

Curriculum Vitae



Prof. El-Sayed M. El-Horbaty

Emeritus Professor of Computer Science,
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Date and Place of Birth: December 14-1952; El-Sharkia, EGYPT.

Citizenship: Egyptian.

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University Degrees:

1. Ph. D. (1985) *Dept. of Computer Science & Statistics, Faculty of Science, Queen Mary College, London University, U.K. (The Egyptian Government Scholarship).*

Title of Ph. D. Thesis:

“Combinatorial Optimization in a Parallel Computing Environment”

2. M. Sc. (1978) *Dept. of Maths. Faculty of Sci., Ain Shams Univ., EGYPT.*

Title of M. Sc. Thesis:

“On the Solution of Some Special Linear Programming Problems”.

3. B. Sc. (1974) *Dept. of Maths., Faculty of Sci., Ain Shams Univ., EGYPT.*

Employment Date:

1- Demonstrator	22/10/1974
2- Assistant Lecturer	29/01/1979
3- Lecturer	31/08/1985
4- Assistant Professor	29/04/1992
5- Professor	25/09/2000

Professional Experience:

1. **Dean of Al Wajh Colleges of Excellence** at Saudi Arabia from 9/4/2017-26/7/2017.
 2. **Deputy Head of Computer Science Department:** 1/8/2013 - 8/4/2017,
Faculty of Computer & Information Sciences, Ain Shams Univ., Cairo, EGYPT.
 3. **Head of Computer Science Department:** 2/1/2012 - end of 2012/2013,
Faculty of Computer & Information Sciences, Ain Shams Univ., Cairo, EGYPT.
 4. **Emeritus Professor** in Computer Science Department: 2012- Now,
Faculty of Computer & Information Sciences, Ain Shams Univ., Cairo, EGYPT.
 5. **Vice-Dean for Community and Environmental Affairs:** 7/3/2011 – 1/1/2012,
Faculty of Computer & Information Sciences, Ain Shams Univ., Cairo, EGYPT.
 6. **Deputy Vice-Dean for Community and Environmental Affairs:** 18/10/2019–6/3/2011, Faculty
of Computer & Information Sciences, Ain Shams Univ., Cairo, EGYPT.
 7. **Visiting Professor of Computer Science:** 1/9/2008-6/6/2009
College of Engineering and Computer Sciences, Abu Dhabi University, U.A.E.
 8. **Deputy Dean** 1/9/2002- 31/8/2008
Faculty of Information Technology, Ajman University of Science & Technology, U.A.E.
 9. **Professor of Computer Science:** September 2000 – Aug. 2002
Dept. of Comp. Science, Faculty of Science, Qatar University, Qatar.
 10. **Professor of Computer Science** in Department of Computer Science from 25/9/2000,
Faculty of Computer & Information Sciences, Ain Shams Univ., Cairo, EGYPT.
 11. **Assistant Professor** in Computer Science Department: 25/11/1996 -31/8/2000,
Dept. of Computer Science, Faculty of Computer & Information Sciences,
Ain Shams Univ., Cairo, EGYPT.
 12. **Assistant Professor** in Mathematics Department: 29/4/1992 - 24/11/1996,
Faculty of Science, Ain Shams Univ., Cairo, EGYPT.
 13. **Lecturer** in Mathematics Department: 31/8/1985 - 28/4/1992,
Faculty of Science, Ain Shams Univ., Cairo, EGYPT.
 14. **Assistant Lecturer** in Pure Mathematics Department: 29/1/1979 -30/8/1985,
Faculty of Science, Emirates University, U.A.E.
 15. **Demonstrator** in Pure Mathematics Department: 22/10/1974 - 28/1/1979,
Faculty of Science, Ain Shams Univ., Cairo, EGYPT.
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List of Publications:

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h-index: (Google) 17 Citations 1778

(Scopus) 10 Citations 242

i- Book Chapters:

- 1- Abdelfattah, A. S., Abdelkader, T., El-Horbaty, E.-S. M., “*Reliable Web Service Consumption through Mobile Cloud Computing*” (**Book Chapter**), in part of book has title “*Mobile Computing Technology and Applications*”, Edited by Mutamed Khatib, <http://dx.doi.org/10.5772/intechopen.74461>, IntechOpen, Chapter 4, 2018, pp.57-78. (**DOI: <http://dx.doi.org/10.5772/intechopen.74461>**)
- 2- Said, G.A.E., El-Horbaty, E.-S.A., “*Optimizing Solution for Storage Space Allocation Problem in Container Terminal using Genetic Algorithm*” (**Book Chapter**), in part of book has title “*Handbook of Research on Natural Computing for Optimization Problems*”, on IGI-Global’s website, Chapter 7, 2016, pp. 160-186. (**DOI: [10.4018/978-1-5225-0058-2.ch007](https://doi.org/10.4018/978-1-5225-0058-2.ch007)**)
- 3- Jasim, O.K., Abbas, S., El-Horbaty, E.-S.M., Salem, A.-B.M., “*Cryptographic Cloud Computing Environment Based on Quantum Computations*” (**Book Chapter**), *Managing Big Data in Cloud Computing Environments*, IGI-Global (ACM)-In Press, 2016, pp. 71-99. (**DOI: [10.4018/978-1-5225-8176-5.ch027](https://doi.org/10.4018/978-1-5225-8176-5.ch027)**)
- 4- Jasim, O.K., El-Horbaty, E.-S.M. Salem, A.-B. “*Ciphering of Cloud Computing Environment Based New Intelligent Quantum Service*” (**Book Chapter**), in part of book has title “*New Approaches in Intelligent Control*”, Springer publishing, Jan 2016, pp. 241-272. (**DOI:[10.1007/978-3-319-32168-4_8](https://doi.org/10.1007/978-3-319-32168-4_8)**)
- 5- Youssef, N., Mahmoud, A.M., El-Horbaty, E.-S.M. “*Gaussian De-Noising Techniques*” (**Book Chapter**), Lab Lambert Academic Publishing, Germany, Apr. 2015, pp. 1-72.

