



IICAET 2024 TECHNICAL PROGRAM

DAY 1: 26 AUGUST 2024

VENUE: PACIFIC SUTERA HOTEL, KOTA KINABALU

A1: Image Processing and Object Detection Session Chair: Dr. Rosalyn R Porle

Time (MYT)	Paper ID	Paper Title
9:45	59	Development of a Baybayin Words Recognition System Using Support Vector Machine <i>Kyeong Nan C. Gim, Fiona S. Nabua and Meo Vincent C. Caya</i>
10:00	172	An Efficient Intersection Over Union Algorithm with Angle Orientation for an Improved 3D Object Detection <i>Sazan Ali Kamal Mohammed, Mohd Zullhakimi Ab Razak, Abdul Hadi Abd Rahman and Maria Abu Bakar</i>
10:15	212	Generating and Integrating Diffusion Model-Based Panoramic Views for Virtual Interview Platform <i>Jongwook Si, Seongeun Yang, Jeyong Song, Seungjae Son, Sangjin Lee, Daemin Kim and Sungyoung Kim</i>
10:30	272	Classification of Pathogenic Molds on Peanuts using Image Processing and CNN <i>Madelaine S. Indino, Adryll Dustin C. Rosario and Jocelyn F. Villaverde</i>
10:45	343	Machine Learning-Based Classification of Termite Genera <i>Sundresan Perumal, Homathevi Rahman, Valliappan Raman, R Subramanian, T Bala Saatvik, G S Deepakkumar and R Roghan</i>
11:00	180	ECG Cardiac Abnormality Signal Classification using HMLP Network <i>Shazreen Shaharuddin, Nur Izzani Mat Rozi, Maizatullifah Miskan, Fakroul Ridzuan Hashim, Mohd Salman Mohd Sabr and Siti Noormiza Makhtar</i>

A2: Data-Driven Anomaly Detection and Monitoring Session Chair: Dr. Yoong Hou Pin

Time (MYT)	Paper ID	Paper Title
10:00	132	Real-time Acoustic Based Anomaly Detection of Composite Specimen using Convolutional Autoencoder <i>Iqraq Kamal, Veronica Lestari Jauw, Sivadas Chandra Sekaran, Kan Ern Liew, Jee Hou Ho and Chin Seong Lim</i>
10:15	125	A Combined Distance Metric Approach with Weight Adjustment for Improving Mixed Data Clustering Quality <i>Aung Pyae, Yeh-Ching Low and Hui Na Chua</i>
10:30	339	Non-Intrusive Biomass Estimation in Aquaculture using Structure from Motion within Decision Support Systems <i>Nyjak Tien Tang, Kit Guan Lim, Hou Pin Yoong, Fui Fui Ching, Tianlei Wang, Kenneth Tze Kin Teo</i>
10:45	340	AIoT-Driven Machine Learning for Anomaly Detection in Structural Health Monitoring <i>Lorita Angeline, Kit Guan Lim, Min Keng Tan, Muhd. Nur Afnan Uda, Joaquim Abel Jenarun and Kenneth Tze Kin Teo</i>
11:00	290	Integrating AI with Conventional X-ray Inspection for Improved Solder Void Detection in SSDC SiC Modules <i>Muhammad Haikal Mohd Sa'at, Muhammad Herman Jamaluddin, Muhammad Irshat Mohamed Ameerudin, Ahmad Zaki Shukor, Tarmizi Ahmad Izuddin, Masrullizam Mat Ibrahim, Muhamad Shafiq Sukiman</i>

B1: AI in Transportation and Navigation Session Chair: Dr. Lorita Angeline		
Time (MYT)	Paper ID	Paper Title
14:00	81	Vehicle Detection Based on Improved YOLOv8 <i>Chin Hong Lim, Connie Tee and Kah Ong Michael Goh</i>
14:15	252	Trajectory Planning of Stratosphere Airship in Wind-Cloud Environment Based on Soft Actor-Critic <i>Yanfeng Wang, Baojin Zheng, Wenjie Lou, Liran Sun and Chao Lv</i>
14:30	279	Adaptive Traffic Signal Control using Genetic Algorithm for a 2x2 Traffic Network <i>Min Keng Tan, Shun Quan Chai, Helen Sin Ee Chuo, Kit Guan Lim, Hui Hwang Goh and Kenneth Tze Kin Teo</i>
14:45	281	Utilisation of the Dijkstra Algorithm to Determine the Shortest Path on Universiti Malaysia Sabah's Main Campus in Kota Kinabalu <i>Masitha Raziah Binti Henri, Shaliza Hayati A. Wahab, Salmah Fattah, Nordin Saad, Nur Athirah Maisarah Binti Tambrin, Nur Farah Izzati Binti Jamaluddin, Sherlyn Ong Shu Shien and Zarra Soffea binti Ghazalie</i>

