



Curriculum Vitae



Adel El-Zoghabi, Ph.D.

Department of Information Technology

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RESEARCH INTERESTS

1. Parallel and Distributed Intelligent Systems
2. Security and Mobility of Cloud Computing
3. Evolutionary Computing and its Applications

WORK EXPERIENCE

1. June 1987
SYSTEMS ARAB CONSULTANT, LTD Alexandria(EGYPT), Programmer and Assistant Systems Analyst
2. October 1988
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Teaching and Research Assistant in the Department of Information Technology, Institute of Graduate Studies & Research
3. January 1992
OLD DOMINION UNIVERSITY, Norfolk, VA (USA), College of Sciences, Department of Computer Science, Member of a scientific channel system for a Ph.D. program, the Ph.D. thesis titled "Connectionist Expert Systems"
4. December 1993
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Outstanding Faculty Member, Department of Information Technology, Institute of Graduate Studies & Research
5. January 1995
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Assistant Professor of Computer and Information Technology in the Department of Information Technology, Institute of Graduate Studies & Research
6. September 1997
ITI, Visiting Professor at the Information Technology Institute (ITI) of the Cabinet of the Egyptian Ministries

7. September 1999
ARAB ACADEMY FOR SCIENCE AND TECHNOLOGY (AAST),
Alexandria (EGYPT), Visiting Professor, Department of MIS, College
of Business and Economics
8. February 2001
UAE UNIVERSITY, Al-Ain (UAE), Visiting Professor, Department
of MIS, College of Business and Economics
9. March 2001
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Associate Pro-
fessor of Computer and Information Technology in the Department of
Information Technology, Institute of Graduate Studies & Research
10. September 2003
QATAR UNIVERSITY Doha (QATAR), Associate Professor of Com-
puter and Information Technology, Department of Computer Science
and Engineering, Engineering Faculty
11. July 2009
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Associate Pro-
fessor of Computer and Information Technology in the Department of
Information Technology, Institute of Graduate Studies & Research
12. October 2011
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Professor of
Computer and Information Technology in the Department of Infor-
mation Technology, Institute of Graduate Studies & Research
13. September 2012
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Head of De-
partment of Information Technology, Institute of Graduate Studies &
Research
14. September 2015
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Professor of
Computer and Information Technology in the Department of Infor-
mation Technology, Institute of Graduate Studies & Research
15. May 2018
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Vice-Dean for
Graduate Studies & Research, Institute of Graduate Studies & Re-
search
16. August 2018
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Professor of
Computer and Information Technology in the Department of Infor-
mation Technology, Institute of Graduate Studies & Research
17. September 2019
ALEXANDRIA UNIVERSITY Alexandria (EGYPT), Head of De-
partment of Information Technology, Institute of Graduate Studies &
Research

EDUCATION

1. January 2008
CCNA CERTIFIED INSTRUCTOR, Cisco Certified Instructor for CCNA
2. November 1994
OLD DOMINION UNIVERSITY AND ALEXANDRIA UNIVERSITY, Ph.D. in Information Technology: The Ph.D. thesis titled “Connectionist Expert Systems” and proposed a new methodology for expert systems development using hybrid symbolic and neural knowledge components
3. January 1991
ALEXANDRIA UNIVERSITY, M.Sc. in Information Technology: The M.Sc. thesis titled “Information Representation and Retrieval System” and involved building a complete Expert System Shell for handling pattern and image processing applications
4. June 1987
ALEXANDRIA UNIVERSITY, B.Sc. in Computer Science and Automatic Control, Faculty of Engineering

ACCREDITATION EXPERIENCE

1. Qatar University
Contributed in the ABET accreditation, started January 2006, for the CS and CE Programs. Main efforts include: identifying Program Objectives, Syllabus preparation, setting Outcomes, Measurements, and Assessment Rubrics. I have attended several workshops, local and international, attended two visits made by ABET reviewers, last visit in March 2009
2. Alexandria University
An active member in the Quality Assurance Program since July 2009, contributed in two projects, the first project (QAP) completed (February 2010) and Qualified us for the second project, the CI-QAP (March 2010) whose aim is to accredit the IT (M.Sc. and Ph.D. Programs) by the National Institute for Accreditation, the last phase completed September 2016