ii. Research Papers: **International Journals**

1. **A Saad, I Hegazy, ESM El-Horbaty**, “Energy Efficient Clustering-based Routing Algorithm for Internet of Things”, Bulletin of Electrical Engineering and Informatics, Vol. 12, No.6, Dec. 2023, pp. 3489-3498. (SCOPUS Q3, Sjr2022:0.299) (DOI: <https://doi.org/10.11591/eei.v12i6.5169>)
2. **SM Shehata, I Hegazy, ESM EL-Horbaty**, “Comparative Study for Android Mobile Static Analysis Algorithms”, Journal of Theoretical and Applied Information Technology, 101 (13), 2023, pp. 5161-5171. (SCOPUS Q4 Thomson Science Citation Index)
3. **I Tariq, BM El-bagory, S El-Regaily, ESM El-Horbaty**, “Analysis of ToN-IoT, UNW-NB15, and Edge-IIoT Datasets Using DL in Cybersecurity for IoT”, Applied Sciences (Switzerland), 12 (19), 9572, 2022, pp. 1-26, 2022. (SCOPUS Q1, Clarivate, impact factor 2.7, cite score 4.5) (DOI: <https://doi.org/10.3390/app12199572>)
4. **SMA Helmy, AM Amar, ESM EL-Horbaty**, “Utilization of IoT for Cardiac Surgery Patients”, Computer Science Review, Vol. 45, Aug. 2022, pp. 1-7, 100599. (SCOPUS Q1, Clarivate, Impact factor 12.9, cites core 22.4) (DOI-open access: <https://www.brightlinkresearchindex.org/journals/view/121>)
5. **DK Rizk, HM Hosny, ESM El-Horbaty, ABM Salem**, “Applying AI for Timely Input to a SMART Healthcare System”, Journal of Southwest Jiaotong University – JSJU, Vol. 57, No. 4, Aug. 2022, pp. 312-325. (SCOPUS Q2, Sjr 2022:0.22) (DOI:10.35741/issn.0258-2724.57.4.28)
6. **NNJ Siphocly, ESM El-Horbaty, ABM Salem**, “A Novel Data Representation for Music Generation with Deep Learning”, International Journal of Image Processing & Communications, Vol. 24, No. 1, 2022, pp. 49-60.(Google Scholar)
7. **MBM Mansour, T Abdelkader, MH AbdelAziz, ESM El-Horbaty** “A Trust Evaluation Scheme of Service Providers in Mobile Edge Computing”, International Journal of Electrical and Computer Engineering (IJECE), Vol. 12, No. 2, April 2022, pp. 2121-2138. (SCOPUS Q2 indexed) (Clarivate, impact factor :2.4, cites core:3.400) (DOI: <http://doi.org/10.11591/ijece.v12i2.pp2121-2138>)
8. **MBM Mansour, T Abdelkader, MH AbdelAziz, ESM El-Horbaty** “An Integrated Three-Tier Trust Management Framework in Mobile Edge Computing Using Fuzzy Logic”, Peer J Computer Science, September 2021, pp. 1-24. (SCOPUS Q1 indexed) (DOI 10. 7717/peerj-cs.700)
9. **NNJ Siphocly, ESM El-Horbaty, ABM Salem**, “Top 10 Artificial Intelligence Algorithms in Computer Music Composition”, International Journal of Computing and Digital Systems, Vol.10, No.1, Feb, 2021, pp. 373-394. (SCOPUS Q4) (DOI: 10.12785/IJCDS/100138)
10. **NNJ Siphocly, ESM El-Horbaty, ABM Salem**, “Artificial Neural Networks versus Case-Based Reasoning for Intelligent Secondary Melody Music Generation”, International Journal of Music Science, Technology and Art (IJMSTA), Music Academy “Studio Musica”, Vol.2 No.2, ISSN: 2612-2146, July 2020, pp. 8-14. (Google Scholar)
11. **D Gamal, M Alfonse, ESM El-Horbaty, ABM Salem**, “Twitter Benchmark Data-set for Arabic Sentiment Analysis”, International Journal of Modern Education and Computer Science (IJMECS), 11(1), 2019, pp. 33-38. (Impact factor: 0.669). (Sjr2022:0.3, SCOPUS Q3, citescore2022:3.6) (DOI: 10.5815/ijmecs.2019.01.04)
12. **D Gamal, M Alfonse, ESM El-Horbaty, ABM Salem**, “An Evaluation of Sentiment Analysis on Smart Entertainment and Devices Reviews”, International Journal of Information Theories and Applications (IJITA), Vol. 26, No. 2, 2019, pp. 147-164. (Indexing in: Wordcat, ROAD Directory of Open Access scholarly Resources, Google Scholar, CiteseerX, and ITHEA.)
13. **D Gamal, M Alfonse, ESM El-Horbaty, ABM Salem**, “Analysis of Machine Learning Algorithms for Opinion Mining in Different Domains”, International Journal of Machine Learning and Knowledge

Extraction, Vol. 1, Issue 1, 2019, pp. 224-234. **(Indexing: DBLP Computer science Bibliography).** **(Clarivate, impact factor:3.9, citesscore:8.5, SCOPUS Q1)** **(DOI: <https://doi.org/10.3390/make1010014>)**

14. AS Abdelfattah, T Abdelkader, ESM El-Horbaty, “Achieving Web Services Reliability in Mobile Cloud Computing”, International Journal of Mobile Network Design and Innovation, 8 (4), 2018, pp. 235-242. **(Indexing in: EBSCO, PubZone, Google Scholar, SCOPUS Q4, citesscore2022:0.7)** **(DOI:10.1504/IJMNDI.2018.095252)**
15. RM Tolba, T El-Arif., ESM El-Horbaty, “Facial Action Coding System for the Tongue”, International Journal of Computers, ISSN: 1998-4308, Vol. 12, March 2018, pp. 9- 14. **(Google Scholar)****(DOI: 10.5281/zenodo.4321208)**
16. MA Arasi, ESA El-Dahshsn, ESM El-Horbaty, ABM Salem, “Malignant Melanoma Diagnosis Using Intelligence Approaches”, International Journal of Bio-Medical Informatics and e-Health (IJBMieH), Vol. 05, Issue 05, (August-September) 2017, pp. 15-26. **(Google Scholar)**
17. H Mohsen, ESA El-Dahshsn, ESM El-Horbaty, ABM Salem, “Intelligent Methodology for Brain Tumors Classification in Magnetic Resonance Images”, International Journal of Computers, Vol. 11, 2017, pp. 1-5. **(Google Scholar)**
18. H Mohsen, ESA El-Dahshsn, ESM El-Horbaty, ABM Salem, “Brain Tumor Type Classification Based on Support Vector Machine in Magnetic Resonance Images”, Annals Of "Dunarea De Jos" University of Galati, Mathematics, Physics, Theoretical Machines, Fascicle II, Year IX (XL) 2017, No 1, pp. 75-88. **(Google Scholar)**
19. N Youssef AM. Mahmoud, ESM El-Horbaty, “A Parallel Hybrid Technique for Multi-Noise Removal from Grayscale Medical Images”, IOSR Journal of Computer Engineering (IOSR-JCE), e-ISSN: 2278-0661, p-ISSN: 2278-8727, Vol. 18, Issue 5, Ver. V (Sep. – Oct. 2016), pp. 121-128. **(Clarivate Q1, Impact factor:3.712)** **(<https://DOI: org/10.48550/arXiv.2005.05371>)**
20. MA Arasi, ESA El-Dahshsn, ESM El-Horbaty, ABM Salem, “Intelligent Methodologies for Melanoma Diagnosis”, International Journal of Current Trends in Engineering & Technology, Vol. 2, Issue 5, 2016, pp. 429-435. **(Google Scholar)**
21. N Youssef, AM Mahmoud, ESM El-Horbaty, “A Hybrid De-Nosing Technique for Multi-Noise Removal on Gray Scale Medical Images”, International Journal of Tomography and Simulation, Vol. 28, No. 2, 2015, pp. 106-116. **(SCOPUS Q4)**
22. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “Innovative Method for Enhancing Key Generation and Management in the AES-Algorithm”, International Journal of Computer Network and Information Security (IJCNIS), 4, 2015, pp. 14-20. **(SCOPUS Q3)** **(DOI:10.5815/ijcnis.2015.04.02)**
23. A Taha, HH Zayed, ME Khalifa, ESM El-Horbaty, “Skeleton-Based Human Activity Recognition for Video Surveillance”, International Journal of Scientific & Engineering Research, Vol. 6, Issue 1, Jan. 2015, pp. 993-1004. **(Impact factor 4.9, Google Scholar)** **(DOI:10.14299/IJSER.2015.01.024)**
24. GAENA Said, ESM El-Horbaty, “An Integrated Approach for Optimization of Resource Utilization at Seaports”, International Journal of Computer Science Issues (IJCSI), Vol.12, Issue 2, March 2015, pp. 307-312. **(SCOPUS Q3)**
25. MH Eawna, SH Mohammed, ESM El-Horbaty, “Resources Provisioning in Single tier and Multi-Tier Cloud Computing: “State-of-Art”, (IJACSA) International . Journal of Advanced Computer Science and Applications, Vol. 6, No. 2, 2015, pp. 213-217. **(SCOPUS Q3)** **(DOI: 10.14569/IJACSA.2015.060231)**
26. GAENA Said, AM Mahmoud, ESM El-Horbaty, “Simulation and Optimization of Container Terminal Operations: A Cases Study”, International Journal of Computer Science Engineering and Information Technology Research (IJCEITR), Vol.4, Issue 4, Aug. 2014, pp. 85-94. **(Google Scholar)**