B2: Forecasting and Predictive Models Session Chair: Ir. Dr. Chua Bih Lii		
Time (MYT)	Paper ID	Paper Title
14:00	92	Long-Term Load Forecasting Based on Hybrid CEEMDAN-SSA-BiGRU-Attention Model <i>Jiajian Lin, Lit Yen Yeo, Yuting Sheng, Mehran Motamed Ektesabi, Jalal Tavalaei and Hadi Nabipour Afrouzi</i>
14:15	182	Transformer Health Index Monitoring using Supervised Prediction Model <i>Afzan Zamzamin, Nazrul Fariq Makmor, Ja' Afar Adnan, Azharudin Mukhtaruddin, Ardiata Septiana and Yulni Januar</i>
14:30	325	Ensemble Machine Learning Method for Health Insurance Premium Prediction <i>Lee Sijie, Florence Sia, Rayner Alfred and Ervin Gubin Mounq</i>
14:45	341	CNN-LSTM Neural Network-based Short-term PV Power Generation Forecaster <i>Siti Nurfadilah Binti Jaini, Deugwoo Lee and Choong Wai Heng</i>

C1: Cryptography and Security Session Chair: Ts. Dr. Tan Soo Fun		
Time (MYT)	Paper ID	Paper Title
15:15	25	User Authentication with Keystroke Dynamics: Performance Evaluation in Neural Network <i>Xin-Jin Kek, Yu-Beng Leau and Soo Fun Tan</i>
15:30	166	Research Issues and Challenges in the Computational Development of Trustworthy AI <i>Shahina Begum, Mobyen Uddin Ahmed, Shaibal Barua, Md Alamgir Kabir and Abu Naser Masud</i>
15:45	311	Enhancing Electronic Document Security with Lightweight Digital Signature <i>Tan Soo Fun, Nur Sufia Binti Ahmad Zulkifli, Florence Sia and Lai Po Hung</i>
16:00	318	Enhanced Authentication Protocol for Securing Internet of Medical Things with Lightweight Post-Quantum Cryptography <i>Chris Ka Man Lo, Soo Fun Tan and Gwo Chin Chung</i>

C2: Optimization Strategies Session Chair: Assoc. Prof. Dr. Renee Chin Ka Yin		
Time (MYT)	Paper ID	Paper Title
15:15	119	Optimizing Masked Face Recognition: A Tailored CNN Integrates with Different Classifiers <i>Yo Ming Chun, Chong Siew Chin and Chong Lee Ying</i>
15:30	215	Copy-Move Forgery Detection Optimization using Harmony Search with Clonal Selection Algorithm <i>Mohd Hanafi Ahmad Hijazi and Ezlyn Sherlyn Josmin</i>
15:45	327	Yield Optimization for Exothermic Batch Processes using Particle Swarm Optimization <i>Min Keng Tan, Matthew Laurentius Bansing, Huiyi Xu, Helen Sin Ee Chuo, Heng Jin Tham and Kenneth Tze Kin Teo</i>
16:00	283	Enhancing Face Detection Accuracy with VGG16 Neural Network and Data Augmentation <i>Min Keng Tan, Jun Shen Chin, Renee Ka Yin Chin, Lorita Angeline, Chung Fan Liau and Kenneth Tze Kin Teo</i>