TEACHING EXPERIENCE

1. Computer Programming with C (General Engineering)
Computer Organization (CS Program) and Computer Architecture (CE Program)

2. Advanced Programming techniques (M.Sc. Program)
Advanced Data Structures (Diploma and M.Sc. Programs)

OTHER ACTIVITIES

1. AL-Ain University, UAE
Visiting Professor at the College of Management and Technology from February 2001 to June 2001
2. Qatar University
Secondement to the Faculty of Science then to the Engineering Faculty from September 2003 to August 2009
3. Alexandria University
The Alexandria University Award for Research Promotion, 1999
4. Qatar University
Qatar University Distinction Award for Teaching Activities, 2006

RESEARCH PUBLICATIONS

1. A.A. El-Zoghabi, M.A. Ismail, S.N.T. Shen, and E.A. Korany, Learning A Three-Layer Back-Propagation Network to Recognize Different Arabic Fonts, Proceedings SPIE, Applications of Artificial Neural Networks IV, April 12 - 16, 1993, Orlando, Florida (USA)
2. A.A. El-Zoghabi, M.A. Ismail, S.N.T. Shen, and E.A. Korany, An Application Framework for Managing Procedural, Declarative, and Neural Knowledge, Proceedings of the 6th Florida Artificial Intelligence Research Symposium, April 18 - 21, 1993, Ft. Lauderdale, Florida (USA)
3. M.A. Ismail, A.M. Emam, and A.A. El-Zoghabi, Topological and Global Features for Arabic Character Recognition, 19th Annual Conference of the Association of Moslem Scientists and Engineers, October 31 - November 2, 1993, San Jose, California (USA)
4. Adel A. El-Zoghabi and Ashraf M. Emam, A Distributed Framework for Very Large Knowledge Bases, Proceedings of the 5th International Conference on Artificial Intelligence Applications (AIA97), February 26 - March 2, 1997, Cairo (EGYPT)
5. Adel A. El-Zoghabi and Ahmed M. Elfatraty, An Integrated Decision Support System for Stock Market Investment, Proceedings of the 6th International Conference on Artificial Intelligence Applications (AIA98), February 11 - 14, 1998, Cairo (Egypt)
6. Mohamed A. El-Iskandarani, Adel A. El-Zoghabi, and Alaa A.E., Fuzzy Logic: An Overview, Proceedings of the 6th International Conference on Artificial Intelligence Applications (AIA98), February 11 - 14, 1998, Cairo (Egypt)

7. Adel A. El-Zoghabi, A General Environment for Interactive Web-Based Neural Network Simulation, Alexandria Engineering Journal (AEJ), vol. 37, no. 5
8. Adel A. El-Zoghabi, An Architecture Framework for Distributed Workflow Management Systems, Alexandria Engineering Journal (AEJ), vol. 38, no. 6
9. Adel A. El-Zoghabi, Sameh E. Abdel Aziz, and Mohamed M. El-Sherbiny , An Intelligent Interface for Generating Proper SWIFT Messages, Proceedings of the 8th International Conference on Artificial Intelligence Applications (AIA2000), February 3 - 6, 2000, Cairo (Egypt)
10. Mohamed Loutfi, Alfredo Moscardini, Kevin Lawler, and Adel A. El-Zoghabi, Peak Demand Problems, Capacity Constraints and SD methodologies: The case of Hurgada Airport, Proceedings of the World Multiconference on Systems, Cybernetic and informatics , July 23-26, 2000, Orlando, Florida (USA)
11. Adel A. El-Zoghabi, Off-Line Human Signature Verification Based on Artificial Neural Networks Classifier, Proceedings of the 10th International Conference on Computer Theory and Applications, August 29-31, 2000, Alexandria (Egypt)
12. Morsi E. Morsi, Adel A. El-Zoghabi, Mohamed A. El-Gamal, and Abass A. Ezzat , An Expert System for Chemical Product Specifications: Case Study PVC Products, Proceedings of the 10th International Conference on Computer Theory and Applications, August 29-31, 2000, Alexandria (Egypt)
13. Ahmed R. Ragab, Ezzat A. Korany, and Adel A. El-Zoghabi, Applying a Case-Based Reasoning to Help Desk Applications, Proceedings of the 9th International Conference on Artificial Intelligence Applications (AIA2001), February 4 - 8, 2001, Cairo (Egypt)
14. Mohamed M. El-Sherbiny, Adel A. El-Zoghabi, and Tarek A. El-Kholy, A New Method for Web Performance Optimization, Proceedings of the 10th International Conference on Artificial Intelligence Applications (AIA2002), February 5 - 8, 2002, Cairo (Egypt)
15. Loay E. Abdul-Mageed, Adel A. El-Zoghabi, and Mohamed M. El-Sherbiny, An Agent-Based Approach for Inter-Organizational Workflow Management, Proceedings of the 12th International Conference on Computer Theory and Applications, August 27-29, 2002, Alexandria (Egypt)
16. Safeya M. Mamish, Shawkat K. Guirguis, Adel A. El-Zoghabi, and Ashraf M. Emam, An Automatically Generated Computer-Assisted Question-Answer System to Acquire Knowledge, AAAI Technical Report SS-03-07, March 2003
17. Mamish S., Guirguis S.K., El-Zoghabi A. and Emam A., Modeling a Computer Assisted Interview to Acquire Knowledge, Knowledge Management in the Era of Globalization, Proceedings of the 10th Scientific Conf., 18-20 February 2003, Cairo (Egypt)

