

Schedule	Thursday, December 16	Friday, December 17
8:00 am – 8:20 am	Opening Ceremony	Neural Transfer Learning For Vietnamese Sentiment Analysis Using Pre-trained Contextual Language Models <i>An Pha Le, Tran Vu Pham, Thanh Van Le and Duy V. Huyn h</i>
8:25 am – 8:45 am	Partial Least Squares Structural Equation Modeling Algorithm for Electronic Wallet <i>Nguyen Ngan and Bui Khoi</i>	A Hybrid Fault Detection Framework for Mobile Computing System <i>Neha Malhotra and Manju Bala</i>
8:50 am – 9:10 am	Assessment of Machine Learning Models in Detecting Dga Botnet in Characteristics by TF-IDF <i>Tong Anh Tuan, Viet Anh Nguyen and Hoang Viet Long</i>	Multi-input LSTM for water level forecasting in Black River at border of Vietnam-China <i>Truong Thi Hai Yen, Ngo Xuan An, Nguyen Quang Dat and Vijender Kumar Solanki</i>
9:15 am - 9:35 am	A CNN-based algorithm for selecting tree-of-interest images acquired by UAV <i>Itamar F. Salazar-Reque, Daniel Martín Arteaga Melendez, Kevin Guerra Huamán and Samuel G. Huamán Bustamante.</i>	Cyberattacks Predictions Workflow using Machine Learning <i>Jairo Serrano, Juan Carlos Martínez Santos and Carlos Eduardo Barrera Pérez</i>
9:40 am – 10:00 am	Propose method for the design of a transtibial prosthesis using generative CAD / FEM analysis and additive manufacturing <i>Jose Luis Ordoñez-Avila, Marcial Ordoñez Avila, Douglas Adalberto Aguilar and Manuel Cardona</i>	Wearable Prototype for the Measurement of Explosive Gases in Mining <i>Fabian Medina, Luis David Patarroyo, Bryann Gutierrez, Jorge Espindola and Eduardo Avedaño</i>
10:00 am – 10:10 am	Break	Break
10:10 am – 10:30 am	Using Neural Networks in River Level Prediction - case study of the river La Leche-Peru <i>Diana Mercedes Castro Cárdenas, Segundo Francisco Segura Altamirano and Merly Liliana Yataco Bernalola</i>	Generative Adversarial Network Design for Data Augmentation for Copro-parasite Images <i>Miguel Gutierrez-Velazquez, Mario I Chacon-Murguía, Juan A Ramirez-Quintana, Carlos Arzate-Quintana and Alma D Corral-Saenz.</i>
10:35 am – 10:55 pm	Predicting ocean-wave conditions using buoy data supplied to a hybrid RNN-LSTM neural network and machine learning models <i>Gulustan Dogan, Meghan Ford and Scott James</i>	Robust Automatic Speaker Identification System Using Shuffled MFCC Features <i>Mahdi Barhoush, Ahmed Hallawa and Anke Schmeink</i>
11:00 am – 11:20 pm	Effects of uncertainty in laser energy on temperature evolutions in directed energy deposition process using machine learning-based stochastic approach <i>Thinh Quy Duc Pham, Xuan Van Tran and Anne-Marie Habraken</i>	Fruits classification by using machine learning - An experiment using popular approaches on local data <i>Nguyen Vuong Thinh, A Nguyen Thi Yen Nhi, Trinh Gia Huy, Nghi Hoang Khoa and Nguyen Tan Cam</i>
11:25 am – 11:45 pm	A Blockchain-based Secured and Privacy-Preserved Personal Healthcare Record Exchange System <i>Hien Do Hoang, Hien Do Thi Thu, Nhut Thach, Quyen Phan Dang Truc, The Duy Phan and Van-Hau Pham</i>	PWDGAN: Generating Adversarial Malicious URL Examples for Deceiving Black-Box Phishing Website Detector using GANs <i>Nguyen Bac Trinh, The Duy Phan and Van-Hau Pham</i>
