



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



HANAA ALY



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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ADAPTIVE ROUTING PROTOCOL FOR VEHICULAR AD-HOC NETWORKS SIMULATED IN URBAN USING INTEGRATED FRAMEWORK VEINS

By

Ahmed Mohammed Abdelaal Hassanein Elsherif

A Thesis Submitted to the
Faculty of Engineering at Cairo University
In Partial Fulfillment of the
Requirements for the Degree of
MASTER OF SCIENCE
In
Electronics and Communications Engineering

FACULTY OF ENGINEERING, CAIRO UNIVERSITY
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ADAPTIVE ROUTING PROTOCOL FOR VEHICULAR AD-HOC NETWORKS
SIMULATED IN URBAN USING INTEGRATED FRAMEWORK VEINS

Key Words:

VANET; Mobility generator; Network simulator; Middleware frameworks; Veins

Summary:

The main objective of the thesis is to discuss various vehicular ad-hoc network simulators and to build vehicular ad-hoc network simulator that combines between a mobility generator and a network simulator in order to have a realistic VANET simulator. Different routing protocols from different routing approach types: proactive, reactive and position based routing protocols, are adapted to evaluate and analyze their performance.

Disclaimer

I hereby declare that this thesis is my own original work and that no part of it has been submitted for a degree qualification at any other university or institute.

I further declare that I have appropriately acknowledged all sources used and have cited them in the references Section.

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Dedication

I dedicate this thesis to my mother who is dreaming to get my master degree followed by PHD in my beloved faculty of engineering University of Cairo.

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Table of Contents

DISCLAIMER.....	I
DEDICATION.....	III
ACKNOWLEDGMENTS	III
TABLE OF CONTENTS.....	IV
LIST OF TABLES	VI
LIST OF FIGURES	VII
NOMENCLATURE	IX
ABSTRACT	XI
CHAPTER 1 : INTRODUCTION	1
1.1.MOTIVATION.....	1
1.2.CONTRIBUTION.....	2
1.3.ORGANIZATION OF THE THESIS	2
CHAPTER 2 : OVERVIEW OF ROUTING PROTOCOLS FOR VEHICULAR AD-HOC NETWORKS	3
2.1.INTRODUCTION.....	3
2.2.CLASSIFICATIONS OF DIFFERENT ROUTING PROTOCOLS	3
2.2.1.Topology based routing protocols.....	4
2.2.1.1.Proactive routing protocols.....	4
2.2.1.2.Reactive routing protocols.....	5
2.2.1.3.Hybrid routing protocols.....	6
2.2.2.Position based routing protocols.....	7
2.2.2.1.Position based greedy V2V protocols.....	7
2.2.2.2.Delay tolerant protocols.....	8
2.2.3.Cluster based routing protocols.....	9
2.2.4.Geo cast routing protocols.....	10
2.2.4.1.Routing with directed flooding.....	10
2.2.4.2.Routing without flooding.....	12
2.2.5.Broadcast routing protocols.....	13
2.3.SUMMARY OF PROS AND CONS OF DIFFERENT ROUTING PROTOCOLS BASED ON THEIR CLASSIFICATIONS.....	13
CHAPTER 3 : VANET NETWORK SIMULATOR.....	14
3.1.OVERVIEW OF SIMULATORS FOR VANETs	15
3.2.VEHICULAR MOBILITY GENERATOR	17
3.2.1.Overview on different mobility generators.....	17
3.2.2.Different vehicular mobility generators.....	20
3.2.3.Qualitative comparison between different vehicular mobility generators.....	22
3.3.NETWORK SIMULATORS.....	23
3.3.1.Overview of different network simulators.....	23

