



**IEEE 4th International Conference on Computing and Machine
Intelligence**
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Central Michigan University

CERTIFICATE

of Participation

This certificate is presented to
Mustafa Abdalla

For participating and presenting the
paper titled:

**Ensemble Feature Selection for Network Intrusion
Detection Systems Using Explainable AI: A
Frequency-Based Approach**

A handwritten signature in blue ink, appearing to read "Ah".

General Chair
Ahmed Abdelgawad, PhD