



2<sup>nd</sup> International Conference on Artificial Intelligence, Blockchain, and Internet of Things, Central Michigan University, USA September 07-08, 2024



## **CERTIFICATE OF PARTICIPATION**

## This is to certify that the following participants:

Hussam N. Fakhouri

## **Presented the paper titled:**

Hybrid Four Vector Intelligent Optimizer with SaDE for Solving Robot Gripper Optimization Problem



Dr. Ahmed Abdelgawad General Chair

