



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

CERTIFICATE of Participation

This certificate is presented to
Zainab Mohanad Issa

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

**Performance evaluation of the optical system using
DQPSK and Coherent detection for long-distance
transmission**

A handwritten signature in blue ink, appearing to read "Ah", located below the text of the certificate.

General Chair
Ahmed Abdelgawad, PhD