



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

# CERTIFICATE

## of Participation

**This certificate is presented to**  
**Bothina A. Q. Saleh**

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

**Enhancing IoT Security through the Integration of**  
**Explainable AI and Ensemble XGBoost for**  
**Improved Intrusion Detection**

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

**General Chair**  
**Ahmed Abdelgawad, PhD**