



**3rd International Conference on Artificial  
Intelligence, Blockchain, and Internet of Things  
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Central Michigan University, USA**

# **CERTIFICATE of Participation**

**This certificate is presented to**

**Arun Kumar Sivaraman, Raja Waseem Anwar, Nafaa  
Jabeur, Ajmery Sultana, Thirumurugan Shanmugam,  
Kamalavelu Velayutham**

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

**Optimized Bio-Inspired Thermal Image Analysis for  
Mastitis Detection Using YOLOv8 Probabilistic Spiking  
Networks**



**General Chairs**

*Ahmed Abdelgawad*

**Dr. Ahmed Abdelgawad**

*Alaa Ali Hameed*

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**Dr. Akhtar Jamil**