



Università  
di Catania

isü

İSTİNYE  
ÜNİVERSİTESİ  
İSTANBUL



Springer Scopus® Ei Compendex



# CERTIFICATE

## OF PARTICIPATION

This certifies that

**Alaa Ali Hameed**

has participated and presented a paper entitled:

**Enhancing the heart disease classification using Multi-level Perceptron and Principal Component Analysis**

at the **3<sup>rd</sup> 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