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DAY 2: 27 AUGUST 2024
VENUE: PACIFIC SUTERA HOTEL, KOTA KINABALU

D1: AI in Medical and Healthcare Session Chair: Dr. Lai Po Hung		
Time (MYT)	Paper ID	Paper Title
10:15	113	Vision Transformer-Based Breast Mass Diagnosis in Mammography Using Bilateral Information <i>Tianyu Zeng, Zhang Zhang, Yuwen Zeng, Xiaoyong Zhang, Kei Ichiji and Noriyasu Homma</i>
10:30	191	Web-Based Medical Information System for Stroke Rehabilitation Internet-of-Things (RIOT) Patients: A Prototype <i>Nurul Hanis Mohd Dhuzuki, Ahmad Anwar Zainuddin, Saidatul Izyanie Kamarudin, Dini Handayani, Krishnan Subramaniam and Mohd. Izzuddin Mohd. Tamrin</i>
10:45	304	Superficial Wound Classification Using CNN Image Classifier for Initial Wound Care <i>Sitti Wan Fazirah Ambo'Miri, Lai Po Hung, Florence Sia Fui Sze and Tan Soo Fun</i>

E1: AI-Enhanced Control and Inspection Session Chair: Dr. Helen Chuo Sin Ee		
Time (MYT)	Paper ID	Paper Title
11:30	121	Force Control and Slip Detection for a Non-Backdrivable Robotic Gripper <i>Joseph Joshy, Bijo Sebastian and Asokan Thondiyath</i>
11:45	323	Structural Optimization Design of the Rotary Blowout Preventer Shell Based on an Adaptive Sand Cat and Whale Optimization Algorithm <i>Tian Haijiang, Hou Pin Yoong, Bih Lii Chua and Ismail Saad</i>
12:00	321	Distance Recognition Using QR Code Marker <i>Ian Jian Yi Lee, Hou Pin Yoong, Kenneth Tze Kin Teo and Chang Yii Chai</i>
12:15	331	Adaptive Exponential Feeding Control for a Fed-batch Yeast Fermentation Process Using Reinforcement Learning <i>Khairul Aznizam Sodiwal, Wan Ying Chai, Min Keng Tan, Kenneth Tze Kin Teo and Heng Jin Tham</i>

F1: AI in Network and Localization Systems Session Chair: Dr. Aroland M'Conie Jilui Kiring		
Time (MYT)	Paper ID	Paper Title
14:00	115	COLREGs Inspired Decentralised Path Planning for Multi-Agent System <i>Eshant Jha, Abhilash Somayajula, Don Gideon, Sayooj P Raveendran and Bijo Sebastian</i>
14:15	133	Improved FBVANET Based on Hierarchical Stability Rate <i>Ahmad Firdaus Muhammad Melvin, Ismail Ahmedy and Saaidal Razalli Azzuhri</i>
14:30	335	Ant Colony Optimization based Multi-Hop Wireless Transmission for Enhanced Network Reliability <i>Kit Guan Lim, Mohd Fikry Fazri bin Sakimin, Longxin Wei, Min Keng Tan, Soo Siang Yang and Kenneth Tze Kin Teo</i>
14:45	342	Evaluation of Theoretical and Empirical Log-Normal Models for WiFi Fingerprint Mapping in Indoor Positioning <i>Mohamed Aizad Bin Mohamed Ghazali, Aroland Kiring, Lyudmila Mihaylova, Hoe Tung Yew, Seng Kheau Chung and Yan Yan Farm</i>

G1: AI Innovations in Diverse Domains Session Chair: Dr. Florence Sia Fui Sze		
Time (MYT)	Paper ID	Paper Title
15:15	105	A Multilingual BERT Embeddings Approach in Identifying Factors Influencing Employability among Pre-University Students <i>Theng-Jia Law, Choo-Yee Ting, Hu Ng, Hui-Ngo Goh and Quek Albert</i>
15:30	128	Spam Review Detection in E-Commerce using Machine Learning <i>Muhammad Na'im Rizali, Marshima Mohd Rosli and Nur Atiqah Sia Abdullah</i>
15:45	245	Correlation Study of Ripe and Rotten Citrus Fruits Using Neuro-Fuzzy Algorithm <i>Erinn Chloe F. Sanchez and Jocelyn F. Villaverde</i>
16:00	296	Optimized Convolutional Neural Network Using Genetic Algorithm for Music Genre Classification <i>Hana Magdalena Yumil, Florence Sia, Tan Soo Fun and Lai Po Hung</i>
16:15	333	Predictive Maintenance using Deep Reinforcement Learning <i>Aravind Supramaniam and Sharifah Sakinah Syed Ahmad</i>



