



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

CERTIFICATE

of Participation

This certificate is presented to

Alaa Ali Hameed

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

**Generative and Deep Learning Analysis for
Sharpening and Detection of Infrastructure from
Satellite Imagery**

A handwritten signature in blue ink, appearing to be "Ah", located below the title of the paper.

General Chair
Ahmed Abdelgawad, PhD