Sudan University of Science & Technology

College of Graduate Studies

College of Computer science and information technology

A study of some Arabic text summarization System

دراسة بعض نظم تلخيص النصوص العربية

Research in partial fulfillment of the master in information technology, Software Engineering track

Prepared by:

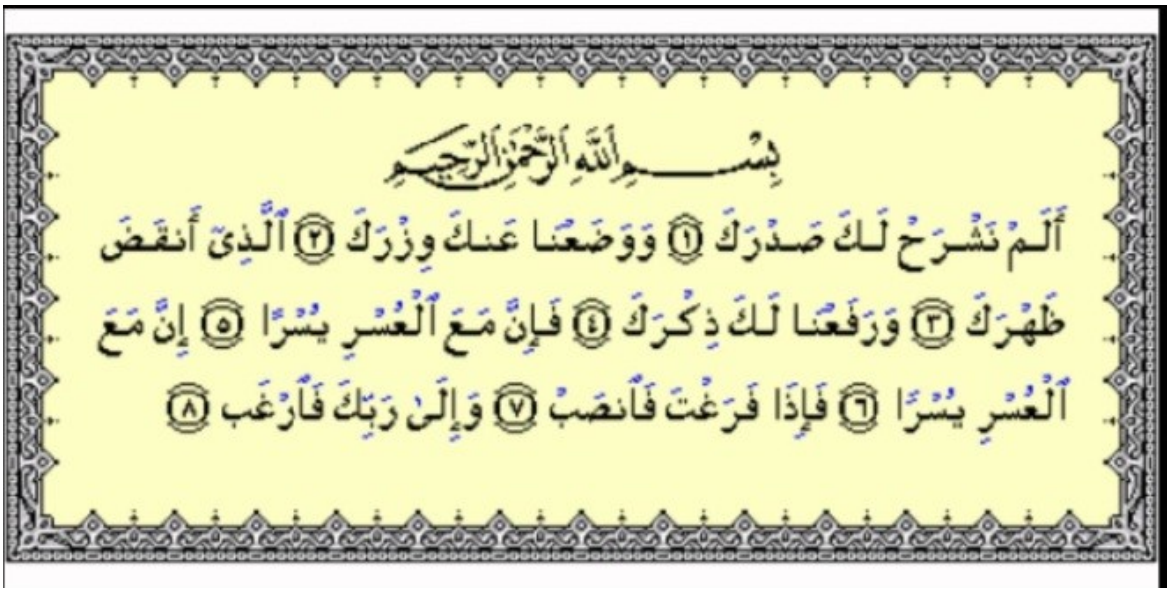
Rania Ali Elkhidir

Supervisor:

Prof . Ezzaldien Mohamed Osman

2013

الآية



صدق الله العظيم

Table of Content

NO	Address	Page
1.	Chapter one: Introduction	3
2.	1.1 Introduction	3
3.	1.2 The newer, easier, and faster way	4
4.	1.3 Automatic text summarization:	5
5.	1.4 Research Objectives:	8
6.	1.5 Methodology:	8
7.	1.6 Expected contributions:	8
8.	Chapter Two: Literature Review	9
9.	2.1 Importance of text summarization:	9
10.	2.2 Benefits of Summary Programs:	10
11.	2.3 Types of Summaries	10
12.	2.4 Evaluation Strategies and Metrics	11
13.	2.5 Features	12
14.	2.6 Approaches to Summarization	13
15.	2.6.1Classical Method	13
16.	2.7 Arabic Language Tagging Systems	15
17.	2.8 The Model of the Arabic Words	17
18.	Chapter Three: Rich Site Summary (RSS)	18
19.	3.1 RSS Rich Site Summary	18
20.	3.2 What Problems does RSS Solve?	19
21.	3.3 How does RSS Work?	19
22.	3.4 What Information does RSS Provide?	20
23.	Other uses	22
24.	3.5 Example	22
25.	Chapter Four: Implementation for Arabic text summrization	24
26.	4.1 Open text Summarization:	24
27.	4.2 Intellexer summarizer	25
28.	4.3 The Text Compactor Program	27
29.	4.3.1 How it Works	27
30.	Chapter Five: Experiments and Evaluation	30
31.	5.1 Evaluation Methods	30
32.	5.1.1 Experiment for Intrinsic Evaluation	31
33.	5.1.2 Experiment for Extrinsic Evaluation	32
34.	Evaluate Text Compactor	38
35.	Chapter Six: Results and Discussions	40
36.	Recommendations	40
37.	References	41

38.	Appending	43