

Curriculum Vitae
Ihab AbdelWahab AbdelGawad Ali

I. Personal

Name: **Ihab AbdelWahab AbdelGawad Ali**

DOB: 15/10/1962

Nationality: Egyptian

Current Job: Professor, Electronics, Communications and Computer Eng. Dept., Helwan University.

Social Status: Married

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II. Education

Ph.D., Communications and Electronics Eng., Helwan University, Helwan, Cairo, Egypt, July 1997 (**Under Joint-Supervision Channel, Helwan University/Queen's University, Canada**).

Thesis title, “ **Fast Switching for Broadband ISDN: Routing in Asynchronous Transfer Mode**”

M.Sc., Communications and Electronics Eng., Helwan University, Helwan, Cairo, Egypt, July 1991.

Thesis title, “**Transmission of Scrambled Voice over Bandlimited Channels**”

B.Sc., Communications and Electronics Eng., Helwan University, Helwan, Cairo, Egypt, May 1985. Grade: Excellent (87.82%). Rank: First on a class of 186 students. Project grade: Excellent.

Project title “**Realization of Digital Filters through their Polar Curves**”

III. Other Qualifications

1. Successfully passed “Credit Hour System Workshop,” Helwan University.
2. Successfully passed “Strategic Planning Workshop,” Helwan University.
3. Successfully passed “Managing Research Team Workshop,” Helwan University.
4. Successfully passed “Competitive Research Projects Workshop,” Helwan University.
5. Successfully passed “Time and Conference Management Workshop,” Helwan University.
6. Successfully passed “Active Presentation Workshop,” Helwan University.
7. Successfully passed International Computer Driving License (ICDL) exams at Umm Al-Qura University Computer Centre.
8. Successfully passed an E-Learning course titled “**Black Board**” at Umm Al-Qura University Computer Centre.
9. Successfully passed two training courses offered by Motorola University; a course titled “**Operation of Van Guard Devices** ” and a course titled “ **Simple Network Management Protocol** ”.
10. Successfully passed a training course given by **US AID** in “**Y2K Readiness Processes, Procedures and Techniques**” at the **Egyptian High Tec Association (EHITA)**.
11. Successfully passed “Faculty Member Preparation Workshop,” Helwan University.

IV. Awards

1. Egyptian Government Scholarship, Ph.D. Co-Supervision Program, Helwan University, Egypt -- Queen’s University, Canada, Oct. 1994-Feb. 1997.
2. Excellence Award, Helwan University, 1982-85. I stood first on my class for those three undergraduate years with grade Excellent.

V. Employments

1. Vice Dean, Environment and Community Services Affairs, Faculty of Engineering at Helwan, Helwan University, Egypt since February 2017.
2. Department Head, Communications, Electronics and Computer Eng. Dept., Helwan University, Egypt since October 2016.
3. Professor, Communications, Electronics and Computer Eng. Dept., Helwan University, Egypt since February 2013.
4. Department Head, Communications, Electronics and Computer Eng. Dept., Helwan University, Egypt August 2013-June 2014.
5. Associate Professor, Communications, Electronics and Computer Eng. Dept., Helwan University, Egypt from April 2004 to January 2013.
6. Co-ordinator, Communications and Information Technology Special Program, Faculty of Engineering at Helwan, Helwan University, Egypt since February 2010.
7. Assistant Professor, Electrical Eng. Dept., Umm Al-Qura University, Makkah, Saudi Arabia, September 2002-July 2009.

8. Assistant Professor, Computer Eng. Dept., October 6 University, October 2001 – September 2002.

9. Assistant Professor, Communications and Electronics Eng. Dept., Helwan University, Egypt Oct. 1997 – April 2004.

10. Visiting Professor, United Arab Emirates University, Al-E-Ain, UAE, March-June 2000.

11. Visiting Scholar, Electrical and Computer Eng. Dept., Queen's University, Canada, Oct. 1994-Feb. 1997.

12. Assistant Lecturer, Communications and Electronics Eng. Dept., Helwan University, Egypt, Oct. 1991-Oct. 1997.

13. Instructor, Communications and Electronics Eng. Dept., Helwan University, Egypt, March 1986-Oct. 1991.

VI. Computer Experience

1. I joined a teamwork developing a Network Simulation Tool software package called QUARTS at Queen's University. My contribution was the development of the Routing Module. For more details about that project please refer to reference [27] in publications' section below. I've supervised projects to add support of multicasting and mobility to the simulator now called MobiATROS at Helwan University (see references [1,24] below).

