



2023 The 6th International Conference on Vocational
Education and Electrical Engineering (ICVEE)

PROGRAM SCHEDULE

***2023 SIXTH INTERNATIONAL CONFERENCE ON VOCATIONAL EDUCATION AND
ELECTRICAL ENGINEERING (ICVEE)***

Day/date	Time*	Agenda	Venue	
October 14th 2023	07.00 – 08.00	Registration	Onsite	
	08.00 – 08.05	Indonesia National Anthem and Mars UNESA	Onsite	
	08.05 – 08.10	Welcome Speech by General Chair ICVEE 2023 (Pradini Puspitaningayu, S.T., M.T., Ph.D)	Onsite	
	08.10 – 08.20	Foreword by Vice Rector of Research, Community Service, Publication, Innovation and Rankings. (Junaidi Budi Prihanto, Ph.D.)	TBD	
	08.20 – 08.25	Foreword by IEEE Indonesia Section (Prof. Gamantyo Hendranto)	TBD	
	08.25 – 08.30	Foreword by Communication Society Indonesia Chapter (Dr. Bambang Setia Nugroho)	TBD	
	Announcement for Best Paper of ICVEE 2023			
	08.30 – 09.15	Keynote Speech 1 Prof. Erica Smith - Council of Deans of Education Vocational Education Group, Secretary of the Australian Vocational Education and Training Research Association (AVETRA), and co-chair of the international network for Innovative Apprenticeships (INAP) Keynote Speech Title: “Characteristics of a good vocational teacher: Evidence from Australian research” (Moderator: Roswina Dianawati, S.Pd. M.Ed.)	Virtual	
	09.15 – 10.00	Keynote Speech 2 Yuliar Firdaus, Ph.D. - Solar Cell Research and optoelectronics National Research and Innovation Agency (BRIN) Keynote Speech Title: "Perspective and future challenge of organic solar cells for green technology applications" (Moderator: Roswina Dianawati, S.Pd. M.Ed.)	Virtual	
	Coffee break			
10.30 – 11.15	Keynote Speech 3 Prof. Dr. Bambang Suprianto, M.T. - Professor of Power Electronics Dept. of Electrical Engineering State University of Surabaya Keynote Speech Title: “AC-DC Three Phase IGBT Converter-based On Voltage Sourced” (Moderator: I Kadek Dwi Nuryana, S.T., M.Kom.)	Virtual		



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11.15 – 12.00	Keynote Speech 4 Prof. Mohammed Lazaar, Ph.D. - Professor of Computer Sciences and Artificial Intelligence, Rabat IT Center & Smart Systems Laboratory ENSIAS, Mohammed V University, in Rabat (Morocco) Keynote Speech Title: “Performance of Artificial Neural Network for Enhanced Security in the Internet of Things” (Moderator: I Kadek Dwi Nuryana, S.T., M.Kom.)	Virtual
12.00 – 13.00	Lunch Break	
13.00 – 14.40	Parallel Session 1	Hybrid
14.40 – 15.00	Coffee Break	
15.00 – 16.40	Parallel Session 2	Hybrid

