



IEEE International Conference on Machine Learning and Applied Network Technologies (ICMLANT 2025) EL SALVADOR, 11 - 12 DECEMBER, 2025 (GMT-6, El Salvador Time)

	EL SALVADOR, 11 - 12 DECEMBER, 2025	Givi1-6, El Salvador Time)
Schedule	Thursday, December 11	Friday, December 12
7:50 am – 8:05 am	Opening Ceremony	
8:10 am – 8:30 am	Keynote 1 Dr. Kazim Raza Talpur Faculty of Artificial Intelligence University Talendari Malaysia (UTA)	Privacy-Preserving Federated Network Intrusion Detection on Encrypted Traffic: A Multi-Site Cross-Domain Approach with XGBoost Optimization Adepoju, Peter; Al-Hubaishi, Mohammed
8:35 am – 8:55 am	Faculty of Artificial Intelligence, Universiti Teknologi Malaysia (UTM) Kuala Lumpur, Malaysia	Deep Learning-Based HD Risk Prediction Using Sequential Neural Networks Krishna, Sujatha
9:00 am – 9:25 am	Smarter Healthcare: Assessing Nurse Workload using Wearable Sensors and Machine Learning Bui, Viet-Hoan; Tran, Duc-Nghia; Trong Minh, Hoang; Dinh, Ngoc-Anh; La Tuan,	Transcript-Free Alzheimer's Detection Using Lightweight Hybrid CNN–LSTM Architectures
	Minh; Hieu, Dao	Nguyen, Bao-Long; Tran-Bui, Nguyen-Duong; Hoang, Nhat-Minh; Vu, Hoang-Dieu
9:30 am - 9:50 am	Analysis of Driving Patterns on the Manzanillo-Colima Route Using Telematic Monitoring and Unsupervised Learning Ayala, Cristian; Zárate, Francisco; Vasconcelos, Alan; Collazos, Julian; Nicolas, Daniel; Vargas, Angie	Transfer Learning with XceptionNet for Cancer Detection in Medical Imaging Pham, Tuan-Anh; Hoang, Nhat-Minh; Nguyen, Thanh-Phuc; Vu, Hoang-Dieu
9:55 am – 10:15 am	Forecasting renewable energy curtailment using ARX models: A case study of Honduras during COVID-19 Serrano, Fernando; Raudales, Kevin; Sosa, Diego; Flores, Marco; Serrano, Miguel; Cardona, Manuel	A Systematic Review of Artificial Intelligence Applications in Alzheimer's Disease: Advances and Research Gaps in Latin America Sánchez, Carlos; Vásquez-Pineda, Bryan; Velasco-Molina, Nicole; Pinto, Rodrigo
10:20 am – 10:40 am	Advanced AI Regression Models for Non-Destructive Prediction of Maize Chemical Composition via Mid-Infrared Spectra Data Rammal, Abbass; Haidar, Shaza; Youness, Sara; Sharafeddin, Mageda	Deep Learning for Early Detection of Diabetic Retinopathy Using Retinal Fundus Images G R, Shreeya; Nayak, Shwetha
10:45 am – 11:05 pm	Reconstructing CT Scan Images with SADNN: A Promising Approach for Medical Imaging Dayanika, Jarugumalla; Balakrishna, Sivadi	ExBERT-CM: Explainable Cyberbullying Detection in Code-Mixed Social Media with Multilingual Transformer Models R, Varshini; Mary J, Priyanga; R, Shoba
11:05 am - 11:15 am	Break	Break
11:15 am – 11:35 pm	Pest and Disease Identification in Pomelo Leaves Using YOLOv9 Convolutional Neural Network (CNN) Model Perez, Edrick Benjamin; Gundran, Juan Miguel; Latina, Mary Ann	Personalized Education Path Recommendation System and AI Assistance priya, Dhathri
11:40 am – 12:00 pm	Low-cost Edge Gateway Architecture for IIoT Interoperability in Industry Miranda, Diego; Cardona, Manuel; Vásquez, Bryan; Solanki, Vijender Kumar	Multi-model Approach for Investigating the Gut Microbiota Signatures in Hepatic Steatosis Progression P, Deepika; L, Anand