27. TZ Mohammad, AM Mahmoud, ESM El-Horbaty, MI Roushdy, ABM Salem, “*Teaching the slow learner students with and without e-learning environment*”, International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Vol. 3, Issue 4, July-August 2014, pp.128-133. **(Google Scholar)**
28. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “*Cryptographic Cloud Computing Environment as a More Trusted Communication Environment*”, International Journal of Grid and High-Performance Computing, Vol. 6, Issue 2, 1April 2014, pp. 38-51. **(SCOPUS Q3) (DOI: 10.4018/ijghpc.2014040103)**
29. A Taha, HH Zayed, ME Khalifa, ESM El-Horbaty, “*Exploring Behavior Analysis in Video Surveillance Applications*”, International Journal of Computer Applications (0975-8887), Vol. 93, No. 14, May 2014, pp. 22-32. **(SCOPUS Q4) (DOI:10.5120/16283-6045)**
30. GAENA Said, AM Mahmoud, ESM El-Horbaty, “*Solving Container Terminals Problems using Computer-Based Modeling*”, International Journal of Computer Science and Engineering (IJCSE), Vol.3, Issue 3, May 2014, pp. 91-100. **(SCOPUS) (DOI: https://doi.org/10.48550/arXiv.1407.6384).**
31. A Taha, HH Zayed, ME Khalifa, ESM El-Horbaty, “*Human Action Recognition based on MSVM and Depth Images*”, IJCSI International Journal of Computer Science issues, Vol. 11, Issue 4, No. 2, July 2014, pp. 42-51. **(SCOPUS Q3)**
32. TZ Mohammad, AM Mahmoud, ESM El-Horbaty, MI Roushdy, ABM Salem, “*An Intelligent Educational Data Mining Classification Model for Teaching English for Slow Learner Students*”, IPASJ International Journal of Computer Science (IJCS), Vol. 2, Issue 8, Aug. 2014, pp. 6-15. **(SCOPUS Q3)**
33. N Youssef, AM Mahmoud, ESM El-Horbaty, “*Gaussian De-Nosing Techniques in Spatial Domain for Gray Scale Medical Images*”, International Journal” Information Technologies & Knowledge”, Vol. 8, No. 3, 2014, pp. 290-299. **(Clarivate)**
34. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “*Advent of Cloud Computing Technologies in Health Informatics*”, International Journal “Information Theories and Applications”, Vol. 21, No. 1, 2014, pp. 31-39. **(Clarivate)**
35. GAENA Said, AM Mahmoud, ESM El-Horbaty, “*A Comparative Study of Meta-Heuristic Algorithms for Solving Quadratic Assignment Problem*”, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol.5, No.1, 2014, pp. 1-6. **(SCOPUS Q3) (DOI: https://doi.org/10.48550/arXiv.1407.4863)**
36. TZ Mohammad, AM Mahmoud, ESM El-Horbaty, MI Roushdy, ABM Salem, “*E-learning Strategy in Ministry of Education in Kuwait’s*”, International Journal of Advanced Science and Engineering Technology, ISSN: 2225-9686, Vol. 4, No. 1, 2014, pp. 366-372. **(SCOPUS Q3)**
37. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “*Efficiency of Modern Encryption Algorithms in Cloud Computing*”, International Journal of Emerging Trends of Technology in Computer Science (IJETTCS), Vol. 2, Issue 6, 2013, pp. 270-274. **(Google Scholar)**
38. MA Ahmed, HM Ebied, ESM El-Horbaty, ABM Salem, “*Analysis of Palm Vein Pattern Recognition Algorithms and Systems*”, International Journal of Bio-Medical Informatics and e-Health, Vol. 1, No.1, June-July 2013, pp. 10-14. **(Clarivate)**
39. D Elsayed, A Khalifa, ME Khalifa, ESM El-Horbaty, “*hiCLUMP: A hybrid Implementation of the CLUMP Algorithm for Clustering Microarrays Data*”, International Journal of Bio-Medical Informatics and e-Health, Vol. 1, No. 1, June-July 2013, pp. 1-9. **(Clarivate)**
40. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “*Cloud Computing Cryptography*” State-of the Art”, World Academy of Science, Engineering and Technology 80 2013, pp. 463-466. **(SCOPUS Q4)**

