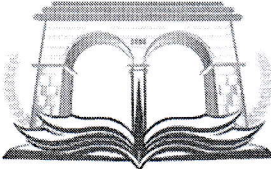


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University Mustapha Stambouli of Mascara		جامعة مصطفى اسطمبولي معسكر

Faculty of Exact Sciences  
Department of Computer Science

كلية العلوم الدقيقة  
قسم الإعلام الآلي

## Thesis Presented to Obtain the Degree of Doctorate in Computer Science



Intituled:

### Design of Bio-Inspired Metaheuristics for Medical Image Classification

Presented by :

**Brahim KHALDI**

Defense date: Thursday, April 9, 2026 at 9:00 AM

In front of the Jury Committee composed of:

President	Boufera Fatma	Professor	University of Mascara
Examiner	Zagane Mohammed	MCA	University of Mascara
Examiner	Mekkaoui Kheireddine	Professor	University of Saida
Examiner	Bouziane Abdelghani	Professor	University of Naama
Supervisor	Debakla Mohammed	Professor	University of Mascara
Co-Supervisor	Djemal Khalifa	Professor	University of Evry, France
Guest	Bouougada Benamar	MCA	University of Naama