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DAY 3: 28 AUGUST 2024
VENUE: ONLINE

H1: Agricultural Disease Detection Session Chair: Assoc. Prof. Dr. Jamal Ahmad Dargham		
Time (MYT)	Paper ID	Paper Title
09:00	35	YOLOv5-Based Image Processing for Pineapple Rind Defect Detection <i>Joseph Kenneth G. Manzano, Joel Aldrin P. Ea and Meo Vincent C. Caya</i>
09:15	85	Defect Classification of Green Coffee Beans Using YOLOv8 <i>Giulliano I. Suarez, Nicolas Irvin A. Cubilla and Carlos C. Hortinela IV</i>
09:30	224	Plant Leaf Diseases Classification Using SVMs, XGBoost, and CNNs Based Texture Features <i>Abdullah Kamal Sami and Khamael Al-Dulaimi</i>
09:45	276	Unmanned Aerial Vehicle-enabled Deep-Learning Based Detection and Segmentation <i>Denmel Paul S. Saavedra and Alonica R. Villanueva</i>
10:00	278	Development of a Computer Vision Application for Mango (<i>Mangifera indica</i> L.) Fruit Defect Detection Using YOLOv8 Architecture <i>Kaycee Kaye Villanueva, Juvy Amor M. Galindo, Apple Joy R. Tamayo, Jamie Eduardo C. Rosal and Daryl Ivan E. Hisola</i>
10:15	305	Optimizing Citrus Leaf Disease Detection: An Efficient Custom CNN Leveraging Efficient Training Parameters <i>Mahir Faisal Chowdhury, Amit Nondi, Sium Ubn Akhter, Tanjina Bilma Pathan and Dewan Ziaul Karim</i>

H2: Human Motion Analysis Session Chair: Ts. Dr. Norfararianti Parimon		
Time (MYT)	Paper ID	Paper Title
09:00	145	A Motion Capture Quality Comparison Between Rokoko and Kinect <i>Monica M.Q. Li</i>
09:15	171	Position-Specific Batting Role Assignment and Player Ranking Using Ensemble Learning <i>R. A. R. S. Rajapaksha and B. M. T. Kumarika</i>
09:30	235	LLM based Enhanced Form Checker for Weight Training Exercises <i>Sudhir Manivannan, Yuwan Pradhan, Zain Muhammed, H. Pooja and R. Bharathi</i>
09:45	271	Enhancing Exercise Efficacy: A Predictive EMG Analysis for Dumbbell Press Workouts <i>Pranav T Pattanashetty, Shreya Chaurasia, Sujatha R Upadhyaya and Ramesh Debur Visweswara</i>
10:00	286	A Cancellable Semi-Supervised Gait Recognition in 5G: The Future of Biometric <i>Joyce Tlhoolebe, Neo Rafifing, Pulafela Akofhang Majoo, Oabile Lesley Boitshoko and Tlamelo Emmanuel</i>

H3: Disease Detection and Diagnosis Techniques Session Chair: Dr. Gohar Rahman		
Time (MYT)	Paper ID	Paper Title
09:00	27	A Neural Network Learning Approach Using ConvNet Models to Consolidate Corneal Ulcer Detection in Ophthalmology <i>Md Kaviul Hossain</i>
09:15	149	Machine Learning Approach for Early Diagnosis of Alzheimer's Disease Using rs-fMRI and Metaheuristic Optimization with Functional Connectivity Matrices <i>Yusuf Bahri Özçelik, Aytaç Altan and Ceren Kaya</i>
09:30	248	Augmented Deep Learning for Enhanced Early Brain Tumor Detection <i>Abeer Elkhoully, Mahmoud Kakouri, Mohamed Safwan and Obada Al Khatib</i>
09:45	266	A Deep Learning Based Ensemble Approach for Gastrointestinal Disease Detection with XAI <i>Dewan Ziaul Karim, Tasfia Anika Bushra and Shoaib Ahmed Dipu</i>
10:00	303	Cervical Cancer Detection Using Deep Learning on Liquid-Based Cytology Pap Smear Images <i>Adya Bharadwaj and Atul Dubey</i>

