



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

CERTIFICATE

of Participation

This certificate is presented to
Hasan Sadeq

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

**AI Analysis of Arabic Calligraphy Characteristics in
Digital Advertisements**

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

General Chair
Ahmed Abdelgawad, PhD