18. Ahmed A. El-Ragal, Adel A. El-Zoghabi, Mohamed M. Abdelsalam, Implementing a Three-Tier Data Warehouse, 3rd International Conference on Electronic Business, December 9-13, 2003, Singapore
19. Mamish S., Guirguis S., El- Zoghabi A., Emam A., Applying a Smart Computer Question-Answer System to Acquire Knowledge, The 8th World Multi-conference on Systemics, Cybernetics and Informatics, July 2004, Orlando, Florida (USA)
20. Adel A. El-Zoghabi, Hesham A. Abdelhameed, and Randa M. Youssef, Performance Study of Several DBMS Connectivity using Different Server Scripting Environments, Alexandria Engineering Journal (AEJ), vol. 43, no. 5
21. Usama M. Maabed and Adel A. El-Zoghabi, Enhanced Service Oriented Architecture to Improve E-Services Applications, The 6th ACS-IEEE International Conference on Computer Systems and Applications, Doha, Qatar, March 31 - April 4, 2008
22. Usama A. Mohamed, Galal H. Galal-Edeen, and Adel A. El-Zoghabi, Building Integrated Oil and Gas B2B e-Commerce Hub Architecture Based on SOA, IC4E 2010: The 2010 International Conference on e- Education, e-Business, e-Management, 22-24 January, 2010, Sanya (China)
23. Adel A. El-Zoghabi, A New Architecture for Genetic-Based Neuro-Fuzzy Applications, JMT: Journal of Mathematics and Technology, vol. 2, no. 2
24. Usama A. Mohamed, Galal H. Galal-Edeen, and Adel A. El-Zoghabi, Building Integrated B2B e-Commerce Hub Architecture Based on SOA and Semantic Ontology, JEIM: Journal of Enterprise Information Management, vol. 23, no. 6
25. Usama M. Maabed, Ahmed M. Elfataty, and Adel A. El-Zoghabi, Towards Enhanced Service Oriented Architecture to Improve E-Services Applications, ICSS 2013, 11-13 April, 2013, Shenzhen (China)
26. Adel A. El-Zoghabi, Amr H. Yassin, and Hany H. Hussien, Survey Report on Chaos Based Public-key Cryptosystem, International Journal of Emerging Technology and Advanced Engineering, vol. 3, no. 12
27. Adel A. El-Zoghabi, Amr H. Yassin, and Hany H. Hussien, Survey Report on Cryptography Based on Neural Network, International Journal of Emerging Technology and Advanced Engineering, vol. 3, no. 12
28. Shawkat K. Guirguis, Adel A. El-Zoghabi, Mohamed A. Hassan, Lightweight Architecture for Mobile Web Content Access over Enterprise Cloud Mashup, WSCAR'2014 World Symposium on Computer Applications , 18-20 January 2014 - Sousse (Tunisia)
29. Saad Darwish, Adel A. El-Zoghabi, and Ali O. Hassen, A Modified Gait Recognition System for Human Based on Uncertainty Model, Prodeedings of the 3rd Int. Conf. on Intelligent Network and Computing (ICINC 2014), 7-8 June, 2014 - Sarawak (Malaysia)