3.3.2.Types of network simulators.....	24
3.3.3.Existing network simulators.....	24
3.3.4.Comparison between different network simulators... ..	28
3.4.MIDDLEWARE FRAMEWORKS FOR VANET SIMULATORS.....	29
3.4.1.Overview of Middleware frameworks.....	29
3.4.2.Existing middleware frameworks for VANET simulators	30
3.4.3.Comparison between different integrated frameworks	33
3.5.VEINS INTEGRATED FRAMEWORK.....	35
3.5.1.Veins architecture.....	35
3.5.1.1.SUMO.....	36
3.5.1.2.OMNeT++.....	36
CHAPTER 4 : EVALUATION AND ANALYSIS.....	37
4.1.SIMULATING NETWORK.....	38
4.2.DESTINATION SEQUENCED DISTANCE VECTOR PROTOCOL (DSDV).....	39
4.3.AD-HOC ON DEMAND DISTANCE VECTOR ROUTING PROTOCOL (AODV).....	41
4.4.GREEDY PERIMETER STATELESS ROUTING PROTOCOL (GPSR).....	44
CHAPTER 5 :CONCLUSION AND FUTURE WORK.....	47
5.1.CONCLUSION.....	47
5.2.FUTURE WORK.....	48
PUBLICATIONS	50
REFERENCES	51
APPENDIX A: INTEGRATION OF VEINS FRAMEWORK WITH OMNET++ NETWORK SIMULATOR.....	54

List of Tables

Table 1: Comparison between proactive and reactive routing protocols	5
Table 2: Comparison between different types of routing protocol.....	13
Table 3: Comparison between MANETS and VANETs.....	14
Table 4: Comparison between different types of mobility models	20
Table 5: Qualitative comparison of studied mobility simulators	22
Table 6: Comparison of studied network simulators.....	28
Table 7: GUI comparison of different VANET simulators.....	33
Table 8: Comparison between different integrated frameworks of VANET simulators	34

List of Figures

Figure 1: Classification of routing protocols in vehicular ad-hoc networks.	3
Figure 2: Fisheye routing protocol.	4
Figure 3: Ad-hoc on demand vector routing protocol	5
Figure 4: Zone routing protocol	6
Figure 5: Categories of position based routing protocols.....	7
Figure 6: Greedy perimeter stateless routing protocol	8
Figure 7: Static node assisted routing in VANET	8
Figure 8: Clustering based routing protocols	9
Figure 9: Vehicular ad-hoc networks transmission strategies.....	10
Figure 10: Comparison of the location based multicast (LBM) schemes	11
Figure 11: Voronoi diagram and the request zone	11
Figure 12: Directed acyclic graph (DAG)	12
Figure 13: A taxonomy of VANET simulation software	15
Figure 14: Vehicular ad-hoc network simulation software	16
Figure 15: Concept map of mobility model generation.....	17
Figure 16: Vehicular mobility models approaches.....	18
Figure 17: Simulators vs Emulators	23
Figure 18: Basic architecture of NS-2 simulator.....	25
Figure 19: The architecture of OMNeT++ simulations.....	26
Figure 20: The conceptual architecture of a federated traffic/network simulator	29
Figure 21: Three different methods for constructing an integrated traffic/network simulator.	30
Figure 22: The network-centric mode of TraNS	31
Figure 23: The application-centric mode of TraNs	31
Figure 24: Veins architecture	35
Figure 25: Veins Integrated simulation between SUMO and OMNeT++	36
Figure 26: The network used to evaluate the selected three protocols.....	38
Figure 27: Mean of number of Packets drop not addressed to specific node.....	39
Figure 28: Mean number of packets drop incorrectly received to specific node	40
Figure 29: loss rate of sent packages	40
Figure 30: Mean of number of Packets drop not addressed to specific node.....	42
Figure 31: Mean number of packets drop incorrectly received to specific node	42
Figure 32: loss rate of sent packages	43
Figure 33: Mean of number of Packets drop not addressed to specific node.....	44
Figure 34: Mean of number of packet received sequence.	45
Figure 35: Mean of number of Packets drop not addressed to specific node.....	45
Figure 36: Mean of number of packet received sequence.	46
Figure 37: loss rate of sent packages for three different scenarios.....	46
Figure 38: Applying real case scenarios.....	48
Figure 39: Speed analysis for the nodes of the network.....	49
Figure 40: CO2 emission analysis for the nodes of the network.....	49
Figure 41: Importing Veins framework into OMNET++ workspace -1	54
Figure 42: Importing Veins framework into OMNET++ workspace – 2.....	54
Figure 43: Importing Veins framework into OMNET++ workspace – 3.....	55
Figure 44: Importing Veins framework into OMNET++ workspace – 4.....	55
Figure 45: Importing Veins framework into OMNET++ workspace – 5.....	55

Figure 46: Make sure SUMO is working – 1	56
Figure 47: Make sure SUMO is working – 2	56
Figure 48: Make sure SUMO is working – 3	57
Figure 49: Run the veins framework	57