2. Programming in C in both DOS/Windows and UNIX platforms.

VII. Teaching and Training Experience

1. From March 1986 to Oct. 1994, I've been assisting in teaching many courses such as: Communications Theory and Systems, Data Communications and Computer Networks, Mobile Communications, Broadband Communications, Information Theory and Coding, Electronic Devices, Analog and Digital Electronic Circuits, Circuit Theory, Antennas and Wave Propagation.

2. Since Oct. 1997, I've been teaching courses in the area of Communications and Networking for both Undergraduate and Postgraduate students at Helwan University, October 6 University, United Arab Emirates University and Umm Al-Qura University and many other universities.

3. Supervising many graduation Projects; Including, Development of Network Simulation Tools, Data Communication over Power Lines, Secure Multimedia Communications, Public and Symmetric Key Encryption Implementation and Voice Transmission over Slotted Ring LANs.

4. Technical Training at Mansoura University Computing Center in 1997. I've been teaching its Engineering Staff Computer Networking and ATM.

5. Technical Reader (1999-2000) at “Systems Engineering of Egypt (SEE)”; a leading networking company in Egypt that sells, builds and maintains networking devices for the leading vendors all over the world. My job responsibility was to update the Engineers at SEE with the newest technologies and products.

6. Technical Training at the Egyptian Cabinet’s Information Technology Institute (1998-2000). I’ve been lecturing Computer Networks , High-speed networking (Frame Relay, ATM, etc.) and Network Security.

VIII. Publications

1. Ahmed F.Sayed, Tamer M. Barakat , **Ihab A. Ali**, “A Novel Dispersion Compensation Model using an Efficient CFBG Reflectors for WDM Optical Networks,” *INTERNATIONAL JOURNAL OF MICROWAVE AND OPTICAL TECHNOLOGY*, VOL.12, NO.3, MAY 2017, pp 230-238.
2. Fatty M. Salem, Maged H. Ibrahim, **Ihab A. Ali**, and I. I. Ibrahim, “A Channel-Based Hypothesis Testing Approach for Secure Cognitive Radio Network Communications,” *International Journal of Data & Network Security*, vol. 4, No. 2, 2016, pp. 234-241.
3. **Ihab A. Ali**, “Overview of Software Defined Networks: Current Status and Future Trends,” Accepted for publication in 2nd workshop on Software Defined Network & Network Function Virtualization 2016.
4. Ahmed Samir, Mahmoud M. Elmesalawy, A. S. Ali, and **Ihab Ali**, “An Improved LTE RACH Protocol for M2M Applications,” *Mobile Information Systems*, vol. 2016, Article ID 3758507, 2016. doi:10.1155/2016/3758507.
5. Ahmed Samir, Mahmoud M. Elmesalawy, Ahmed Salah EL-Din Ali, **Ihab Ali**, “Partial Contention Free Random access Protocol for M2M communications in LTE Networks,” *Journal of Wireless Networking and Communications*, p-ISSN: 2167-7328 e-ISSN: 2167-7336, 2016; 6(3): 66-72’ doi:10.5923/j.jwnc.20160603.02.
6. Ali M. Allam, Mohamed Saied, and **Ihab Ali**, "Adapting LTE M-2-M Protocol Standard to Fulfil Latency Requirements for IEC 61850 GOOSE Messages," *International Journal of Communications, Network and System Sciences*, vol. 8, no.5, pp. 154-160, May 2015.