41. NNJ Sophoclis, M Abdeen, ESM El-Horbaty, "GPU-Accelerated Light Stemmer for the Arabic Language", Journal of Computer Science and Applications, Vol. 4, No. 2, 2012, pp. 105-118. (SCOPUS Q4)
42. HF Kendela, MA Al-Ahmar, ESM El-Horbaty, "New Traveling Salesman Problem Approximation Algorithm" International Review on Computers and Software (I.RE. CO. S), Vol.2, No. 4, July 2007, pp. 325-330. (SCOPUS)
43. IA Ismail, ESM El-Horbaty, MA Alshabrawy, "Auto regressive filter algorithm for sifting digital images", International Journal of Computers and their Applications (IJCA), Vol. 9, No. 4, Dec. 2002, pp. 200-204. (SCOPUS Q2)
44. IA Ismail, ESM El-Horbaty, AM Abd El-Salam, "An algorithm for generating 3D Fourier descriptors from 2D body pictures and its Reverse", International. Journal of Computers and their Applications (IJCA), Vol.7, No. 2, June 2000, pp. 69-74. (SCOPUS Q2)
45. AEDH Mohamed, ESM El-Horbaty, "On an acquisition model for the automatic construction of the Arabic lexicon", International Journal of Computers and their Applications (IJCA), Vol.7, No. 2, June 2000, pp. 75-82. (SCOPUS Q2)
46. ABM Salem, ESM El-Horbaty, "Characteristics of AI-based parallel computer systems", Jour. Inst. Math. & Comp. Sciences. (Comp. Sc. Ser.), Vol. 9, No. 1, 1998, pp. 19 - 23. (Google Scholar)
47. AEM El-Misiery, ESM El-Horbaty, "An algorithm for calculating Jones polynomials", Applied Mathematics and Computation, Vol.74, Issue 2-3, 1996, pp. 249-259. (SCOPUS Q2)
48. ESM El-Horbaty, AEDH Mohamed, "A synchronous algorithm for shortest paths on a tree machine", Parallel Computing, 18, 1992, pp. 103-107. (SCOPUS Q2) ([https://doi.org/10.1016/0167-8191\(92\)90115-N](https://doi.org/10.1016/0167-8191(92)90115-N))
49. ESM El-Horbaty, E Ahmed, "Multiphase percolation and Josephson model for high temperature superconductivity", International Journal of Theoretical Physics, Vol. 31, Issue 6, 1992, pp. 995 - 1001.(SCOPUS Q1) (DOI: <https://doi:10.1007/BF00675090>)
50. ESM El-Horbaty, "Sorting on a perfect shuffle computer", Jour. Inst. Maths. & Comp. Sc. (Comp. Sc. Series), Vol. 1, No. 1, 1990, pp. 31-35. (Google Scholar)
51. ESM El-Horbaty, "A Successive parallel shortest path algorithm for the assignment problem", Jour. Inst. Maths. & Comp. Sc. (Comp. Sc. Series), Vol. 1, No. 1, 1990, pp. 1-6.(Google Scholar)
52. AM Frieze, J Yadegar, ESM El-Horbaty, D Parkinson, "Algorithms for assignment problems on an array processor ", Parallel Computing, Vol. 11, 1989, pp. 151-162. (SCOPUS Q2) ([https://doi.org/10.1016/0167-8191\(89\)90025-2](https://doi.org/10.1016/0167-8191(89)90025-2))
53. EM El-Horbaty, "An efficient parallel version of the primal- simplex algorithm for minimum cost flow problems", Jour. Inst. Math. & Comp. Sci. (Math. Ser.), Vol. 2, No. 2, 1989, pp. 221-229. (Google Scholar)

International Conferences

54. IF Ibrahim, MM Morsey, AM Mahmoud, ESM El-Horbaty, "Towards Developing a Metaverse Authentication Model for Mobile Features", International Conference on Enterprise Information Systems, ICEIS -Proceedings, 2023, 1, pp. 691-691. (SCOPUS)
55. A Iskandar, M Alfonse, M Roushdy, ESM El-Horbaty, "Shallow and Deep Learning in Footstep Recognition: A Survey", 5th International Conference on Computing and Informatics, ICCI 2022, 2022, pp. 364-368. (SCOPUS) (DOI:[10.1109/ICCI54321.2022.9756118](https://doi.org/10.1109/ICCI54321.2022.9756118))

56. DK Rizk, HM Hosny, ESM El-Horbaty, ABM Salem, “*A Survey Study and Analysis of Task Scheduling Approaches for the Major Computing Environments*”, International Conference on Web Information Systems and Technologies, WEBIST - Proceedings, 2021, 2021-October, pp. 412-421. (SCOPUS, Clarivate) (DOI: 10.5220/0010711300003058)
57. DK Rizk, HM Hosny, ESM El-Horbaty, ABM Salem, “*A Study on Cloud Computing Architectures for Smart Healthcare Services*”, CEUR Workshop Proceedings of the 3rd International Conference on Informatics & Data-Driven Medicine, Växjö, Sweden, November 19 - 21, 2020, pp: 302-310. (SCOPUS)
58. ABM Salem, DK Rizk, HM Hosny, ESM El-Horbaty, “*Smart Healthcare Services: Technologies, Opportunities, and Challenges*”, Proceedings of VII-th International Scientific and Practical video conference, Digital Ecosystems of the economy Southern Federal University, 2020, pp. 467-473, ISBN: 978-5-9275-3591-0. (Indexed in Russian Science Citation index)
59. AAS Farag, SA Mohamed, ESM El-Horbaty, “*Swarm Optimization for Solving Load Balancing in Cloud Computing*”, Advances in Intelligent Systems and Computing, Vol 921, 2020, pp. 102-113. (4th International Conferences on Advanced Machine Learning Technologies and Applications, AMLTA 2019, Cairo, Egypt; 28 March 2019 through 30 March 2019, Code 224599). (DOI:10.1007/978-3-030-14118-9_11)
60. MA Arasi, ESA El-Dahshsn, ESM El-Horbaty, ABM Salem, “*Classification of Dermoscopy Images Using Naïve Bayesian and Decision Tree Techniques*”, Proceedings-2018 1st Annual International Conference on Information and Sciences, AiCIS 2018, 12 February 2019, Article number 8640946, pp. 7-12. (1st Annual International Conference on Information and Sciences, AiCIS 2018; Fallujah; Iraq; 20-21 November 2018; Category number E6553; Code 145104). (SCOPUS) (DOI:10.1109/AiCIS.2018.00015)
61. D Gamal, M Alfonse, ESM El-Horbaty, ABM Salem, “*Implementation of Machine Learning in Arabic Sentiment Analysis using N-gram Features*”, 9th International Congress of Information and Communication Technology (ICICT-2019), Procedia Computer Science Journal, 154, 2019, pp. 332-340, (Indexing in: SCOPUS, Elsevier. Impact factor: 1.08). (DOI:https://doi.org/10.1016/j.procs.2019.06.048)
62. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “*Securing Cloud Computing Environment Using a New Trend of Cryptography*”, 2015 International Conference on Cloud Computing, ICCC 2015, 2 July 2015, Article number 7149654. (1st International Conference on Cloud Computing, ICCC 2015; Riyadh; Saudi Arabia; 26 April 2015 through 29 April 2015; Category number CFP15CLD-PRT; Code 113650). (SCOPUS) (DOI: 10.1109/CLOUDCOMP.2015.7149654)
63. GAENA Said, ESM El-Horbaty, “*An Optimization Methodology for Container Handling Using Genetic Algorithm*”, (Open Access), Procedia Computer Science (Elsevier), Vol. 65, 2015, pp. 662-671. (International Conference on Communications, Management, and Information Technology, ICCMIT 2015; Prague; Czech Republic; 20 April 2015 through 22 April 2015; Code 116706). (Elsevier) (DOI:https://doi.org/10.1016/j.procs.2015.09.010)
64. MH Eawna, SH Mohammed, ESM El-Horbaty, “*Hybrid Algorithm for Resource Provisioning of Multi-Tier Cloud Computing*”, (Open Access), Procedia Computer Science (Elsevier), Vol. 65, 2015, pp. 682-690. (International Conference on Communications, Management, and Information Technology, ICCMIT 2015; Prague; Czech Republic; 20 April 2015 through 22 April 2015; Code 116706). (SCOPUS, Elsevier) (DOI: https://doi.org/10.1016/j.procs.2015.09.012)
65. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “*Quantum Key Distribution: Simulation and Characterizations*”, Procedia Computer Science (Elsevier), Vol. 56, 2015, pp. 701-710. (International Conference on Communications, Management, and Information Technology, ICCMIT 2015; Prague; Czech Republic; 20 April 2015 through 22 April 2015; Code 116706). (SCOPUS, Elsevier) (DOI: https://doi.org/10.1016/j.procs.2015.09.014)

