

الجمهورية الجزائرية الديمقراطية الشعبية  
République Algérienne Démocratique et Populaire  
وزارة التعليم العالي و البحث العلمي  
Ministère de l'Enseignement Supérieur et de la Recherche Scientifique  
المدرسة العليا للإعلام الآلي 8 ماي 1945  
École Supérieure en Informatique  
8 Mai 1945 Sidi Bel Abbès



## MÉMOIRE

En vue de l'obtention du diplôme de **Master**  
Filière: **Informatique**  
Spécialité: **Systeme d'Information et Web (SIW)**

### Thème

---

METADATA-BASED RECOMMENDATION APPROACH FOR ONTOLOGIES:  
THE USAGE OF METADATA ALONG WITH USER PROFILES

---

Présenté par:  
AbdelOuadoud Rasmi

Soutenu le : **29/06/2022** devant le jury composé de :

Pr. Malki Mimoun	Professeur	Président
Dr. Badsy Hichem	MCB	Examineur
Dr. Abdel Hamid Malki	MCA	Encadrant
Pr. Mohammed Hedi Karray	Professeur	Encadrant
Dr. Emna Amdouni	Chercheur	Co-Encadrant

*Année Universitaire : 2021-2022*

During the last 2 decades, many recommendation systems were proposed to deal with the complexity of user preferences prediction, many models were used under one of the 3 general filtering approaches (Collaborative, Content-based and Hybrid approach).

In the other hand, Ontologies were integrated, and used in data formal representation, to improve interoperability between different agents, and thus what could give better results for **Recommendation systems assisted with Ontology**.

This thesis defines the basic knowledge related to three topics that are necessary to build a **metadata based** recommendation system, assisted with user profiles, and cites different works on **recommendation systems** based on ontologies, or on structured datasets.

**Key words:** Semantic Web, FAIR, Ontology, interoperability, recommendation system.