12:05 am – 12:25 pm	A Quantum-Resistant Blockchain Framework for Securing IoT Devices Puri, Vikram; Kumar, Pradeep; Solanki, Vijender Kumar	Towards Ethical Artificial Intelligence: A Review of XAI Methods in Healthcare Martinez Rivas, Andrea; Cardona, Manuel; Vásquez-Pineda, Bryan
12:25 pm - 6:00 pm	Break	Break
6:00 pm – 6:20 pm	Dragon Fruit Plant Disease Classification Using Transfer Learning Magboo, Vincent Peter; Magboo, Ma Sheila	ZenIA: An Artificial Intelligence-Based Robotic System for Elderly Healthcare Assistance Guevara, Armando; López, Irene; Chávez, Fernando; Vásquez-Pineda, Bryan; Cardona, Manuel
6:25 pm – 6:45 pm	Synthetic Data Generation and Cost-Sensitive Distillation for Cardiovascular Risk Models Serrano-Fabela, Handry; Rivera-Lopez, Rafael; de la Cruz-Hernández, Erick; Hernández-Barrios, Daniela; Carrasco-Barradas, Abraham; Cruz-Ramírez, Marisol; Barradas-Cortés, Abraham; Ortega-Juárez, Daniela	Leveraging Deep Progressive Reinforcement Learning and Feature Learning Techniques for Vietnamese Sign Language Recognition Nguyen, VanToi
6:50 pm – 7:10 pm	Q-Learning-Based Path Planning Approach for UAVs in a Dynamic Environment Jarray, Raja; Bouallègue , soufiene	Towards Smart Charging Strategies: Using Machine Learning to Predict EV Charging Pattern via Smart Grid Irhaam, Adli; Mohd Nawi, Illani
7:15 pm – 7:35 pm	Application of Long Short-Term Memory Networks to Predict Electrical Frequency in El Salvador Flores-Cortez, Omar; Pocasangre, Carlos; Arevalo, Fernando; Lue, Josue; Arce, Carlos; Arrieta, Mario; Ramos, Jose; Melendez, Werner; Ramos, Jose	Low-Overhead Hybrid Beamforming and SINR-Based User Clustering for Mixed-Field Non-Orthogonal Multiple Access Systems Le, Thuan; Dinh, Nam; Nguyen, Ngoc Thanh; Nguyen, Luong
7:35 pm - 7:50 pm	Break	Break
7:50 pm -8:10 pm	NH SwiftPass Jayee, Georgy; Mariya, Hima ; Mariya, Ginu	Design of Miniaturized 3.8-GHz Shorted Patch Antenna for Sub-6 GHz 5G Applications Hoàng, Trang; Tran-Huy, Dat; Nguyen-Huy, Hoang; Tran-Huy, Hung
8:15 pm - 8:35 pm	Comprehensive Academic Integrity Verification: Plagiarism, Al-Content, and Citation Analysis K, Hariharan; B, Harish	Game-Theoretic Distributed Beamforming and User Association for mmWave Networks Le, Thuan; Dinh, Nam; Nguyen, Ngoc-Thanh
8:40 pm - 9:00 pm	Robust and Transparent IoT Anomaly Detection via Feature Selection and Explainable Machine Learning Rupai, Sanzida Sultana; Saykat, Tamim; Kabir , Seendid Saleh; Ruman, Md Abu Rafe; Chowdhury, Apurbo Roy	Simulation-Based Analysis of MITM Attack Success and Prevention Using VPN and Network Segmentation Tadepalli , Monikanjali ; Solanki, Vijender Kumar
9:05 pm - 9:25 pm	Al-Powered System for Missing Person Identification Using Age-Invariant Face Recognition Muthulingam, Gurusigaamani Ayyanar; Yalamanchi, Kushvanth; Vara, Jayavardhan Reddy; Garlapati, Velugondaiah; Tungala, Bose Babu	Development of a cost-effective and user-friendly skin potential acquisition module for emotion detection Tran, Anh Quang; Tran, Duc-Tan; Dang, Tran Huy; Nguyen, Minh Giang
9:30 pm - 9:50 pm	BlockWave: Democratizing Social Media Through User Control Vittapu, Mani	Keynote 2 Dr. Manuel Cardona Vice-President for Science & Technology, Don Bosco University El Salvador
9:55 pm - 10:15 pm	A Hybrid CNN with Boosting - Soft Voting Ensemble Technique for Diabetic Retinopathy Diagnosis	Closing Ceremony
9:99 hiii - 10:19 hw	Patlolla, Vishnesh Reddy ; Hameed, Mohd Abdul	Closing Ceremony