







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

## **CERTIFICATE**

of Participation

This certificate is presented to

Mustafa Bashar

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

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**General Chair** 

**Ahmed Abdelgawad, PhD**