شبكة المعلومات الجامعية

التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم

HANAA ALY

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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
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HANAA ALY

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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Under the Supervision of

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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.

Name: Ahmed Mohamed Abdelaal Hassanein Elsherif Date: / / 2021

Signature:

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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