66. A Taha, HH Zayed, ME Khalifa, ESM El-Horbaty, “*Human Activity Recognition for Surveillance Applications*”, Proceedings of the 7th International Conference on Information Technology, ICIT’15, Al-Zaytoonah University, (in Jordan), May, 2015, pp. 577-58. **(Google Scholar)** **(DOI:10.15849/icit.2015.0103)**
67. OK Jasim, S Abbas, ESM El-Horbaty, ABM Salem, “*Advanced Encryption Standard Development Based Quantum key Distribution*”, 2014 9th International Conference for Internet Technology and Secured Transactions, ICITST 2014; 2014, Article number 7038845, pp. 402-408. (*XIII International Conference on Computer and Information Systems (ICCIS- 2015) Jan. 19-20, 2015, London, UK.*). **(SCOPUS)** **(DOI:10.1109/ICITST.2014.7038845)**
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69. TZ Mohammad AM Mahmoud, ESM El-Horbaty, MI Roushdy, ABM Salem, *Classification Model of English Course e-Learning System for Slow Learners*”, The 7th WSEAS European Computing Conference (ECC’13), Dubrovnik, Croatia, June 25-27, 2013. *Recent Advanced in Information Sciences*, 2013, pp. 83-88. **(SCOPUS)**
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2. **GH Abdel Reheem, NA Fanoos, ESM EL-Horbaty**,” *The Impact of The Digital Institutional Communication Strategy on Raising the Efficiency of The Information Environment for The Using of The State’S Administrative Apparatus A Field Study on The Central Agency for Organization and Administrative*”, Journal of Environmental Science, Vol.51, issue 4, Apr. 2022, pp.105-137. **(EKB) (DOI: 10.21608/IJICIS.2022.139226.1182)**
3. **MI El-Emam, EA Hashim, ESM EL-Horbaty, NM Aronous**, “Impact of Employing Digital Economic Applications in Developing Administrative Performance of Sector of Ministry of Supply and Internal Trade”, Journal of Environmental Science, Vol.51, issue 7, Jul. 2022, pp.331-370. **(EKB) (DOI: 10.21608/IJICIS.2021.82144.1107)**
4. **SMA Helmy, AM Amar, ESM EL-Horbaty**,” *Internet of Things (IoT) based smart device for Cardiac Patient Monitoring Using Blynk App.*”, International Journal of Intelligent Computing and Information Sciences (IJICIS), 2022, pp. 86-99, **(EKB) (doi: 10.21608/ IJICIS. 2022. 139226. 1182)**
5. **DK Rizk, HM Hosny, ESM El-Horbaty, ABM Salem** “*SMART Hospital Management Systems Based on Internet of Things: Challenges, Intelligent Solutions and Functional Requirements*”, International Journal of Intelligent Computing and Information Sciences – (IJICIS}, Vol. 22, issue 1, Feb. 2022, pp. 32-43. **(EKB) (DOI: 10.21608/IJICIS.2021.62820.1060)**
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14. RM Tolba, T El-Arif, ESM El-Horbaty, “*Realistic Facial Animation Review: Based on Facial Action Coding System*”, Egyptian Computer Science Journal (ECSJ), Vol 42, No. 1, Jan. 20
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Supervisor on M.Sc. and Ph.D. Theses

i. M.Sc. Theses

1. **Dina Mohamed Elsayad**, “*Microarrays Data Analysis of Cancer Disease on a Cluster of Computers*”, Dept. of Scientific Computing, Faculty of Computer & Information Sciences, Ain Shams University, Dec. 2013.
2. **Nermine N. Jean**, “*A Distributed Indexing Algorithm for Arabic Search Engines*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jul. 2013.
3. **Mamdouh Mohamed Ahmed Abo Raia**, “*A proposed model for environmental management of e-waste (A case study of educational departments in Cairo)*”, Dept. of Environmental Economic, Legal, and Administrative Sciences. Institute for Environmental Studies and Research, Ain Shams University, Mar. 2013.
4. **Bahamas Ali Maher Mohamed**, “*Data Mining Techniques in Gene Expression*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Dec. 2014.
5. **Mona Abdel Aziz Ahmed**, “*Intelligent Algorithms for Personal Authentication using Palm Vein*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jun 2015.
6. **Nora Yousef Fahmy Abd El-Majeed Youssef**, “*Parallel Processing for Digital Image Enhancement*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Nov. 2015.
7. **Marwa Hashim Abdulameer**, “*Optimizing Dynamic Provisioning of Resources in Multi-tier Cloud Computing*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Mar. 2016.
8. **Amr El-Sayed Mohamed Abdelfattah**, “*Reliable Web Services through Mobile Cloud Computing*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jan. 2017.
9. **Salma Khaled Saad Elbay**, “*Developing a Live Migration Aware Power Saving Algorithm in Cloud Computing*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jan. 2019.
10. **Donia Gamal El-dine**, “*Opinion Mining Using Machine Learning Techniques*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jan. 2019.
11. **Rahma Mohsen Ragab Tolba**, “*Facial Animation Analysis*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jul. 2018.
12. **Aya Ahmed Salah El-Din Farrag**, “*A Swarm Intelligent Algorithm for Optimizing Cloud Computing*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Apr. 2019.
13. **Walaa Mohamed Moghawry Ismail**, “*The Role of Green Technology in Achieving Competitive Advanced in Egypt: A field Study on Public Business Sector*”, Dept. of Environmental Economic, Legal, and Administrative Sciences. Faculty of Environmental Studies and Research, Ain Shams University, May 2022.
14. **Manar Gamal El-Den Hafez**, “*The Effect of Using Information Technology on the Green Human*”

Resources Performance”, Dept. of Environmental Economic, Legal, and Administrative Sciences. Faculty of Environmental Studies and Research, Ain Shams University, Jun 2022.