Day/date: Saturday, October 14th, 2023

Link: <https://zoom.us/j/92331169375?pwd=a3gzY2Y5Ym5xa1RzM1FwemxoTm43QT09>

Meeting ID: 923 3116 9375

Passcode: 496196

***Time zone: UTC+7 (Western Indonesia Time)**

Parallel Session Schedule


Saturday, October 14th 2023

Hybrid at Best Western Hotel Papilio, Surabaya

No	Time slot	Room 1 LaceSwing 1 Dr. Rr. Hapsari Peni Agustin	Room 2 LaceSwing 2 Sayyidul Alamsyah, M.T.	Room 3 LaceSwing 3 Ramadhan Wibawa, M.Kom.
1	13.00 - 13.15	Fuzzy Clustering Method in Price Gold (A'yunin Sofro)	Fractional Order Proportional Integral Derivative Based on Sea Horse-Optimizer as DC Motor Control* (Widi Aribowo)	An Implementation of Android Programming Self-Learning Topic for Developing Online Database Application Using Firebase (Yan Syaifudin)
2	13.15 - 13.30	Recommendation System Using Deep Learning-Based Sentiment Analysis (Ikram Karabila)	Improved Droop Control Parameters in A DC Microgrid Using the Marine Predator Algorithm* (Widi Aribowo)	Implementing Graph-Based Grammar Subject Self-Study in Adaptive English Personalized Learning System: A Design and Its Evaluation (Siti Rohani)
3	13.30 - 13.45	Using Sentiment Analysis to Spot Trending Products (Nossayba Darraz)	Maximum Power Observation of Small Wind Power System Based on Non-Isolated Buck-Boost Type DC-DC Converter (Rizki M. Ariefianto)	Development of the Solar Cell On-Grid System 40wp as a Learning Tool for Renewable Energy (Subuh Haryudo)
4	13.45 - 14.00	Covid-19 Early Diagnosis Based on Transfer Learning and Modified CNN Architecture (Zul Indra)	Voltage Regulation of Buck Converter in DC Microgrid Using Energy Valley Optimizer* (Rifqi Firmansyah)	Development of Be-Braille Learning Tool: Enhancing Braille Education and Interaction for Visually Impaired Students (Ayu Adista Nurul Izza)
5	14.00 - 14.15	Classification via Clustering for Subject-Based Scientific Fields in Kindergarten Students (Yuni Yamasari)	A Modified Design of the Gas Flow Channel Model for the Proton Exchange Membrane Fuel Cells: A Three-Dimensional Simulation (Rif'ah Amalia)	A Random Forest Algorithm for Predicting Computer Programming Skills Associated with Learning Styles (Yeni Anistyasari)
6	14.15 - 14.30	Analysis of User Satisfaction of the PeduliLindungi Application Using UTAUT 2 Model (Unified Theory of Acceptance and Use of Technology) (Rahadian Bisma)	A High Accurate Multi Objective Hunger Games Search Algorithm for Environmental Economic Dispatch Issues (Hussanin Tahir)	Exploring the Boundless Potential of Deep Learning in Gender Prediction from Indonesian Names (Novianto Rahmadi)
7	14.30 - 14.45	Implementation of Convolutional Neural Network in the Development	Development Modified Long Short Term Memory Model for Prediction Power	



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		of Object Recognition System (Ricky Putra)	Electrical Photovoltaic on Grid (Unit Kartini)	
8	14.45 - 15.00	Activation Function Comparison on Potato Disease Classification Performance (Laras Suciningtyas)	The Design and Implementation of a Waypoint-Based Autonomous Control System on a Low-Level Controller for Self-Driving Vehicles (Ali Alasiry)	
	15.00 - 15.15	BREAK		
9	15.15 - 15.30	New Approach Motion Determination in Pencak Silat Sport Using Self Organizing Map (Lilik Anifah)	Towards Personalized Fitness App with Multi-Modal Wearable Heart Rate Monitors: A Proposal (Alfian Nugraha)	
10	15.30 - 15.45	Feedback Analysis of Learning Evaluation Using the Latent Dirichlet Allocation (Ibnu Daqiqil Id)	Linear Controller Design Using Pole Placement Method for Nonholonomic Mobile Robot Trajectory Tracking (Indrazno Siradjuddin)	Special Tutorial by ComSoc Indonesia Chapter Speech: 1. Dr. Muhammad Ary Murti. 2. Dr. Alfin Hikmaturokhman 
11	15.45 - 16.00	A Cross-Sampling Method for Hidden Structure Extraction to Improve Imbalanced Multiclass Classification Accuracy (Wiyli Yustanti)	Design and Implementation of 2-DOF Arm Manipulator Robot as Robotic Kinematic Learning Platform (Parama Widayaka)	
12	16.00 - 16.15	Tracking Position on GPS Smart Buoy System Using LoRa Communication (Nihayatus Sa'adah)	Design and Implementation of an Automatic Warning System for Waiting Chairs to Enforce Physical Distancing Protocols	
13	16.15 - 16.30			