7. Ali M. Allam, **Ihab A. Ali**, and Shereen M. Mahgoub, "A provably secure certificateless organizational signature scheme," *International Journal of Communication Systems*, DOI: 10.1002/dac.3038, 2015. (Thomson Reuters IF: 1.106).
8. Shereen M Mahgoub, Ali M Allam and **Ihab Abdel-wahab Ali**, "An Efficient Organizational Signature Schemes based on the Elliptic Curve Cryptography," *International Journal of Applied Information Systems* 7(11):7-10, November 2014. Published by Foundation of Computer Science, New York, USA.
9. Fatty M. Salem, Maged H. Ibrahim, **Ihab. A. Ali**, and I. I. Ibrahim, "Matched-Filter-Based Spectrum Sensing for Secure Cognitive Radio Network Communications", *International Journal of Computer Applications* (Impact Factor: 0.821), vol. 87, no. 1, 2014, pp. 41-46.
10. M.M. Eissa, **Ihab A. Ali**, K.M. Abdel-Latif, "Wi-Fi protected access for secure power network protection scheme," *International Journal of Electrical Power and Energy Systems*, November 2012, pp. 414-424. ISSN: 0142-0615.
11. *Mohamed A.Ouda*, *Sameh A. Salem*, **Ihab A. Ali**, and *El-Sayed M.Saad*, "Privacy-Preserving Data Mining (PPDM) Method for Horizontally Partitioned Data," *IJCSI International Journal of Computer Science Issues*, Vol. 9, Issue 5, No 1, September 2012 ISSN (Online): 1694-0814.
12. Fatty M. Salem, Maged H. Ibrahim, and **Ihab A. Ali**, " SECURE AUTHENTICATION SCHEME PREVENTING WORMHOLE ATTACKS IN COGNITIVE RADIO NETWORKS, " *Asian Journal Of Computer Science And Information Technology* 2: 4 (2012) 52– 55. Also published in *IEEK Transactions on Smart Processing and Computing*, vol. 2, no. 6, 2013, pp. 357-366.
13. **Ihab A. Ali**, Ali M. Allam and Sherin M. Mahgoub, "A New Direction in Digital Signature Systems: Organizational Signature," *International Journal of Computer Information Systems*, Vol. 3, No. 4, 2011, pp 90-96.
14. *Hosam A. Rahhal*, **Ihab A. Ali**, *Samir I. Shaheen*, " A Novel Trust-Based Cross-Layer Energy- Aware Routing Protocol for WSNs," *International Journal of Computer Information Systems*, Vol. 3, No. 4, 2011, pp 50-60.
15. Ahmed M. Abd El-Haleem, **Ihab A. Ali**, Ibrahim I. Ibrahim, " AOMDV Based TRIUMF Implementation and Performance Evaluation, " *International Journal of Computer Information Systems*, Vol. 3 , No. 2, 2011
16. Ahmed M. Abd El-Haleem, **Ihab A. Ali**, Ibrahim I. Ibrahim, Abdel Rahman H. El-Sawy, "Analytical Model and Performance Evaluation for the TRIDNT protocol," *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 4, No 1, July 2011.

17. Ahmed M. Abd El-Haleem, **Ihab A. Ali**, "TRIUMF: Trust-Based Routing Protocol with controlled degree of Selfishness for Securing MANET against Packet Dropping Attack," *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 4, No 1, July 2011.
18. Ahmed M. Abd El-Haleem and **Ihab A. Ali**, "TRIDNT: THE TRUST-BASED ROUTING PROTOCOL WITH CONTROLLED DEGREE OF NODE SELFISHNESS FOR MANET," *International Journal of Network Security & Its Applications (IJNSA)*, Vol.3, No.3, May 2011.
19. *Hosam A. Rahhal, Ihab A. Ali, Samir I. Shaheen*, "A Novel Trust-Based Cross-Layer Model for Wireless Sensor Networks," 28th NATIONAL RADIO SCIENCE CONFERENCE (NRSC 2011) April 26-28, 2011, National Telecommunication Institute, Egypt.
20. Ahmed M. Abd El-Haleem, **Ihab A. Ali**, Ibrahim I. Ibrahim, Abdel Rahman H. El-Sawy, "Trust Model for TRIDNT Trust Based Routing Protocol," *Proceedings of the 2nd International Conference on Computer Technology and Development (ICCTD 2010)*, November 2-4, 2010, Cairo, Egypt.
21. Ahmed M. Abd El-Haleem, **Ihab A. Ali**, Ibrahim I. Ibrahim, Abdel Rahman H. El-Sawy, "TRIDNT: Isolating Dropper nodes with some degree of Selfishness in MANET," *Proceedings, First International Conference on Computer Science and Information Technology, CCSIT 2011*, Bangalore, India, January 2-4, 2011.
22. **Ihab Ali**, "MobiATROS: A Network Simulator with Mobility and Multicasting Support," *Proceedings of the 4th International Multiconference on Computer Science and Information Technology*, College of Computer Science and Information Technology, Applied Science Private University, Amman, Jordan, 2006.
23. Ibrahim I. Ibrahim, **Ihab A. Ali**, Abd El-Rahman H. ElSawy and Mahmoud M. El-Mesalawy, "Performance Analysis for QoS Provisioning in MPLS/DiffServ-Based IP Network," *Journal of Engineering Sciences (JES)*, Faculty of Engineering - Assiut University, vol. 33, Egypt, 2005.
24. Mahmoud M. El-Mesalawy, **Ihab A. Ali**, Ibrahim I. Ibrahim, Abd El-Rahman H. Elsayy, "QoS Enhancement in MPLS-Based IP Networks," *Journal of Engineering Sciences (JES)*, Faculty of Engineering - Assiut University, vol. 33, Egypt, 2005 .
25. M. A. Habeib, I. I. Ibrahim, **I. A. Ali** and N. A. El-Fishawy, "Enhanced Hopfield Neural Network for Dynamic Channel Assignment," *Al-Azhar Engineering Eighth International Conference, AEIC 2004*, vol. 8, No. 3, pp. 124-132, Egypt, 2004.
26. Maged H. Ibrahim, **I. A. Ali** I. I. Ibrahim and A. H. El-Sawy, "Reducing the Risk of the Honest Dealer Assumption in Robust Threshold RSA Function Sharing," *Proceedings of the 1st International Computer Engineering Conference*, Cairo, Egypt, 2004.

