

RESUME/CURRICULUM VITAE

Name Walid Kamal Ghamry Elsayed
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Nationality Egyptian

CAREER PROFILE/SUMMARY

My professional worked experience in computer communications engineering and electronic circuits design. I worked as a team work to implement a various electronic circuits in biomedical and industrial mechanical engineering. In computer communications, I participated in the design and implementation of various types of computer communications networks with various qualities of services. In software industry, I participated in the design and implementation of various types of big software projects (Data Base management, Control systems, signal image processing, and pattern recognition). In academia, I have worked with various Institutions and universities of Higher Learning as Assistant Professor and Adjunct Teacher including, Kuwait University, Highly Institute for Engineering Egypt, Teba Academy for Engineering Egypt, National Institute Kuwait, and Badr Institute Kuwait. My academia works in fields of Electronics & Electrical Communications Engineering and Computer Engineering. During my professional career, I have attended more than fifteen professional development courses and training sessions.

My research interests include, wireless communication systems, mobile communications, High-Speed Downlink Packet Access (HSPA) and Long Term Evolution (LTE) for Mobile broadband, and Internet of Things.

Keywords: Electronics and Electrical Communications Engineering, Computer Communications Engineering, Computer Engineering, Computer Science.

EDUCATION/ACADEMIC QUALIFICATIONS

04/2010 **Ph.D.** Electronics and Electrical Communications Engineering – Computer Communications Engineering.
The title of the thesis is “**Topological Network Design, Performance and Reliability in Complex Networks at the Router Level**”, Cairo University, Faculty of Engineering, April 2010.

02/2003 **M.Sc.** Electronics and Electrical Communications Engineering – Computer Communications Engineering.
The title of the thesis is “**Congestion Avoidance and Explicit Allowed Rate for transmitting integrated Services over ATM Networks**”, Cairo University, Faculty of Engineering, Feb 2003.

05/1988 **B.Sc.** Electronics and Electrical Communications Engineering Cairo University, Faculty of Engineering, May 1988.

EMPLOYMENT HISTORY

Sept 2011 – Present

Albaha University, Al-Baha, K.S.A.

Assistant Professor, Computer Engineering - Faculty of Computer Science and Information Technology

2007 – Aug 2011

Departments of Electrical Communications Engineering and Computer Engineering, Highly Institute for Engineering, 6 October University, Egypt, Cairo

Assistant Teacher & Instructor

1999 – 2006

Teba Academy for Engineering Science, Egypt, Cairo. Department of Electrical Communications Engineering

Assistant Teacher

1991 – 1998

Kuwait University, Department of Electrical Engineering, Kuwait.

Lecturer

1988 – 1991

Egyptian Cultural Centre for Computer Studies, Egypt, Cairo.

Lecturer

PUBLICATIONS

- Ghamry, W.K., Shukry, S. Multi-objective intelligent clustering routing schema for internet of things enabled wireless sensor networks using deep reinforcement learning. *Cluster Comput* (2024). <https://doi.org/10.1007/s10586-023-04218-0>
- Walid K. Ghamry and Suzan Shukry, "Spectrum access in cognitive IoT using reinforcement learning", *Cluster Computing: The Journal of Networks, Software Tools and Applications*, Springer, Vol. 24, No. 4, pp. 2909–2925 (2021). <https://doi.org/10.1007/s10586-021-03306-3>
- Walid K. Ghamry and Suzan Shukry, "Performance evaluation of cooperative eigenvalue spectrum sensing GLRT under different impulsive noise environments in cognitive radio", *Computer Communications*, Elsevier, Vol. 160, pp. 567-576, July 2020.
- Walid K. Ghamry and Suzan Shukry, "On the Interplay of Network Structure and Routing Strategies on Network Design Methods for Mitigation of Intentional Attacks in Scale-Free Networks", *Springer, Journal of Network and Systems Management*, Vol. 25, No. 3, pp. 508-535, July 2017.

- Walid K. Ghamry, and Khaled M. F. Elsayed, “Network Design Methods for Mitigation of Intentional Attacks in Scale-Free Networks”, Springer Telecommunication Systems Journal, Vol. 49, No. 3, pp. 313-327, Mar 2012.
- Walid K. Ghamry, and Khaled M. F. Elsayed, “On the Interplay of Network Structure and Routing Strategies in Scale-Free Networks”, Springer Annals of Telecommunications Journal, Vol. 66, No. 1-2, pp. 17-29, Feb 2011.
- W. K. Ghamry, K. M. F. Elsayed, and A. Nassar, “A New Small-World Rewiring Method for Construction of Heuristically Optimized Power-Law Network Topologies”, Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Vol. 57, No. 4, August 2010.
- Walid Kamal Ghamry, Khaled. M. Fouad Elsayed, and Ameen Nassar, “A New Heuristically Optimized Power-Law Network Topology Design Of Complex Networks At Router-Level”, Journal of Al Azahar University Engineering Sector, JAUES, Vol. 5, No. 14, pp. 21-36, Jan 2010.
- Ghamry, W. K., Elsayed, K. M. F., and Nassar, A. M., “On the Interplay of Network Structure and Routing Strategies for Performance in Scale-Free Networks”, In Proceedings of IEEE, HONET’09, 6th International Symposium on High Capacity Optical Networks & Enabling Technologies Conference, Alexandria, Egypt, , pp. 103 – 109, December 2009.
- Ghamry, Walid K., Elsayed, Khaled M. F., and Nassar, Ameen, “A new small world rewiring method for construction of HOT based router-level network topologies”, In Proceedings of IEEE, WOCN’09, 9th International Conference on Wireless and Optical Communications Networks, Cairo, April 2009.
- Walid K. Ghamry, Bahnsy M. Nossir and Mohamed G. Darwish, “An efficient traffic control scheme for transmitting integrated Services over ATM networks”, Monefya magazine, Jan 2004.
- Walid K. Ghamry, Bahnsy M. Nossir and Mohamed G. Darwish, “Congestion Avoidance and Explicit Allowed Rate for transmitting integrated Services over ATM networks”, The proceedings of the 2002 International Arab Conference on Information Technology(ACIT 2002), Vol. 8, Dec. 2002, pp. 162-169.

