



People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
University Ahmed Draieya of Adrar-Algeria
Faculty of Science and Technology
Laboratory of Sustainable Development and Informatics (LDDI)



The Second International Conference on Energy Transition and Security
December, 12-13, 2023, Adrar, Algeria

Certificate of Participation

This is to certify that: **HASSANI Islam**

Has attended the Second International Conference on Energy Transition and Security 2ICETS2023 and presented the paper entitled:

A Robust Adaptive Filtering Algorithm with Double Talk Detection in-car Communication System

Co-authors: Rédha Bendoumia, Elhachemi Kouddad, Meriem Zoulikha, Ahecéne Abed

The Chairman of 2ICETS2023

Pr. HAMMOUDA Messoud