*Online presentation

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Saturday, October 14th 2023

Virtual Breakout Room on Zoom Meeting

No	Time Slot	Breakout room 1 Ghea Sekar Palupi, M.Kom	Breakout room 2 Martini Susanti, M.Kom	Breakout room 3 Naim Rochmawati, M.Kom
1	13.00 - 13.15	Comparison and Prediction Analysis for Fundamental Risk of U.S Import and Economy Seafood Market (Muhammad Fanani)	Conception of Quadruple Frequency Microstrip Patch Antenna for Wireless Communication 4G and 5G (Mouna Khadiri)	The Influence of Load on the Oil Index for Treatment Recommendations (Rohmanita Duanaputri)
2	13.15 - 13.30	Optimizing Tabu List in Tabu Search Algorithm for Efficient and Optimal Scheduling (Herri Bukhori)	Design and Analysis of Optical Fiber Network on Trans Sulawesi Railway via Makassar-Parepare (Abdurrahman Zufar)	Design of the Sepic-Cuk Solar Combination Converter for Low Power Solar Cells (Fifi Sholihah)
3	13.30 - 13.45	Identification of Air Pollution Levels Based on Sky Image Using Color Histogram Method (Sofika Enggari)	Performance Prediction and Waveform Properties of Passive Coherent Location Radar Systems in the Tarakan Area (Syahfrizal Tahcfulloh)	Mitigating Partial Shading Effects in Photovoltaic Arrays Using a Switch Matrix: Design, Modeling, and Performance Evaluation (Hasan Ahmed)
4	13.45 - 14.00	An Investigation of Running Load Comparisons of ARCore on Native Android and Unity for Outdoor Navigation System Using Smartphone (Komang Brata)	Optimization Based Random Forest Algorithm Modification for Detecting Monkeypox Disease (Abdullah Salim)	Experimental Validation of Smart Nano Grid System in Intelligent Grid Integration for Energy Independent Campus Realization (Muhammad Bagaskoro)
5	14.00 - 14.15	Application of K-Means Algorithm for Clustering Regions Based on Sanitation Level: A Case Study in Bangka Regency, Indonesia (Rosalia Trisanti)	Batik Pattern Classification Using Decision Tree Based on Color-Texture Features (Anindita Septiarini)	A Prototype Development and Implementation of a Fast Lithium Battery Packs Active On-Load Balancing System (Salam Hussein)
6	14.15 - 14.30	Comprehensive Evaluation of Encryption Algorithms: A Study of 22 Performance Tests (Safa Alsadi)	Portable Alcohol Detector Using Interactive Lcd Display and Android Interface (Ahmad Fauzan 'Adziimaa)	Performance Enhancement of the PV System Based on Hybrid Reconfiguration Strategies Under Non-Uniform Irradiance Conditions (Salim A.A. Al-Azawy)
7	14.30 - 14.45	Improving Coal Commodity Stock Price Forecasting Using Combined Linear	Gain Scheduling Control for a Quadrator Based on PD (Razika Boushaki)	Battery Charge Controller Using Artificial Neural Network-Pi (ANN-PI)



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		Models via Artificial Neural Network (Mega Silfiani)		Algorithm for Various Voltages Rate (Restu A.F. Santika)
8	14.45 - 15.00	A Cross-Platform Implementation of Indoor Navigation System Using Unity and Smartphone INSUS (Evianita Dewi Fajrianti)	Design of a Prototype of a Hand Bionic Prosthesis with Independent Mobility and Three-Dimensional Rotation of the Wrist Controlled by sEMG Sensors (Yover Hilario Garcia)	
15.00 - 15.15		BREAK		
9	15.15 - 15.30	A Study of Grammar-Concept Understanding Problem for Flutter Cross-Platform Mobile Programming Learning (Abdul Patta)	An Implementation of Hand Gesture Exergames for Dementia Development Suppression (Irin Anggraini)	Identifying Strawberry Ripeness Level Using Camera for Cartesian Robot Application Based on Microcontroller (Syahri Muharom)
10	15.30 - 15.45	A Study of Audio-To-Text Conversion Software Using Whispers Model (Amma Liesvarastranta Haz)	Hybrid Cryptography and Steganography with Rivest Shamir Adleman and End of File Algorithm (Rinci Kembang Hapsari)	Analysis of CO Pollutant Monitoring System Using MAPPI32 LORA in Bekasi City (Legenda Pratama)
11	15.45 - 16.00	Implementation of Digital Filter Functions in Edge Device Framework for IoT Application System (Yohanes Y. F. Panduman)	An Improve KNN Method for Classification of Sexually Transmitted Diseases (Tutuk Indriyani)	Non-Invasive Measurement of Blood Glucose Levels Using Linear Regression and Clark Error Grid Analysis Methods (Daffa Alam)

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Sunday, October 15th 2023

On Zoom Meeting

No	Time Slot	Title
1	10.10 – 10.25	Comparative Analysis of Random Forest and Support Vector Classifier for Student Risk Assessment: A Case Study of Colegio de Getafe (Alvin Remolado)
2	10.25 – 10.40	Electrooculogram-Based Sleepiness Detection Using Artificial Neural Network (ANN) Technique (Fauziyyah Zakiyyah)
3	10.40 – 10.55	Development of SQL Similarity with Multiple Answer Keys for the Automated Assessment Process in the SQLearn Application (Putra Arhandi)
4	10.55 – 11.10	A Novel Hybrid Architecture of Conditional Tabular Generative Adversarial Network and 1D Convolution Neural Network for Enhanced Attack Detection in IoT Systems (Omar Habibi)
5	11.10 – 11.25	Multi-Inverter Coordinated Control on AC Microgrid for Increased Load Power (Adhi Kusmantoro)
		Viability of the Wind Turbine and Solar Power Plant in Higitangan Island Naval, Biliran

Session Chair: Parama Widayaka, M.T.

Day/date: Sunday, October 15th, 2023

Link: <https://zoom.us/j/96531250244?pwd=UnRXMW56YWZaT09Zd05hSnR5V2hYQT09>

Meeting ID: 965 3125 0244

Passcode: 695677

***Time zone: UTC+7 (Western Indonesia Time)**