30. Adel A. El-Zoghabi, Amr H. Yassin, and Hany H. Hussien, Public key Cryptography Based on Chaotic Neural Network, International Journal of Computer Application (IJCA), vol. 4, no. 4
31. Adel A. El-Zoghabi, Amr H. Yassin, and Hany H. Hussien, Public key Steganography Using LSB method with Chaotic Neural Network, International Journal of Computer Engineering , vol. 5, no. 8
32. Shawkat K. Guirguis, Adel A. El-Zoghabi, and Mohamed A. Hassan, A Lightweight Access for Hybrid Mobile Web Cloud Content Architecture, International Journal of Computer Science and Mobile Computing, vol. 3, no. 8
33. Saad M. Darwish, Adel A. El-Zoghabi, and Oday A. Hassen, A Modified Walk Recognition System for Human Identification Based on Uncertainty Eigen Gait , International Journal of Machine Learning and Computing, vol. 4, no. 4
34. Hesham A. Youssef, Ziad A. El-Sahn, and Adel A. El-Zoghabi, Performance of Few-mode EDFAs in Optical Space-Division Multiplexed Communication Systems, 2014 Asia Communications and Photonics Conference (ACP), 11 - 14 November 2014, Shanghai, China
35. Saad M. Darwish, Adel A. El-Zoghabi, and Marwan Hamed Hassan, Soft Computing for Database Deadlock Resolution, International Journal of Modeling and Optimization, February, 2015
36. Saad M. Darwish, Adel A. El-Zoghabi, and Mohamed Effian Abdewy, Database Encryption using Fuzzy chaotic, International Journal of Future Computing and Communication, December, 2014
37. Saad M. Darwish, Adel A. El-Zoghabi, and Doaa Ebaid, A Novel System for Document Classification Using Genetic Programming, 2015 4th International Conference on Information and Knowledge Management, 29-30 July, 2015, Shanghai, China
38. Ali H. Mohammed, Saad M. Darwish, and Adel A. El-Zoghabi, Real-time Multiple Vehicles Tracking with Occlusion Handling Through Fuzzy Cellular Automata and Visual Measurements, IJIPM (International Journal of Information Processing and Management), vol. 7, no. 2, pp. 68-82
39. Saad M. Darwish, Adel A. El-Zoghabi and Moustafa F. Ashry, An Entropic Optimization Technique In Heterogeneous Grid Computing Using Bionic Algorithms, International Journal of Computer Science and Information Technology, vol. 7, no. 6, pp. 19-37
40. Saad M. Darwish, Adel A. El-Zoghabi and Moustafa F. Ashry, Improving Fault Tolerance and Load Balancing in Heterogeneous Grid Computing using Fractal Transform, International Journal of Computer and Information Engineering, vol. 9, no. 5, pp. 820-840
41. Marwa A. Marzouk, Saad M. Darwish, and Adel A. El-Zoghabi, Fuzzy Semantic-Grid Oriented to Content Based Image Retrieval, International Journal of Digital Content Technology and its Applications, vol. 10, no. 4

