

Detailed Program of the CIAPP 2024		
OCTOBER 22, 2024		
Hora	Actividad	Autor(es)
9:30 – 10:00	Registro	
10:00 – 10:40	Conferencia Magisterial: Improving lactation curve estimation in sheep: A comparative analysis of machine learning algorithms across multiple measurement systems	Exponente: Felix A. Castro-Espinoza
10:40 – 11:00	Air Pollution, Socioeconomic Status, and Avoidable Hospitalizations in Mexico City: A Multifaceted Analysis	Carlos Minutti-Martinez, Miguel F. Mata-Rivera, Magali Arellano-Vazquez, Boris Escalante-Ramírez and Jimena Olveres-Montiel
11:00 – 11:20	Automatic Detection of Abnormal Pedestrian Flows, Using Classification and Trachking with Pre-Trained YOLOv8	Adrián Núñez-Vieyra, Rogelio Ferreira-Escutia, Juan C. Olivares-Rojas, Arturo Méndez-Patiño, José A. Gutiérrez-Gnecchi and Enrique Reyes-Archundia
11:20 – 11:40	Computational time reduction in the induction of Convolutional Decision Trees	Adriana-Laura López-Lobato, Héctor-Gabriel Acosta-Mesa and Efrén Mezura-Montes
11:40 – 12:00	Bean landraces color identification through image analysis and Gaussian Mixture Model	Adriana-Laura López-Lobato, Martha-Lorena Avendaño-Garrido, Héctor-Gabriel Acosta-Mesa, José-Luis Morales-Reyes and Elia-Nora Aquino-Bolaños
12:00 – 12:10	Break	
12:10 – 12:30	Efficient Neural Architecture Search: Computational Cost Reduction Mechanisms in DeepGA	Jesús-Amulfo Barradas-Palmeros, Carlos-Alberto López-Herrera, Héctor-Gabriel Acosta-Mesa and Efrén Mezura-Montes
12:30 – 12:50	Prediction of epileptic seizure using neuroevolved spiking neural network	Carlos-Alberto López-Herrera, Héctor-Gabriel Acosta-Mesa, Efrén Mezura-Montes and Jesús-Amulfo Barradas-Palmeros
12:50 – 13:10	Identification of simple geometric figures using Matlab and ROS	Atalia-Yael Hernández-Sánchez, Jorge Aramburo-Aguilar, Héctor-Gabriel Acosta-Mesa, Sergio Hernandez-Mendez and Antonio Marin-Hernandez
13:10 – 13:30	Experimental Study for Automatic Feature Construction to Segment Images of Lungs Affected by COVID-19 Using Genetic Programmin	David Herrera-Sánchez, José-Antonio Fuentes-Tomás, Héctor-Gabriel Acosta-Mesa and Efrén Mezura-Montes
13:30 – 13:50	Color quantification in common bean landraces using a supervised learning technique	José-Luis Morales-Reyes, Elia-Nora Aquino-Bolaños and Héctor-Gabriel Acosta-Mesa
13:50 – 14:10	Explainable AI through Decision Trees for black-box models used to support Bacterial Vaginosis Diagnosis	Rafael Rivera-López, Juana Canul-Reich, Erick De la Cruz Hernández, Héctor Gibrán Ceballos-Cancino, Efrén Mezura-Montes and Marco Antonio Cruz-Chávez
Each speaker will have 15 minutes for their presentation, plus 5 minutes for questions.		