

The First National Conference on Renewable Energies and Advanced

Electrical Engineering (NC-REAEE'25)

May 06-07<sup>th</sup>, 2025

University of M'Sila

Faculty of Technology

جامعة مسila - موريتانيا  
University Mohamed Boudiaf - M'sila

Electrical Engineering Laboratory (LGE)



# CERTIFICATE Of PARTICIPATION

This Certificate is Awarded to:

**HELLALI LALLOUANI**

for presenting a paper entitled:

Application of the Fourier Transform for the Fault broken Rotor  
Bars Detection in Induction Motors

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at the First National Conference on Renewable Energies and Advanced Electrical Engineering  
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Conference Chair

Dr. Abderrahmane ZHAFIRI

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