27. Maged H. Ibrahim, **I. A. Ali** I. I. Ibrahim and A. H. El-Sawy, "Fast Fully Distributed and Threshold RSA Function Sharing," Proceedings, International Conference on Information Technology (ISNG 2004), pp. 11-15, Las Vegas, Nevada, USA, 2004.
28. Ali M. Allam, Ibrahim I. Ibrahim, **Ihab A. Ali** and Abdel Rahman H. EI-Sawy, "The Performance of an Efficient Zero-Knowledge Identification Scheme," The 2004 International Conference on Electrical, Electronic and Computer Engineering (ICEEC'04), Cairo, Egypt, 2004.
29. Tamer Barakat, Ibrahim Ismail, **Ihab Ali** and Nabil Abdrabouh, "Optimized Security of WAP based on Modification of Encryption Algorithm for PKQ Cryptosystem in Mobile Networks," The Ninth IEEE Symposium on Computers and Communications, Egypt, 2004.
30. Ali M. Allam, Ibrahim I. Ibrahim, **Ihab A. Ali** and Abdel Rahman H. EI-Sawy, "Provably Secure Entity Authentication- The Three Party Case," The Ninth IEEE Symposium on Computers and Communications, Egypt, 2004. The paper was awarded the co-best paper award by the technical program committee of the conference. This paper has also been accepted by the 17th Annual Canadian Conference on Electrical and Computer Engineering, 2004.
31. Maged H. Ibrahim, **I. A. Ali** I. I. Ibrahim and A. H. El-Sawy, "Fully Distributed and Robust Threshold RSA Function Sharing Efficient for Small Number of Players," International Journal of Computer Researches (IJCR), New York, USA, 2004. The paper was also published as a chapter in a book titled, Embedded Cryptographic Hardware: 2004 Methodologies and Architectures, ISBN: 1-59454-012-8, Nova Science Publishers, Inc., New York, USA, Chapter XI, pp. 185-211, 2004.
32. **Ihab A. Ali** and Mohammed J. Alawi, "Analysis and Design of Band-Split Audio Scrambler," The Journal of United Arab Emirates University, United Arab Emirates, 2004.
33. Maged H. Ibrahim, **I. A. Ali**, I. I. Ibrahim, A. H. El-Sawy, "Multiparty Shared Generation of RSA Keys Efficient For Large Number of Players," Accepted for publication in the proceedings of Applied Cryptography and Network Security Conference (ACNS 2004), Yellow Mountain, China, 2004 (Neither presented nor published).
34. Ahmed S. Aly, **I. A. Ali**, I. I. Ibrahim and A. H. EI-Sawy, "Grouped Dynamic Multicast Tree (GDMT) Algorithm for Mobile Networks," Journal of Engineering Sciences (JES), Faculty of Engineering - Assiut University, vol. 32, no. I, 2004.
35. Ali M. Alam, **I. A. Ali**, Ibrahim I. Ibrahim and A. H. EI-Sawy, "Efficient Zero-Knowledg Identification Scheme With Secret Key Exchange," The 46th IEEE International Midwest Symposium on Circuits and Systems , Nile Hilton, Cairo, Egypt, 2003.
36. Ahmed S. Aly, **Ihab A. Ali**, Ibrahim I. Ibrahim and Abdel Rahman H., EI-Sawy, "Design of Soft Handover Protocol for Mobile ATM Networks" The 46th IEEE

International Midwest Symposium on Circuits and Systems , Nile Hilton, Cairo, Egypt, 2003.

