

People's Democratic Republic of Algeria  
Ministry of Higher Education and Scientific Research  
University of Mohammed Seddik Ben Yahia - Jijel  
Faculty of Exact Sciences and Computer Science  
Department of Computer Science



نائب العميد المكلف بما بعد التدرج  
والبحوث العلمية والعلاقات الخارجية  
بريهي نورالدين

**Doctoral Thesis**

Presented for the degree of  
**LMD Doctorate**

**In:** Computer Science

**Specialty:** Artificial Intelligence

**By:**

**Haroun Bouchemoukha**

**Theme**

**Hybrid deep learning-based spatiotemporal  
approach for traffic forecasting**

Publicly defended on July 09, 2025 at 16:00h in the defense room of the Faculty of Exact Sciences and Computer Science (ex Central Library).

**In front of the jury composed of:**

Mr. Elhillali Kerkouche	Professor	University of Jijel	President
Mr. Ahmed Alioua	Associate Prof.	University of Jijel	Supervisor
Mr. Doulkifli Boukraa	Professor	University of Jijel	Examiner
Mr. Ammar Boulaiche	Associate Prof.	University of Jijel	Examiner
Mr. Ali Lemouari	Professor	University of Tamanghasset	Examiner
Mr. Zakaria Benmounah	Associate Prof.	University of Constantine 2	Examiner
Mr. Mohamed Nadjib Zennir	Assistant Prof.	University of Jijel	Invited guest

**Academic year: 2024 - 2025**