



PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA MINISTRY  
OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH  
UNIVERSITY CENTER OF TIPAZA MORSLI ABDELLAH



1st International Seminar on Mechatronics Innovation Materials, Renewable Energy, and Artificial Intelligence  
(ISMIMREAI'24), November 16-17, 2024, Tipaza, Algeria

## Certificate Of Participation

The Chairwoman Of The ISMIMREAI'24 Certifies That ;

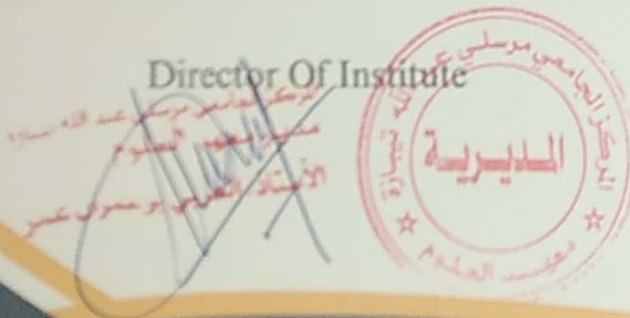
**Bouzateur Inas**

Has Presented a **Poster** Communication , Entitled :

An improves artificial neural network –fromwork for chalcopyrites energy band gap prediction

Co-authors : Bennacer Hamza and Hadjar Hakima

Director Of Institute



General Chair

1st International Seminar on  
Mechatronics- Innovation Materials,  
Renewable Energy and Artificial  
Intelligence (ISMIMREAI'24)  
Chairman: Dr. Megdoud Yousra

Scientific Committee Chair

Dr. Bourahla Nassima  
Associate Professor

