



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

# CERTIFICATE of Participation

**This certificate is presented to**  
**Ahmed Hussein Ahmed**

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

**Design and Performance Analysis of Ultra-Long-  
Haul DWDM RFoF Systems Using EDFA and  
Raman Amplifiers under Variable Launched Power**

**T. Abdelgawad**

A handwritten signature in blue ink, appearing to be "AA", representing Ahmed Abdelgawad.

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