

**CERTIFICATE**

*Of*

**PARTICIPATION**

**Abderrahim Zemmit**

has participated in 4th International Conference on Scientific and Academic Research on 19-20 July in 2024  
at Konya/Turkey.

**PAPER TITLE**

*AI-Powered Fault Detection in MPPT Algorithms Utilizing Artificial  
Neural Networks for Enhanced Photovoltaic System Performance*

**PRESENTATION TYPE**

*Oral*