42. Marwa A. Marzouk, Saad M. Darwish, and Adel A. El-Zoghabi, Improving Web Based Image Retrieval with Fuzzy Descriptors Relevance Feedback Technique, Computer Society of the Republic of China, vol. 27, no. 4
43. Saad M. Darwish, Adel A. El-Zoghabi, and Moustafa F. Ashry, Big Data Clustering Using Grid Computing and Bionic Algorithms Based an Entropic Optimization Technique, Journal of Engineering and Applied Sciences, vol. 13, no. 11, pp. 4080-4092
44. Saad M. Darwish, Adel El-Zoghabi, and Amr G. El-Shnawy, Proactive cache replacement technique for mobile networks based on genetic programming, IET Networks, vol. 7, no. 6, pp. 376 – 383
45. Usama Mahmoud Maabed, Ahmed El-Fatratry, and Adel El-Zoghabi, Enhancing Interface Understandability as a Means for Better Discovery of Web Services, International Journal of Information Technology and Web Engineering, vol. 11, no. 4, pp. 1-23
46. Adel A. El-Zoghabi, Hany H. Hussien, and Mohamed A. Hasanian, A novel combination of chaotic maps and Hopfield neural network for Naïve video encryption, International Journal of Information Processing and Management, vol. 9, no. 2, pp. 116-127
47. Mohamed Elfiky, Mohamed Azab, Magda Madbouly, Walaa Sheta and, Adel El-Zoghabi, Hybrid Security Evaluation, International Journal of Scientific and Engineering Research, vol. 9, no. 6, pp. 1134-1142
48. Mohamed Elfiky, Mohamed Azab, Magda Madbouly, Walaa M. H. Sheta, Adel A. El-Zoghabi, Hybrid Portable Security for Cloud Computing, International Journal of Advancements in Computing Technology
49. Kholoud Shata, Marwa Elteir, and Adel El-Zoghabi, Optimized implementation of OpenCL kernels on FPGAs, Journal of Systems Architecture, vol. 97, pp. 491-505
50. Hany H. Hussien, Omar M. Elssayad and Adel A. El-Zoghabi, Improving MapReduce Based k-Means Algorithm using Intelligent Technique, Asian Journal of Information Technology, vol. 18, no. 5, pp. 150-159
51. Mohamed Abbasa, Adel El-Zoghabi, and Amin Shoukry, DenMune: Density peak based clustering using mutual nearest neighbors, ELSEVIER Pattern Recognition, Available online 11 August 2020, 107589
52. Mohamed Galal, Magda M. Madbouly, Adel El-Zoghby, Classifying Arabic Text using Deep Learning, Journal of Theoretical and Applied Information Technology (JATIT), vol. 97, no. 23, pp. 3412-3422

CURRENT SUPERVISIONS (M.Sc.)

1. Communication Centrality Analysis in Dynamic Networks Applied on Twitter ,

2. Controlling Heliostat Mirror Using Intelligent Network for Renewable Energy Power Generation System ,
3. Deep Learning based Technique for Automatic Inductive Program Synthesis,
4. Cotton Warehousing Improvement for Best Bale Management System,
5. Identifying the Main Indoor Objects using Machine Learning Case Study: the IGSR Labs Building Entrance,
6. Deep Learning Based Analytic Model Leveraging Self-Health Monitoring Kafka Application For COVID-19 Real-Time Predictions,

CURRENT SUPERVISIONS (Ph.D.)

1. Improve The Quality of Software Development in The Cloud Computing ,
2. A Novel Single Parameter Dense Sparse-Grain Voting-Based Algorithm for Detecting Clusters of Arbitrary Shapes and Varying Densities in Two Dimensional Euclidean Space,
3. Improve the Quality of Visual Grounding Using Deep Learning,

GRANTED DEGREES (M.Sc.)

1. Information System for Investment Decisions in the Stock Market, 1996
2. Developing Fuzzy Expert System Environment, 1998
3. Design of Artificial Neural Network Simulation Environment, 1998
4. An Interactive Information System for Preparing a Proper SWIFT Message using Windows Facilities, 2000
5. Expert System for Control of Chemical Products Specifications Case Study: Polyvinyl Chloride Specifications, 2001
6. Intelligent Help Desk and Call Center Applications for Network End User Support Case study: Egypt Air Network, 2001
7. Performance Evaluation of the Techniques Used for Publishing Multimedia on the Internet, 2002
8. Business Process Reengineering Through Agent-Based Workflow , 2002
9. Applications of Expert Systems In Predicting Financial Crises in Business Sector, 2002
10. Design and Investigation of an Internet Based Medical Information System, 2003
11. Design of an Expert System to Measure Variables of Quality Costs: Model of Marketing Activities, 2003

