



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

# **CERTIFICATE**

## **of Participation**

**This certificate is presented to**  
**Magdy Bayoumi**

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

**A Chaotic Non-Linear Pseudo Random Number  
Generator (CNPRNG) Design for High-security  
Applications**

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

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