H4: Agriculture and Plant Classification Session Chair: Ir. Dr. Mazlina Mamat		
Time (MYT)	Paper ID	Paper Title
09:00	34	Ornamental Plant Classification System Using Image Processing and Machine Learning <i>Miguel Q. Deveraturda, David Ronin D. Reyes, Meo Vincent C. Caya</i>
09:15	57	Smart Agriculture with Enhanced Accuracy for Fruit Detection Using Conv2D <i>Yashfa Kamran, Mahnur Tauqeer, Moiz Ahmad, Syed Muhammad Hamza Tauqeer</i>
09:30	83	A Neural Network Approach to Enhance Data Quality and Network Lifetime in IoT-based Smart Agriculture <i>Abhishek Bajpai, Shalinee Sahu, Naveen Tiwari, Anita Yadav</i>
09:45	140	Ripeness Classification of Lycopersicon Esculentum Employing Faster Region-based Convolutional Neural Network with Inception Version 2 <i>Shane Patrick A. Panilag, Jamie Eduardo C. Rosal, Apple Joy R. Tamayo, Juvy Amor M. Galindo, Cesar A. Tecson</i>
10:00	312	Image Recognition of Different Hamster Breeds Using Convolutional Neural Networks <i>Allen Paulo S. Estrella, Francis Miguel O. Lucban, Meo Vincent C. Caya</i>
10:15	317	Wood Type Classification Through Image Processing Using YOLOv8 <i>Lorenzo, Emmanuel D., Cruz, Sean Gabriel J., Manlises, Cyrel O.</i>

I1: Emotion and Mental Health Analysis Session Chair: Assoc. Prof. Ts. Dr. Chin Kim On		
Time (MYT)	Paper ID	Paper Title
10:45	300	A Multi-Modal Approach for Predicting Depression Risk using Social Media Data <i>Alexander, Mei Kuan Lim and Weng Kin Lai</i>
11:00	142	Revolutionary Depression Detection Methodology Employing BERT on Social Media Platforms <i>Anuraag Raj, Zain Ali, Shonal Chaudhary, Kavitesh Kumar Bali and Anuraganand Sharma</i>
11:15	150	Bengali Speech Sentiment Analysis using Machine Learning Models: A Comparative Study <i>Mohammad Tanveer Shams, Md. Akib Hasan, Animesh Das Chowdhury, Tabassum Jahan Lamia, Md. Reasad Zaman Chowdhury and Mohammad Marufur Rahman</i>
11:30	211	Stacked Bi-LSTM for Advanced Toxicity Detection in Comment Classification <i>Naveen Kumar, Prabhakaran Abraham, Syed Ibrahim Kaliba, V.C. Dinesh, R. Maruthamuthu, Balamurugan Murugan, P.Seshu Kumar and Naveen Vekkudu</i>
11:45	265	Speech Emotion Recognition in Filipino Spoken Language Using Deep Learning <i>Sally G. Corpus and Alonica R. Villanueva</i>
12:00	280	Optimizing Temporal Segmentation of Multi-Modal Non-EEG Signals for Human Stress Analysis <i>Gowtham G Iyer, Radhagayathri Udhayakumar, Shivapratap Gopakumar and Chandan Karmakar</i>

I2: Visual Recognition and Classification Systems Session Chair: Dr. Herwansyah Lago		
Time (MYT)	Paper ID	Paper Title
10:45	73	Bridging Visual Representation and Efficiency for Resource-Constrained Devices <i>Adityam Ghosh, Xinfeng Ye and Sathiamoorthy Manoharan</i>
11:00	147	Real-time Recognition of Malagasy Banknotes (Ariary) <i>Miandrisoa Hoby Randriatsarafara, Volatiana Marielle Ratianantitra and Thomas Mahatody</i>
11:15	256	Pants Style Classification Using YOLOv8: An Approach for Enhanced Detection of Pants <i>Ivan Matthew R. Chan, Marvin Druce T. Hao and Cyrel O. Manlises</i>
11:30	273	A Hybrid Model for Deciphering Doctors Handwriting Notes Recognition <i>Santosh Khanal and Rabindra Bista</i>
11:45	288	Transformer Tracking Using Spatiotemporal Features <i>J. Kugarajeevan, T. Kokul, A. Ramanan and S. Fernando</i>
12:00	306	A Machine Learning Framework for Change Detection with Remote Sensing images <i>Josephina Paul</i>

