



**IEEE** Northeast Michigan USA



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

## CERTIFICATE

### of Participation

#### This certificate is presented to

#### Shadi Alawneh

# For participating and presenting the paper titled:

**Optimizing Sparse Multi-GPU Architectures for** Large-Scale Power System Analysis

General Chair Ahmed Abdelgawad, PhD