15. **Mohamed Ahmed Afifi**, “*A Proposed Framework for activating the Role of Crisis Management Using Electronic Control*”, Dept. of Environmental Economic, Legal, and Administrative Sciences. Faculty of Environmental Studies and Research, Ain Shams University, Oct. 2022.
16. **Mohammed Ibrahim El-Sayed Emam**, “*Impact of employing Digital Applications in Developing Administrative Performance of Ministry of Supply and Internal Trade*”, Dept. of Environmental Economic, Legal, and Administrative Sciences. Faculty of Environmental Studies and Research, Ain Shams University, Jan. 2023.
17. **Salma Mostafa Ahmed Helmy**, “*Usage of IoT for Cardiac Surgery Patients*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University,”Jun. 2023.
18. **Aya Saad Mohammed**, “*Bio-inspired Energy Efficient Routing Algorithm for Internet of Things*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jul. 2023.
19. **Sara M. Shehata**, “*Cloud Antivirus for Mobiles*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, In Progress.
20. **Amr Ashraf Amin**, “*Protecting Mobile Applications against Repackaging Attacks*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, In Progress.
21. **Ayman Adel Moner Iskandar**, “*Intelligent Algorithms for Footstep Recognition*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University,” In Progress.
22. **Yusuf Mamdouh Awad Mohamed**, “*Energy Efficiency Techniques for Mobile Using Machine Learning*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, In Progress.
23. **Ezzat Mohamed Ahmed Mohamed**, “*The Role of Electronic Marketing in Sustainable Financial Development for Public Business Sector Companies: An Applied Study on Textile Companies*”, Dept. of Environmental Economic, Legal, and Administrative Sciences. Faculty of Environmental Studies and Research, Ain Shams University, In Progress.
24. **Amr Mohamed Abdelrahman Kmal El-Sharqawy**, “*The Impact of Legislative Protection on Cybersecurity in Achieving Egypt’s Vision 2030 (An Applied Study on Information Security)*”, Dept. of Environmental Economic, Legal, and Administrative Sciences, Faculty of Environmental Studies and Research, Ain Shams University, In Progress.

ii. Ph.D. Theses

1. **Zkaa Zaky Mohamed**, “*Application of Data Mining Methodology in e-Learning Systems*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Dec. 2014.
2. **Omer K. Jasim**, “*Development Cloud Computing Security Algorithms Using Quantum Cryptography Criteria*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Nov. 2015.
3. **Ahmed Taha Abdel Fatah**, “*Behavior Analysis in Surveillance Systems*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jul. 2015.
4. **Gamal A. Said**, “*Optimizing Solution for Container Terminals at Seaport Using Intelligent*

- Techniques*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, May 2016.
5. **Heba Mohsen Mohamed**, “*Intelligent Machine Learning Algorithms for Processing the Brain Images*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Mar. 2018.
 6. **Munya Abdel-Megeed Abd-Allah**, “*Diagnosis of Skin Cancer Using Machine Learning Techniques*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, May 2018.
 7. **Nermine N. Jean Siphocly**, “*Computational Intelligence Techniques in Music Composition*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jul. 2021.
 8. **Merrihan Badr Monir Mandour**, “*Trust Management Algorithms for Mobile Edge Computing*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Jan. 2022.
 9. **Dalia Kamal Abd Alla Rizk**, “*A Cloud Computing-Based Reference Architecture for Smart HealthCare Services*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, Apr. 2023.
 10. **Ghada Hamdy Abd Elrahim Aly**, “*The Impact of the Digital Corporate Communication on Upgrading the government services (A Comparative Study)*”, Dept. of Environmental Economic, Legal, and Administrative Science, Faculty of Environmental Studies and Research, Ain Shams University, Nov. 2022.
 11. **Salma Mohamed Osama El-Gayar**, “*Enhancement of Deep Learning Algorithms in Medical Images*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, In Progress.
 12. **Imad Tareq Allawi Al-Halboosi**, ” *Developing Artificial Intelligence Algorithms for Cybersecurity*”, Dept. of Computer Science, Faculty of Computer & Information Sciences, Ain Shams University, In Progress.
 13. **Waleed Abdallah Naji Mohamed**, “*Resource Management Optimization for Fog-Cloud Computing*”, Dept. of Computer Science, Faculty of Computer and Information Science, In Progress.
 14. **Walaa Mohamed Moghawry Ismail**, “*The Role of Government Digital Transformation in Achieving Environmental and Economic Subtustainability (A Comparative Study)*”, Dept. of Environmental Economic, Legal, and Administrative Sciences, Faculty of Environmental Studies and Research, Ain Shams University, In Progress.
 15. **Manar Gamal El-Den Hafez**, “*The Role of Digital Transformation as a Mediating Variable in the Relationship Between Artificial Intelligence and Administrative Environmental Systems (An Applied Study on Ain Shams Specialized Hospital)*”, Dept. of Environmental Economic, Legal, and Administrative Sciences, Faculty of Environmental Studies and Research, Ain Shams University. In Progress.
 16. **Ahmed Hafiz Abdelfattah Mohamed**, “*The Impact of the Real Estate Coding System on Achieving Environmental Sustainability (An Applied Study of the Real Estate Tax Authority)*”, Dept. of Environmental Economic, Legal, and Administrative Sciences, Faculty of Environmental Studies and Research, Ain Shams University, In Progress.

Research Interests:

1. Parallel and Distributed Computing, Cloud Computing, Mobile Cloud Computing, IoT, and E-Health Computing.
2. Analysis and Design of computer algorithms
3. Optimization of computing algorithms

Postgraduate Courses Taught:

- Parallel Algorithms
- How to Write a Scientific Paper
- Distributed Computing
- Mobile Computing

Reviewed Papers for Publication in

- Journal of King Saud University-Computer and Information Sciences
- International Journal of Physical Sciences
 - African Journal of Mathematics and Computer Science (AJMCSR)
 - Egyptian Computer Science (ECS) Journal
 - International Journal of Computer Engineering Research (IJCER)
 - Journal of King Saud University (JKSU)
 - International Journal of Intelligent Computing and Information Sciences
 - International Journal of Mathematics and Computer Science
 - MASAUM Journal of Computer Science (MJCS)
 - International Journals on Computer Sciences.
 - Journal of Computing and Applications (JCA)
 - Qatar University, Science Journal.