37. Maged H. Ibrahim, **I. A. Ali** and A. H. El-Sawy, "Robust threshold elliptic curve digital Signature providing a New Verifiable Secret Sharing Scheme," The 46th IEEE International Midwest Symposium on Circuits and Systems , Nile Hilton, Cairo, Egypt, 2003.
38. Ahmed S. Aly, **Ihab A. Ali**, I. I. Ibrahim and A. H. El-Sawy, " Fast, Optimized and Scalable Combined Re-routing Protocol based on Decision Criteria for Multimedia Communication in Mobile ATM Networks," Proceedings of Mediterranean Microwave Symposium MMS 2003, Ein Shams University, Cairo, Egypt, 2003.
39. Ahmed S. Ali, **Ihab A. Ali**, Ibrahim I. Ibrahim and Abdel Rahman H. El-Sawy, "An Effective Lossless Inter-Switch Handover Signaling Procedure for Multimedia Transmission in Wireless ATM Networks," Proceedings of Al-Azhar Engineering 7 th international Conference, Cairo, 2003.
40. A. H. Moawad, **I. A. Ali**, G. A. Khalaf and A. H. El-Sawy, "Analysis and Modeling of Multi-Protocol Edge Router Carrying Voice/IP/ATM Traffic," Proceedings of 7th International Conference on Intelligent Engineering Systems INES, Assiut-Luxor, Egypt, 2003.
41. Ahmed S. Ali, **Ihab A. Ali**, Ibrahim I. Ibrahim and Abdel Rahman H. El-Sawy, "A unified Lossless Intra-Switch Handover Algorithm For Mobile ATM Networks," Proceedings of 7th International Conference on Intelligent Engineering Systems INES, Assiut-Luxor, Egypt, 2003.
42. Maged H. Ibrahim, **I. A. Ali** and A. H. El-Sawy, "Multiple Encryption – Multiple Modes with Optimal Secret Parameters, " Journal of the Faculty of Engineering, Cairo University, Cairo, Egypt, 2002.
43. Nariman A. El-Salam, Tarek A. El-Mageed, **Ihab A. El-Wahab** and Hatem El-Bolock, "Non-Repudiation Using Digital Signature," Proceedings of First International Conference on Informatics and Systems, INFOS 2002, Cairo, Egypt, 2002.
44. Maged H. Ibrahim, **I. A. Ali** and A. H. El-Sawy, "Analysis of triple encryption schemes As a block cipher protection against exhaustive-key search, " Journal of the Faculty of Engineering, Cairo University, Cairo, Egypt, 2001.
45. **I. A. Ali**, "ATROS: A Simulator for the Design and Analysis of ATM Networks and Protocols," Proceedings of 17th National Radio Science Conference, Minoufya University, Egypt, 2000.
46. **I. A. Ali**, A. H. El-Sawy and H. T. Mouftah, " A New Hierarchical Routing Method for Broadband ISDN," Proceedings of 15th National Radio Science Conference, Helwan, Egypt, 1998.

47. **I. A. Ali**, H. T. Mouftah and A. H. El-Sawy, “ A Dynamic Routing Protocol for Broadband Networks,” Proceedings of 2nd IEEE Symposium in Computers and Communications, Alexandria, Egypt, 1997.
48. **I. A. Ali**, M. Sivabalan and H. T. Mouftah, “QUARTSII: A Simulator for the Design and Analysis of Broadband Control Architectures,” Proceedings of IEEE Symposium in Planning and Design of Broadband Networks, Montebello, Canada, 1996.
49. **I. A. Ali**, H. T. Mouftah, A. H. El-Sawy and A. I. Mahdaly, “ Design of Dynamic Hierarchical Routing for ATM Networks,” Proceedings of 18th Biennial Symposium in Communications, Kingston, Canada, 1996.
50. **I. A. Ali**, H. T. Mouftah, A. H. El-Sawy and A. I. Mahdaly, “ Performance Evaluation of Hierarchical Routing in ATM Networks,” Proceedings of Canadian Conference in Electrical and Computer Engineering, Calgary, Canada, 1996.

