شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

شبكة المعلومات الجامعية

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MONA MAGHRABY

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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
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MONA MAGHRABY

Ain Shams University

Faculty of Engineering

Electronics and Communications Engineering Department

Architecture and Modeling of Machine to Machine Communications on Heterogeneous Networks

A Thesis
Submitted in partial fulfillment for the requirements of the degree of:
Doctoral of Philosophy in Electrical Engineering
(Electronics and Communications Engineering)

Submitted By

Amin Al-Said Ibrahim, M.Sc.

Supervised By

Prof. Dr. Mohamed Abouelatta

Electronics and Communications Engineering Department,
Faculty of Engineering
Ain Shams University

Ass. Prof. Khaled Youssef Youssef Kamel

Communications Engineering Department,
Faculty of Navigation Science & Space Technology
Beni-Suef University

Ass. Prof. Hesham Sayed Kamel Ali

Electronics & Communication Department,
Canadian Higher Engineering Institute
Canadian International College (CIC)

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Ain Shams University
Faculty of Engineering
Electronics and Communications Engineering Department

Judgment Committee

Name: Amin AL-Said Ibrahim Ali

Thesis: Architecture and Modeling of Machine to Machine Communications on Heterogeneous Networks

Degree: Doctoral of Philosophy in Electrical Engineering

Name, Title Affiliation	**Signature**
Prof. Dr. Abdel Aziz Mahmoud Albaseouni, Electronics and Communications Engineering Department, El Shrouk Academy for Engineering	
Prof. Dr. Wagdy Refaat Anees Electronics and Communications Engineering Department, Faculty of Engineering, Ain Shams University	
Prof. Dr. Mohamed Abouelatta Electronics and Communications Engineering Department, Faculty of Engineering, Ain Shams University	

Date: / /

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Ain Shams University
Faculty of Engineering
Electronics and Communications Engineering Department

Statement

This dissertation is submitted to Ain Shams University in partial fulfillment of the degree of Doctoral of Philosophy in Electrical Engineering (Electronics and Communications Engineering).

The work included in the thesis was carried out by the author at and Thebes Academy laboratories of the Department of Electronic and communication and EL2 Company Laboratory

No part of this thesis has been submitted for a degree or qualification at any other university or institute.

Name : Amin Al-Said Ibrahim

Signature :

Date :

Ain Shams University
Faculty of Engineering
Electronics and Communications Engineering Department

Curriculum Vitae

Name of the researcher	:	Amin Al-Said Ibrahim Ali
Date of Birth	:	19- 8- 1984
Place of Birth	:	Egypt
Nationality	:	Egyptian
First University Degree	:	M.Sc in Electronics and Communications Engineering, Thebes Higher Institute for Engineering
Certification Date	:	June 2013

Name : Amin Al-Said Ibrahim

Signature :

Date

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Abbreviations

AC	Alternate Current
AES	Advanced Encryption Standard
AMI	Advanced Metering Infrastructure
AP	Access Point
ARQ	Automatic Repeat Request
BER	Bit Error Rate
BLE	Bluetooth Low Energy
B-PLC	Broadband-Power Line Communication
BSS	Basic Service Set
BSS	Base Station Subsystem
BSC	Base Station Controller
B2G	Beyond 2G
CDF	Cumulative Distribution Function
Cds	A cadmium-sulfide
CLCP	Cross Layer Commit Protocol
CO	Carbon Monoxide
CO2	Carbon Dioxide
CRC	Cyclic Redundancy Check
DIFS	Distributed Coordination Function Inter-Frame Space
DS	Design of Systems on Silicon
DSSS	Direct Sequence Spread Spectrum
ED	Event-Driven
EECP	Energy Efficient Clustering Protocol
EMC	Electromagnetic Compatibility
EPC	Evolved Packet Core
ESS	Extended Service Set
ETSI	European Telecommunications Standard Institute
e-UTRAN	enhanced-UMTS Radio Access Network
FCC	Federal Communications Commission
FDMA	Frequency Division Multiple Access
FEC	Forward Error Correction
FFD	Full Function Device
FHSS	Frequency Hopping Spread Spectrum
FSK	Frequency Shift Keying
FTP	File Transfer Protocol
GERAN	GSM EDGE Radio Access Network
GPRS	General Packet Radio Service
GSM	Global System Mobile