



الجمهورية الجزائرية الديمقراطية الشعبية
The People's Democratic Republic of Algeria
وزارة التعليم العالي والبحث العلمي
Ministry of Higher Education and Scientific Research
جامعة محمد بوضياف بالمسيلة
University Mohamed Boudiaf of M'sila



كلية الرياضيات والإعلام الآلي

قسم الإعلام الآلي

Faculty of Mathematics and Informatics

Department of Computer Science

Domain: Mathematics and Computer Science

Thesis Presented to Fulfill the Partial Requirement
for Master's Degree in Computer Science

Specialty: Networks and Information and
Communication Technologies

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