I3: Predictive Analytics and Models Session Chair: Ts. Dr. Tan Min Keng		
Time (MYT)	Paper ID	Paper Title
10:45	56	Predicting Student's Success in Programming Courses: A Decision Support System for Admission in Computer Science and Information Technology Programs <i>Jaydee C. Ballaho</i>
11:00	64	Predictive Analysts and Time Series Forecasting Using Different Algorithm Machine and Deep Learning for Financial Market <i>Samah S Laftah and Sinan A Diwan</i>
11:15	159	Real-time Production Rescheduling with Machine Breakdown Using Genetic Algorithm-Adaptive Large Neighborhood Search Algorithm <i>Tran Ngoc Minh Tu, Chawalit Jeenanunta and Pisit Chanvarasuth</i>
11:30	165	Predicting Power Outages in Baghdad City Using Deep Learning Techniques <i>Saja Jafar Jawad and Shaymaa. W. Al-Shammari</i>
11:45	250	Electricity Load Forecasting Using Attention-based Hybrid Deep Learning Model <i>Adil Hussain, Vineet Dhanawat, Ayesha Aslam, Tariq and Faizan Zaman</i>
12:00	292	Courier System with Data Analyzer Using Time Series Forecasting and Recommender Model <i>Shawe G. Belano-Regla and Jheanel E. Estrada</i>

I4: Metaheuristics and Model Optimization Session Chair: Dr. Muhammad Nur Afnan bin Uda		
Time (MYT)	Paper ID	Paper Title
10:45	23	A Feature Importance Method Based on Cosine Similarity and Metaheuristic Algorithm <i>Edjola Naka</i>
11:00	76	DarkNet Traffic Recognition Using Meta-Learning <i>Sanaa Mohsin, Baraa Wasfi Salim and Awaz Naaman Saleem</i>
11:15	124	Exploring MCMC Guided GAN and Comparative Analysis for Uneven Class Distribution <i>Nandita Nishika and Anurag Sharma</i>
11:30	130	Comparative SHAP Analysis on SVM and K-NN: Impacts of Hyperparameter Tuning on Model Explainability <i>Ikhlass Boukrouh, Faouzi Tayalati and Abdellah Azmani</i>
11:45	138	Score Function Design for Decision Making Using Conditional Kullback-Leibler Divergence <i>Sanghyuk Lee and Eunmi Lee</i>
12:00	143	DeepExtract: Neural Networks Based Image Keypoints Extraction for Indirect SLAM Algorithms <i>Maurya Gurram, Prakash Kumar Uttam and Shantipal S. Ohol</i>

J1: Traffic and Communication Systems Session Chair: Ts. Dr. Lim Kit Guan		
Time (MYT)	Paper ID	Paper Title
14:00	30	Precoding-assisted FDMA Transmission Scheme: A CP-available FBMC Technique <i>Ying Wang, Jianhong Xiang and Linyu Wang</i>
14:15	153	Comparative Study of Region Based Approaches to Road Image Classification of National Highways of Bangladesh Using Deep Learning Models <i>Md. Akib Hasan, Animesh Das Chowdhury, Sakif Hussain Shachcha, Md. Tanjilur Rahman and Kazi A. Kalpoma</i>
14:30	164	Energy-Based Resource Allocation in UAV- Assisted Mobile Networks for Public Safety <i>Yasmina Alaa Mohamed, Angeles Vázquez-Castro, Mohamed Essam Khedr and Mohamed Salah Mahm</i>
14:45	287	Leveraging OBD II Time Series Data for Driver Drowsiness Detection: A Recurrent Neural Networks Approach <i>Khubab Ahmad, Em Poh Ping and Nor Azlina Ab Aziz</i>
15:00	313	Privacy-preserving Quantum Key Distribution Ensemble Paillier Cryptosystem for Securing IoT Based Smart Metering System <i>Md Mehedi Hasan, Mohammad Kamrul Hasan, Ravie Chandren Muniyandi, Shayla Islam and Say Leng Goh</i>