11:50 am – 12:10 pm	Classification of Activities and Falls within a Multimodal Dataset <i>Evan Kurpiewski, Blythe Layne, Gulustan Dogan, Ilya Samokhvalov, Lukmon Rasaan and Michel Heijnen.</i>	Implementation of MPC and PID Control Algorithms to the Artificial Pancreas for Diabetes Mellitus Type 1 <i>Esther Ivanova Matamoros Alcívar, Tanya Ascencio Lino, Rigoberto Salomón Fonseca Delgado, Andrés Tirado Espín, Gandhi Villalba, Lorena Barona and Diego Almeida</i>
12:10 pm – 6:10 pm	Break	Break
6:10 pm – 6:30 pm	Modeling and Prototype Implementation of an Automated Guided Vehicle for Smart Factories <i>Hiroki Sasamoto, Ramiro Velazquez, Sebastián Gutiérrez, Manuel Cardona, Amir A. Ghavifekr and Paolo Visconti.</i>	Evaluation of 6PE and 6VPE techniques in MPLS-VPN networks for video streaming <i>Alex Yautibug Cora, Diego Avila-Pesantez and Alberto Arellano-Aucancela.</i>
6:35 pm – 6:55 pm	Enhanced Text Classification Methods to Improve the Performance of the Various Text Mining Processes using Rapid Miner <i>Shitanshu Jain, S.C. Jain and Santosh Vishwakarma</i>	Kinematics Solution of ALICE: An Exoskeleton Robot for Rehabilitation <i>Manuel Cardona</i>
7:00 pm – 7:20 pm	Night club recommendation system based on decision trees <i>Claudia Sanchez, José Delgado, Pablo España, Luis García-Zermeño, Julieta Domínguez-Soberanes and Samantha Licea</i>	Realtime Pipeline Fire & Smoke Detection using a Lightweight CNN model <i>Vaishnav Kumar Suresh Kumar and Praveen Sankarasubramanian</i>
7:25 pm – 7:45 pm	Reinforcement learning for optimization hyper parameters of Long Short-Term Memory applied to Electricity load forecasting <i>Ngoc Anh Nguyen Thi, Dat Dang Tien and Ngoc Le Anh</i>	Feature Generation by K-means for Convolutional Neural Network in Detecting IoT System Attacks <i>Le Thi Hong Van, Pham Van Huong, Ta Quang Hua, Le Duc Thuan and Nguyen Hieu Minh</i>
7:50 pm – 8:10 pm	Computer vision neural network using YOLOv4 for underwater fish video detection in Roatan, Honduras <i>Delond Angelo Jimenez Nixon</i>	Mathematical Model Using Denavit-Hartenberg Algorithm For Kinematic Control of 12DOF Zoomorphic Robot <i>Dennys Fernando Cantarero Urbina and Alicia María Reyes Duke</i>
8:15 pm – 8:35 pm	Stochastic Linear Programming Approach for Portfolio Optimization Problem <i>Dao Minh Hoang, Tran Ngoc Thang, Nguyen Danh Tu and Nguyen Viet Hoan g</i>	Power Distribution System Optimization Based on Improved Free Search Algorithm <i>Truong-Giang Ngo, Thi-Kien Dao, Trong-The Nguyen and Quynh-Nga Nguyen</i>
8:15 pm – 8:35 pm	Development of a teleoperated robot based on an experimental design for sterilization in Honduras <i>Jose Luis Ordoñez-Avila, Fredy Bonilla and Eduardo Daniel Garcia</i>	Keynote 2 Essential of Research Manuscript Ethics <i>Gloria Rincon Aponte , PhD</i>
8:40 pm – 9:00 pm	A Load Power Distribution Optimization based on Improving Biogeography-Based Optimization <i>Truong-Giang Ngo, Trong-The Nguyen, Trinh-Dong Nguyen and Thi-Kien Dao</i>	Keynote 3 Disruptive Technologies & The Industry 4.0 <i>Manuel Cardona, PhD</i>
9:05 pm – 9:25 pm	Keynote 1 Towards Chemical-Inspired Machine Learning in Intelligent Automation <i>Hiram Ponce, PhD</i>	Closing Ceremony