



IEEE 4th International Conference on Computing and Machine
Intelligence
April 05-06, 2025
Central Michigan University

CERTIFICATE of Participation

This certificate is presented to
Hanqing Hu

**For participating and presenting the
paper titled:**

**Adaptive Real-Time Gap Detection System: A
Multi-Algorithm Approach Integrating Ultrasonic
Sensing and Machine Learning for Robust
Structural Analysis**

A handwritten signature in blue ink, appearing to read "AA", positioned above the name of the General Chair.

General Chair
Ahmed Abdelgawad, PhD