IX. Technical Presentations

1. **Ihab A. Ali**, “Handover Management in Mobile Networks,” Survey paper, Associate Professor Elevation Committee, Egypt 2004.
2. **I. A. Ali**, “ Flat versus Hierarchical Routing in ATM Networks,” Communications Research Center (CRC), Ottawa, Canada, 1996.
3. **I. A. Ali**, “ Flat versus Hierarchical Routing: A Comparative Study,” NORTEL Technologies, Ottawa, Canada, 1996.
4. **I. A. Ali**, “ ATHIROS: an ATM Hierarchical Routing Simulator,” Technical Report, Electrical and Computer Eng. Dept., Queen’s University, Kingston, Canada, Sept. 1996.

X. Technical Activities

1. Evaluator, Faculty promotion committee, Supreme Council of Egyptian Universities, 2013-2016 period.
2. Senior Member, IEEE, since 2003.
3. Member of IEEE Communications Society since 1997.
4. Member, Supreme Committee of Information Technology, Helwan University.
5. Member, Smart Learning Committee, Helwan University.
6. Referee, Egypt Engineering Day Competition, 2011.
7. Member, E-Learning Committee, Faculty of Engineering, Umm Al-Qura University, February-June 2004.
8. Member, Council of Architectural and Engineering Sciences Research Centre, Institute of Scientific Research and Revival of Islamic Heritage, Umm Al-Qura University, Makkah, Saudi Arabia, 2002-2009.
9. Team leader of the Telecommunications group in the project, “Development of Behyra Governorate Villages,” Technological Development Studies and Research Centre, Helwan University, Cairo, Egypt, May-September 2002.

10. Member of Engineering Libraries Automation Committee of the Engineering Education Development Project, Egypt, 1998-2000.
11. Moderating the Library Computer system and network at the Faculty of Engineering, Helwan University, 1998-2000.
12. Shared in the preparation of both undergraduate and postgraduate syllabus, Telecommunications Eng. Dept., Helwan University.
13. Co-ordinator, Special Program on Communications and Information Technology, Dual-Degree with Uninettuno University, Rome, Italy, February 2010 – October 2012 and September 2013 - Now.

XI. Research Activities

My Research interests include Planning and Control of both wired and wireless Networks, Network Security and Cryptography Applications.

I've supervised the following theses:-

1. M.Sc. Thesis titled "Public Key Cryptography and its application in Digital Signature". Helwan University.
2. M.Sc. Thesis titled "Security in the Wireless Application Protocol". Helwan University.
3. M. Sc. Thesis titled "Analysis of Symmetric Key Cryptosystems," Helwan University.
4. M. Sc. Thesis titled "Internetworking IP and ATM," Helwan University.
5. Ph.D. Thesis titled "Fast Handover in Mobile Networks," Helwan University.
6. M.Sc. Thesis titled "A Re-programmable ATM Line Terminator," Helwan University.
7. M.Sc. Thesis titled "Dynamic Channel Assignment for Mobile Networks using Neural Networks," Helwan University.
8. M.Sc. Thesis titled "Analysis of Identification Protocols," Helwan University.
9. Ph.D. Thesis titled, " Trust-Based Routing in Mobile Ad Hoc Networks," Helwan University.
10. Ph.D. Thesis titled, " Cross Layer Secure Routing in Wireless Sensor Networks," Cairo University.
11. M.Sc. Thesis titled, " DNC Production Management using Wi Fi Network Technology," Helwan University.
12. M.Sc. Thesis titled, " Development of Organizational Signature System," Helwan University.
13. Ph. D. Thesis titled, " Privacy Preserving Data Mining," Helwan University.
14. Ph.D. Thesis Titled, "INTEGRATION OF CRYPTOGRAPHIC AND NON-CRYPTOGRAPHIC SECURITY MECHANISMS FOR EFFICIENT AUTHENTICATION AND DETECTION IN COGNITIVE RADIO NETWORK, " Helwan University

15. M.Sc. Thesis Titled, "Adapting Long Term Evolution Machine-to-Machine Protocol Standard to fulfill Latency requirements of Smart Grids, " Helwan University, Egypt joint with South Westphalia University, Germany.

XII. Languages

Arabic Native language

English Reading and writing: Very Good.

Speaking and listening: Good.

TOEFL score: 577 Marks.