J2: Signal Processing and Recognition Applications Session Chair: Assoc. Prof. Ir. Dr. Yang Soo Siang		
Time (MYT)	Paper ID	Paper Title
14:00	58	MoodWave Music Matcher: An Exploration of AIDriven Music Curation Based on Facial Analysis <i>Upasana Tiwari, Abhishek Tiwari, Shwetanshu Sood and Omprakash Suthar</i>
14:15	107	Noise Detection and Removal for Underground Communication Systems Based on L2 Normal Inner Product <i>Bangwei Yu, Yong Wang, Liangang Qi and Yang Liu</i>
14:30	136	Identification of Urban Sounds with Haptic Feedback Using Raspberry Pi and LSTM-SVM <i>Kyle Kenshin T. Morales, Carlo Jose G. Castillo and Rosemarie V. Pellegrino</i>
14:45	162	Sign2Text: Deep Learning-based Sign Language Translation System Using Vision Transformers and PHI-1.5B <i>Gadha Lekshmi P and Rohith Francis</i>
15:00	154	Vehicle Class Detection and Counting on a Malaysian Road Using YOLOv8 and OpenCV <i>Mahbub Hassan, Hridoy Deb Mahin, Muzammil Jusoh, Abdullah Al Nafees, Arpita Paul and Md Ashequl Islam</i>

J3: System Control and Fault Detection
Session Chair: Assoc. Prof. Ir. Ts. Dr. Melvin Gan Jet Hong

Time (MYT)	Paper ID	Paper Title
14:00	15	Implementation of Support Vector Machine Algorithm in a Real-time BLDC Motor Bearing Fault Classification with Discrete Wavelet Transform as Feature Extractor <i>Shan Joshua Raym C. Masangkay, Lester Joseph B. Mendigoria, Ivan Ross M. Reyes and Conrado F. Ostia Jr.</i>
14:15	97	An Encoded Double Auxiliary Pilot Channel Estimation Method for Intrinsic Interference Cancellation in FBMC/OQAM Systems <i>Sixuan Xing, Jianhong Xiang, Ying Wang, Liangang Qi and Yu Zhong</i>
14:30	146	SPECTRUM: A Multi-Component Pipeline for High-Quality Image Synthesis <i>Vishal Kumar, Kavitha Nair R, Amelesh M, Deepak Choudhary and Sachin Shree</i>
14:45	274	Smart Industrial Machine Management and Control System Based on IoT <i>Pritom Sadhu, Arajit Saha, Md. Abdul Muttalib Moon, Md. Asaduzzaman Fahim, Sumayea Alam Sara, Sazib Hosen, Salman-E-Admia, Munmun Akond, Kh. Asekur Rahman and D.M. Idid Ibne Asad Enan</i>

J4: Food and Agricultural Product Assessment
Session Chair: Dr. Chung Seng Kheau

Time (MYT)	Paper ID	Paper Title
14:00	236	EfficientNet-Lite 4-Based Classification System for Grading Philippine Strawberries <i>Maria Annegela C. Dionisio, Isaac Joaquin D. Salazar and Carlos C. Hortinela IV</i>
14:15	241	Shrimp Freshness Quality Assessment Using YOLOv5 <i>Gwyneth Patricia D. Sigua, Cristelle S. Corpuz and Jocelyn F. Villaverde</i>
14:30	267	Development of a Computer Vision Application for Copra Meat Cooking Detection and Classification Using YOLOv8 Architecture <i>Crister A. Canitan, Jamie Eduardo C. Rosal and Daryl Ivan E. Hisola</i>
14:45	302	Classification of Razor Clams through Shape and Size via YOLOv8 <i>Aaron Jason B. De Dios, Arvin Ian Aronce and Cyrel O. Manlises</i>
15:00	315	Domoic Acid Detection of Razor Clams through Muscle Tissue via YOLOv8 <i>Arvin Ian. Aronce, Aaron Jason B. De Dios and Cyrel O. Manlises</i>

