

Computational tool for training and validation of intelligent electronic devices as protective devices

ADN-R

Active Distribution Network-Research



The screenshot displays the IED-LEARNING software interface with several overlapping windows. The main window shows a file path: `C:/Users/Duirist/Desktop/DUIRIS DRIVE/Proyecto Final - Pregrado/HERRAMIENTA COMPUTACIONAL/Base de Datos/dataset`. It includes panels for "Choose Relays to Train" (listing Relay-1, Relay-11, Relay-13, Relay-3, Relay-4, Relay-6, Relay-7), "Discrete Fourier Transform" (with "Choose Attributes" for Voltage Magnitude and Angle for Phases A, B, and C), and "Choose Calculation Mode" (Mode 1, Mode 2). A "Microgrid Representation" diagram shows a network with Thermal, Solar, and Wind power plants, a central Grid Management hub, and Smart Transferrable and Hydroelectric power plants. Other windows show "Visual Distribution of Parameters" (a bar chart for Voltage Magnitude Ph. A), "Select Machine Learning Technique" (Decision Tree, SVM, NN), "Define Hyperparameters" (Criterion: gini, Max. Depth: None), and "Decision Tree Visualization" (a tree structure with nodes like "Current Magnitude Ph. A <= -0.702" and "Voltage Magnitude Ph. A <= 0.601").

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