Editorial Board of

- International Journal of Intelligent Computing and Information Sciences 2009- 2012.
- International Journal on Advances in Life Sciences
- Journal of Global Research in Computer Science
- Journal of Trends in Computer Science and Smart Technology
- Egyptian Computer Science Journal

Conferences:

- The 12th Congress for Statistics, Computer Science, Social and Demographic Research, Scientific Comp. Center, Ain Shams University, Cairo, Egypt, 28 March-2 April,1987.
- International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA '2000; June 25-29, 2000, Monte Carlo Resort, Las Vegas, Nevada, USA.
- International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA '2001; June 25-28, 2001, Monte Carlo Resort, Las Vegas, Nevada, USA.
- The 5th International Conference on Intelligent Computing and Information Systems (ICICIS 2011) Cairo, Egypt, 30 June – 3 July, 2011,
- The 6th International Conference on Information Technology (ICIT 2013), May 8-10, 2013, Al-Zaytoonah University, Jordan.
- The 6th Int. Conference on Intelligent Computing and Information Systems (ICICIS 2013) Cairo, Egypt, 14 - 16 December, 2013

- The 9th International Conference for Internet Technology and Secured Transactions (ICITST 2014), Jan 19-20, 2015, London UK.
- The 7th International Conference on Information Technology (ICIT 2015), May 12-15, 2015, Al-Zaytoonah University, Jordan.
- IEEE 7th International Conference on Intelligent Computing and Information Systems (ICICIS 2015), Cairo, Egypt, 12-14 December, 2015.
- IEEE 8th International Conference on Intelligent Computing and Information Systems (ICICIS 2017) Cairo, Egypt, 5 - 6 December, 2017.
- IEEE 9th International Conference on Intelligent Computing and Information Systems (ICICIS 2019) Cairo, Egypt, 8 - 10, December, 2019.
- IEEE 10th International Conference on Intelligent Computing and Information Systems (ICICIS 2021) Cairo, Egypt, 5 - 6, December, 2021.
- IEEE 11th International Conference on Intelligent Computing and Information Systems (ICICIS 2023) Cairo, Egypt, 21 - 22, Nov. 2023.
- المؤتمر السنوى الدولى السادس والخمسون لعلوم البيانات لكلية الدراسات العليا للبحوث الإحصائية بجامعة القاهرة خلال الفترة 2023/12/4 إلى 2023/12/6.

University Committees and Social Services:

- Vice-Chairman of the Board of Directors of Information Technology Research & Consultancy Center
- A member of organizing committee of The Fourth International Conference on eHealth, Telemedicine, and Social Medicine (eTELEMED 2012), January 30- February 4, 2012- Valencia, Spain.
- A member of organizing committee of the 5th International Conference on Information Technology (ICIT'11), Al-Zaytoonah University, May 11-13, 2011, Amman, Jordan.
- A member of organizing committee of The Third International Conference on eHealth, Telemedicine, and Social Medicine (eTELEMED 2011), Feb. 23-28, 2011- Gosier, Guadeloupe, France
- Vice-Dean for Community & Environmental Affairs, Faculty of Computer & Information Sciences, Ain Shams University, from 18/10/2009-Now
- A member of organizing committee of International Conference IMCL (Interactive Mobile and Computer Aided Learning) Amman-Jordan 19-21 April 2006.
- A member of organizing committee of the 1st Inter. Conf. On Intelligent Computing and Information Systems, (ICICIS 2002), Ain Shams University, Faculty of Computer & Information Sciences, Cairo, Egypt, June 24-26, 2002.
- A member of a committee that prepare the 6th and 7th Inter. Conf. On Artificial Intelligence Applications, Cairo, EGYPT, 1998-1999.
- A supervisor of summer practical training for student of faculty of Computer & Information Sciences, Ain Shams University, EGYPT, 1997-1998.
- A member of establishment team for computer science in Ain Shams University, EGYPT, 1995-1996.
- A member of a committee that development courses of computer science in U.A.E University, 1992.
- A member of a committee that put the new plan of computer science in U.A.E. University, 1990-1994.
- A member of a time table committee in dept. of Maths. & Comp. Scie. in U.A.E. University, 1993-1994.

- A member of a boxes and library committee in dept. of Maths. & Comp. Scie. in U.A.E. University, 1991-1992.
- A supervisor of summer practical training for student of Computer Science in U.A.E. University, 1990.
- A lecturer in several training sessions, such as:
- Introduction to computer science (American University, Cairo), EGYPT, 1987.

Examiner of Ph.D and M. Sc. Theses

External Examiner for M.Sc. Degree

1. **Reda Mohamed Mohamed Ghanem**, “*Improve Face Synthesis Based on Deep Learning*”, in Computer Science, Dept. of Mathematics, Faculty of Science, **Banha University**, Mar. 2021.
2. **Noha Abd-Elkereem Eldemerdash Ahmed**, “*Real-Time Text Reading for Blind People*”, Dept. of Computer Science, Faculty of Computers and Artificial Intelligence, **Banha University**, Mar. 2021
3. **Raghda Mohamed Khaled**, “*Improve Multi-agent System with Ontology in HCI Human Computer Interaction*”, in Computer Science, Dept. of Mathematics, Faculty of Science (Girls), **Al-Azhar University**, Jan. 2020.
4. **Mohamed Abd-Elrazek El-Sayed Ibrahim**, “*Study of Various Image Compression Techniques*”, in Computer science, Dept. of Mathematics, Faculty of Science, **Zagazig University**, Dec. 2019.
5. **Ahmed Yousry Abdelsatar Zaloak**, “*Enhancing Mobile Assistive Technologies for Visually Impaired People*”, Dept. of Computer Science, Faculty of Computers and Informatics, **Banha University**, Jul. 2019.
6. **Tamara Afif Mujeed Anani**, “*Metaheuristic Algorithms for solving Some Optimization Problems*”, in Computer science, Dept. of Mathematics, Faculty of Science, **Zagazig University**, Nov. 2016.
7. **Mohamed Soliman El-Komy**, “*On Some Solution by Using Optimization Model for Laplacian Mesh*”, Dept. of Computer Science, Faculty of Computers and Informatics, **Suez Canal University**, 2016.
8. **Gada Dahy Fathy Kamel**, “*Improving the Recognition of Facial Expressions in Sign Language*”, Dept. of Computer Science, Faculty of Computers and Information, **Cairo University**, 2016.
9. **Shimaa Muhammad Tawfik Abdel Wahab**, “*Automated Test Evaluation Techniques for E-Learning*”, in Computer Science, Dept. of Mathematics, Faculty of Science (Girls), **Al-Azhar University**, 2013.
10. **Israa Ismail Abdel Hady**, “*Development of a Computer Vision Model for Human Identification by Using DNA Fingerprint*”, Dept. of Computer Science, Faculty of Computers and Informatics, **Suez Canal University**, 2013.
11. **Marwa Fikry Mohamed Abdulla**, “*Developing an Adaptive Replica-Based Framework for Web Services*”, Dept. of Computer Science, Faculty of Computers and Informatics, **Suez Canal University**, 2013.
12. **Ahmed Nour Eldeen Bayoumi**, “*Methods and Tools for Building a Data Warehouse to Support Healthcare Decision Making*”, in Computer science, Dept. of Mathematics, Faculty of Science, **Zagazig University**, 2013.
13. **Dina Mohamed Rashad Omar**, “*Boundary Detection and Optimal Converge for Free Location and Heterogeneous Wireless Sensor Networks*”, in Computer science, Dept. of Mathematics, Faculty of Science, **Zagazig University**, 2013.
14. **Wael Mohamed Fawaz Abdel-Rehim**, “*Random numbers significance testing and queues*”, in Computer science, Dept. of Mathematics, Faculty of Science, **Suez Canal University**, 2013.
15. **Ashraf Aly Nasr Mohamed**, “*Enhancement of remotely Sensed Images*”, in Computer science, Dept. of Mathematics, Faculty of Science, **Helwan University**, 2012.
16. **Mohamed A. E. Mahdi**, “*A Proactive Intelligent E--Commerce Environment*”, Dept. of Computer Science, Faculty of Computer and Information, **Cairo University**, 2012.