K1: Environmental and Ecological Monitoring Session Chair: Dr. Chai Chang Yii		
Time (MYT)	Paper ID	Paper Title
15:30	108	Tackling Marine Pollution with IoT and Conditioned Diffusion <i>Aditya Shivakumar</i>
15:45	210	Pollen Prediction Using ANN and DNN <i>Veer Garg, Vivek Kumar and Hitesh Singh</i>
16:00	258	Development of a Database for the Classification of the Severity of Algal Bloom with the Implementation of Support Vector Machine <i>Rodmar V. Lanuza, Russell Dwayne F. Magday and Analyn N. Yumang</i>
16:15	316	Classification of Green Series Fischer's Lovebirds Using Fuzzy Logic Algorithm <i>Jobert D. Apilado, Aron Miguel R. Jintalan and Cyrel O. Manlises</i>
16:30	238	Recycle Waste Detection and Classification Model Using YOLO-V8 for Real-time Waste Management <i>Mohamad Azfar Mohamad Rastari, Rosniza Roslan, Raseeda Hamzah, Noor Hasimah Ibrahim Teo, Fadilah Ezlina Shahbudin and Khyrina Airin Fariza Abu Samah</i>

K2: Healthcare Applications and Technologies Session Chair: Dr. Nooralisa Binti Mohd Tuah		
Time (MYT)	Paper ID	Paper Title
15:30	20	Self-Applicable Eye Strain Detection through the Measurement of Blink Rate Using Raspberry Pi <i>Mon Timothy Isaac M. Carcellar, Carl Justin S. Tychuaco, Analyn N. Yumang</i>
15:45	254	A Comprehensive Survey on Federated Learning and Its Applications in Health Care <i>Sheilla Ann B. Pacheco</i>
16:00	269	SCAAV: Sensored Cane as an Alternative Aid for Visionless <i>Jannah Vea A. Junsay, Kurt Gabriel I. Royales, Joseph Bryan G. Ibarra</i>
16:15	298	Feature Engineering for Optimizing AI-Driven Classification Models in Non-Proliferative Diabetic Retinopathy Stage Detection <i>Induwara M.S., Fernando I.A.S.I., Isuranga T.H.N., Wijewardhana U.L., Dissanayaka M.M., Balagalla U.B.</i>

K3: Industrial and Mechanical Systems Session Chair: Dr. Mohd. Suffian bin Misran @ Misran		
Time (MYT)	Paper ID	Paper Title
15:30	151	Deep Learning-Based Intelligent X-bar Control Chart for Manufacturing Process Monitoring <i>Faouzi Tayalati, Ikhlass Boukrouh, Abdellah Azmani and Monir Azmani</i>
15:45	294	Unsupervised Human Action Recognition for Quality Control in Industrial Environments <i>Wetu Vexo, Chawalit Jeenanunta, Sapa Chanyachatchawan, Apinun Tunpan and Nisit Sirimarnkit</i>
16:00	329	Effect of Cooling Channel Structure on Permanent Magnet Synchronous Motor <i>Zhencai Huang, Hui Chen, Kit Guan Lim, Min Keng Tan, Bih Lii Chua and Kenneth Tze Kin Teo</i>
16:15	330	Impact of Helical Channel Number on Synchronous Motor Cooling Performance <i>Xiang Lei Meng, Hui Chen, Min Keng Tan, Kit Guan Lim, Bih Lii Chua and Kenneth Tze Kin Teo</i>

K4: Security and Surveillance Session Chair: Assoc. Prof. Ts. Dr. Leau Yu Beng		
Time (MYT)	Paper ID	Paper Title
15:30	17	Implementation of Dynamic Image for Facial Expression Recognition on Indonesian Facial Expression Dataset <i>Irene Anindaputri Iswanto, Andry Chowanda, Haryono Soeparno and Widodo Budiharto</i>
15:45	24	Application of Pose Recognition for Suspicious-Activity Detection Alarm System <i>Abejun Ranz A. Manuel, Riley Sebastianne D. Bughaw, Charmaine C. Paglinawan and Leonardo D. Valiente</i>
16:00	118	Development of a Drone with Human Detecting Capabilities Using Thermal Camera for Landslide Search Operations <i>Sammuel Jann L. Vasquez, Kyla Fate J. Yumang and Charmaine C. Paglinawan</i>
16:15	260	Facial Recognition with Deblurring Component (RL Deconvolution) Utilizing MATLAB and OpenCV for Household Surveillance <i>Kyle Mikael Pacudan and Charmaine C. Paglinawan</i>