Ezra Muhammad Ismail, Muhamad Syafiq Fikri Nordin and Mahfuzah Mohaidin (Universiti Kuala Lumpur, Malaysia); Muhammad Safwan Kamson (Paradox Digital, Malaysia)
4	15:30 - 15:45	1571146956	Groundwater Quality Prediction Using Deep Neural Networks with Principal Component Analysis Based Feature Reduction and K-Fold Cross Validation	Wigbertus Ngabu (Mathematics, Indonesia & Brawijaya University, Indonesia); Henny Pramoedyo and Atiek Iriany (Brawijaya University, Indonesia); Rahma Fitriani (University of Brawijaya, Indonesia)