



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

CERTIFICATE

of Participation

This certificate is presented to
Abadal Salam Hussain

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

**Improved YOLOv9 for Detecting Weapons: Using
Transfer Learning, Multi-Scale Training, and
Ensemble Techniques to Achieve Higher Accuracy**

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

General Chair
Ahmed Abdelgawad, PhD