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CERTIFICATE OF PARTICIPATION

This certifies that

Niam Abdulmunim Al-thanoon

has participated and presented a paper entitled:

Improving meta-heuristic algorithms for feature selection in multiclass classification

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