



Peopel's Democratic Republic of Algeria  
Ministry of Higher Education and Scientific Research  
University Mohamed Boudiaf M'sila



**City, Environment, Hydraulics  
and Sustainable Development Laboratory**

## Certificate of Participation

The Chairman of the Scientific Committee of the International seminar on Natural Risks,  
Urban Territory Management and Analysis Tools "The Advantages of Artificial Intelligence"  
held at Mohamed Boudiaf University, M'Sila, on December 16, 17 and 18, 2024,

testifies that **Assoule Dechaicha**

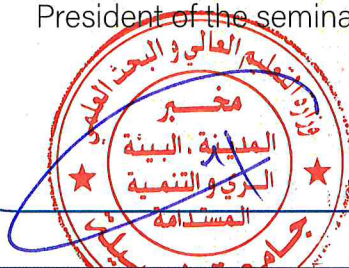
participated in the activities of the seminar with a communication entitled:

**Uncontrolled urbanisation and climate risks: identification of the Urban Heat Island  
using remote sensing and GIS. Case study of the Guelma City**

**Co-author: Adel Daikh , Mohamed Cheraitia . Djamel Alkama**

President of the seminar

Chairman of the Scientific Committee



مدير المختبر  
الأستاذ: رجم علي

أحمد دحايحة