



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

CERTIFICATE of Participation

This certificate is presented to
Hanan Shukur

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

**Comprehensive Bias Mitigation in AI: Evaluating
Pre-processing, In-processing, and Post-processing
Techniques for Fair Decision-Making**

A handwritten signature in blue ink, appearing to be "AA".

General Chair
Ahmed Abdelgawad, PhD