12. Utilization and Performance Analysis of OLAP Technology for Decision Support, 2006
13. Implementing Security Systems for Electronic Payment Applications, 2009
14. Static Object Segmentation in 3D Range Images, 2010
15. Automated Method for Printer Identification in Forensic,
16. Simulation of Optical Amplifiers in Space-Division Multiplexed Communication Systems, 2016
17. Database encryption using Fuzzy logic, 2014
18. Fuzzy logic-Based database transaction execution deadlock handling, 2014
19. A Modified Gait Recognition System for Human Identification using Principle Component Analyses and Fuzzy Logic Theory, 2014
20. A Modified System for Document Classification Using Genetic Programming, 2016
21. Video Encryption using Combination of Chaotic Maps and Neural network,
22. Improving MapReduce Based K-means Algorithm Using Intelligent Technique,
23. A MapReduce Framework for Field-Programmable Gate Array,
24. Classify Arabic text using Deep Learning Artificial Neural Network,
25. Bio – inspired Image Denosing System based on Niching Genetic Algorithm,

GRANTED DEGREES (Ph.D.)

1. Conceptual Design of Business to Business Electronic Marketplace for the Viable Integration of Egyptian National Directives, 2010
2. Enhanced Service Oriented Architecture to Improve E-Services Applications, 2016
3. Genetic Programming Based Mobile Database Cache Management,
4. An Architecture Providing a Lightweight Mobile Web Content Access Over Enterprise Cloud Model, 2015
5. Public-Key Cryptography and Data Hiding Based on A Chaotic Neural Network Model, 2015
6. Improving Fault Tolerance and Load Balancing in Heterogeneous Grid Computing using Fractal Transform,
7. An Improved Detection and tracking Algorithm of Moving Vehicles Based on Soft Computing for Intelligent Transportation Systems, 2016
8. Fuzzy Semantic-Grid Oriented to Web Image Retrieval, 2017
9. Portable Hybrid Security as Service for Cloud Computing,

EXAMINATIONS (M.Sc.)

1. Developing an Effective and Efficient Textile Defect Recognition System Based on Interval Type-2 Fuzzy Logic, 2013
2. Secure Routing Protocols for Mobile Ad Hoc Networks, 2014
3. An Enhanced System for Data Hiding in Images, 2014
4. Database encryption using Fuzzy logic, 2014
5. Fuzzy logic-Based database transaction execution deadlock handling, 2014
6. A Modified Gait Recognition System for Human Identification using Principle Component Analyses and Fuzzy Logic Theory, 2014
7. A Modified System for Document Classification Using Genetic Programming, 2016
8. Simulation of Optical Amplifiers in Space-Division Multiplexed Communication Systems, 2016
9. Automated Method for Printer Identification in Forensic,
10. A MapReduce Framework for Field-Programmable Gate Array,
11. Video Encryption using Combination of Chaotic Maps and Neural network,
12. Implementing Flexible Migration Framework,
13. Classify Arabic text using Deep Learning Artificial Neural Network,
14. Bio – inspired Image Denosing System based on Niching Genetic Algorithm,
15. Improving MapReduce Based K-means Algorithm Using Intelligent Technique,
16. Biometric Signal Classification using Convolutional Neural Network,
17. A Clustering Approach for Web Data Mining,

EXAMINATIONS (Ph.D.)

1. Public-Key Cryptography and Data Hiding Based on A Chaotic Neural Network Model, 2015
2. An Architecture Providing a Lightweight Mobile Web Content Access Over Enterprise Cloud Model, 2015
3. An Improved Detection and tracking Algorithm of Moving Vehicles Based on Soft Computing for Intelligent Transportation Systems, 2016
4. Enhanced Service Oriented Architecture to Improve E-Services Applications, 2016
5. Fuzzy Semantic-Grid Oriented to Web Image Retrieval, 2017
6. Genetic Programming Based Mobile Database Cache Management,

7. Portable Hybrid Security as Service for Cloud Computing,
8. Improving Fault Tolerance and Load Balancing in Heterogeneous Grid Computing using Fractal Transform,