



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

CERTIFICATE of Participation

This certificate is presented to
Ahmed Hussein Ahmed

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

**Malware Detection in Internet of Things Devices
Through the Utilization of Deep Sparse
Autoencoders and Signal Processing Methods**

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

General Chair
Ahmed Abdelgawad, PhD