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CERTIFICATE OF PARTICIPATION

This certifies that

Rasha Al-yosif

has participated and presented a paper entitled:

Design and Implementation of LUO Converter with MPPT Controller Based on Photovoltaic System

at the **3rd International Conference on Advanced Engineering, Technology, and Applications**, held at the **University of Catania, Italy** on May 24-25, 2024.

Dr. Alessandro Ortis
General Chair