PRESENTATIONS

- Name of conference: HONET’09, 6th International Symposium on High Capacity Optical Networks & Enabling Technologies Conference
Place: Alexandria, Egypt
Date: December 2009
Title of presentation: "On the Interplay of Network Structure and Routing Strategies for Performance in Scale-Free Networks"
Type of presentation: Oral presentation

- Name of conference: WOCN'09, 9th International Conference on Wireless and Optical Communications Networks
Place: Giza, Cairo
Date: April 2009
Title of presentation: "A new small world rewiring method for construction of HOP based router-level network topologies"
Type of presentation: Oral presentation

- Name of conference: International Arab Conference on Information Technology (ACIT)
Place: Doha, Qatar
Date: December 2002
Title of presentation: "Congestion Avoidance and Explicit Allowed Rate for transmitting integrated Services over ATM networks"
Type of presentation: Oral presentation

RESEARCH FUNDS/GRANTS

TEACHING EXPERIENCE

Sept 2011 – Present

Albaha University, Al-Baha, K.S.A.

Assistant Professor, Computer Science

2007 – Aug 2011

Departments of Electrical Communications Engineering and Computer Engineering, Highly Institute for Engineering, 6 October University, Egypt, Cairo.

Assistant Teacher & Instructor

Courses taught are:

- Electronic Circuits
- Analog and Digital Communication Systems
- Logic Circuits and Systems
- Computer Networks.
- Computer Communications.
- Micro-processor
- Signal system analysis

1999 – 2006

Teba Academy for Engineering Science, Egypt, Cairo. Department of Electrical Communications Engineering

Assistant Teacher

Courses taught are:

- Electronic Circuits
- Signal system analysis
- Analog and Digital Communication Systems
- Logic Circuits and Systems
- Micro-processor
- Computer Networks.
- Network Security systems.
- Operating Systems.
- Information theory.
- Consultant for Engineering Projects.

1991 – 1998

Kuwait University, Department of Electrical Engineering, Kuwait.
Badr Institute and National Institute, Kuwait.

Lecturer

Courses taught are:

- Electronics.
- Computer Networks.
- Engineering Communications.
- Data Structure.
- Image Processing.
- Clipper 5.2.
- Visual Basic.
- Visual C++ and Pascal.

1988 – 1991

Egyptian Cultural Centre for Computer Studies, Egypt, Cairo.

Lecturer

Courses taught are:

- DB III
- DB IV
- C++
- Pascal
- Word processor

COMMITTEES

- Academic guidance officer for the computer department and member of the academic guidance committee, Al Baha, KSA
- Member of the Committee for the equivalence of internal and external courses for the university, Al Baha, KSA

AWARDS

SERVICE/OTHER RELEVANT EXPERIENCE/PROJECTS

CONSULTANCY: journal reviewing for Elsevier and Springer in fields of computer communications engineering

PROFESSIONAL DEVELOPMENT

- Windows NT 4.0 administrator MICROSOFT, KUWAIT
- Core Technologies for windows NT 4.0 MICROSOFT, KUWAIT
- Enterprise Technologies for windows NT 4.0 MICROSOFT, KUWAIT
- Mastering Visual Basic 5 part 1 MICROSOFT, KUWAIT
- Mastering Visual Basic 5 part 2 MICROSOFT, KUWAIT
- Computer networks and design (LAN, WAN) ASR, EGYPT
- Windows 2000 server ASR, EGYPT
- Introduction to C# MICROSOFT, KUWAIT
- Core Web Application Development MICROSOFT, KUWAIT
- Advanced Data Access Development MICROSOFT, KUWAIT
- Core Data Access Development MICROSOFT, KUWAIT
- Advanced Web Application Development MICROSOFT, KUWAIT
- UNIX Operating Systems NCR, EGYPT
- UNIX Systems Administration NCR, EGYPT
- UNIX Files Management ASR, EGYPT
- ICDL NCR, EGYPT
- Ethics in scientific research Baha university, KSA

MEMBERSHIP OF PROFESSIONAL SOCIETIES

REFERENCES