17. Mahmoud E. A. Emam, “*On Biometrics Authentication*”. in Computer Science, Dept. of Mathematics, Faculty of Science, **Menofya University**, 2012.
18. Noha M. A. El-Badry, “*Interactive Approaches for Solving Parametric Multi-Objective Nonlinear Programming Problem*”, Dept. of Mathematics, Faculty of Science, Damietta Branch, **Mansoura University**, 2011.
19. Qamar A. A. Awad, “*Study Artificial Neural Network Algorithms for Solving the Nonlinear Pattern Classification Problems*”, in Computer Science, Dept. of Mathematics, Faculty of Science, **Zagazig University**, 2011.
20. **Mohamed E. Ahmed**, “*Independent Component Analysis and its Applications*”, in Computer Science, Dept. of Mathematics, Faculty of Science, **Zagazig University**, 2011.
21. **Osama A. F. Ghoneim**, “*Evolutionary Algorithms and their Applications*”, in Computer Science, Dept. of Mathematics, Faculty of Science, Tanta **University**, 2010.

External Examiner for Ph.D. Degree

1. **Naglaa Fathy Khalil El-Abad**, “*Documents Forgery Detection*”, **Dept.** of Computer Science. Faculty of Computers and Artificial Intelligence, **Banha University**, Sept. 2023.
2. **Hamdy Ahmed Mohamed Sayedahmed**, “*Enhancing the Performance of the Fifth Generation Vehicular Network to Everything Using Computational Intelligence*”, Dept. of Computer Science. Faculty of Graduate Studies for Statistical Research, **Cairo University**, Sept. 2023.
3. **Nojood Hashem Hidar El-Waleedy**, “*An Improved Approach for Relative Positioning in Mobile Vehicle Ad Hoc Networks Using Soft Computing*”, Dept. of Computer Science. Faculty of Graduate Studies for Statistical Research, **Cairo University**, May 2023.
4. **Walaa Abd El Aal Farag Afifi**, “*An Improved Approach for Relative Positioning in Mobile Vehicle Ad Hoc Networks Using Soft Computing*”, Dept. of Computer Science, Faculty of Graduate Studies for Statistical Research, **Cairo University**, Aug. 2022.
5. **Mohamed Sayed Salem Basyoni**, “*An Improving Decision Model Based on Fuzzy Data Mining*”, Dept. of Computer Science. Faculty of Graduate Studies for Statistical Research, **Cairo University**, Jun 2022.
6. **Abeer Hassan Abd El Naby El Balkly**, “*Intelligent Classification of Islamic Doctrines of Jurisprudence Based on Authorship Attribution*”, Dept. of Information Systems and Technology. Faculty of Graduate Studies for Statistical Research, **Cairo University**, Mar. 2022.
7. **Assem Hammouda Mohamed Soliman**, “*A Soft Computing Approach for Knowledge Discovery from Big Data*”, Dept. of Information Systems and Technology. Faculty of Graduate Studies for Statistical Research, **Cairo University**, May 2021.
8. **Doaa Rezk Fathy Elzalabany**, “*Semantic Enhancement for Arabic Sign Language Recognition Systems*”, in Computer Science, Dept. of Mathematics, Faculty of Science (Girls), **Al-Azhar University**, April 2021.
9. **Kalyan Das.**, “*Energy Efficient Techniques for the Cloud Integrated Sensor Networks*”. Dept. of Computer Science and Engineering, **Veer Surendra Sai University of Technology** Siddhi Vihar, Burla, Sambalpur-768018, ORISHA, **INDIA**, Mar. 2021.
10. **Eman Ibrahim Abd El-Latif**, “*Defection of Image Splicing Forgery*”, in Computer Science, Dept. of Mathematics. Faculty of Science, **Banha University**, Nov. 2020.
11. **Shereen A. El-aal Mahmoud**, “*Designing Context Aware Systems for Ambient Intelligence in Internet of Things*”, in Computer Science Dept. of Mathematics, Faculty of Science (Girls), **Al-Azhar University**, Nov. 2020.
12. **K. Indupriya**, “*Image Denoising Through Edge Preserving Segmentation in the Frequency Domains Using Soft Computing*”. Dept. of Computer Science, Sri Ramakrishna College of Arts & Science, **Bharathiar University**, Coimbatore, Tamil Nadu, **INDIA**, July 2020.
13. **D. Dhanalakshmi**, “*Efficient Oversampling Algorithms for Classifying Ordinal Multiclass Imbalanced Datasets*”. Dept. of Computer Science, Sri Ramakrishna College of Arts & Science, **Bharathiar University**, Coimbatore, Tamil Nadu, **INDIA**, May 2020.

14. **Vendi D**, “*Improvement and Development of SQL Using Fuzzy Based Queries and Query Generator Tool*”, in Computer Science, Faculty of Information and Communication Engineering, **ANNA University**, Chennai 600 025, **INDIA**, Dec. 2016.
15. **Wael Mohamed Fawaz Abdel-Rehim**, “*Accelerating High Performance Computing Applications by Using Parallel Computing*”, in Computer Science” Dept. of Mathematics, Faculty of Science, **Suez University**, 2016.
16. **Mona Mohammed Abd El-Kareem Mohammed**, “*The Integration of Image Reconstruction and Lesion Detection in Tomographic Imaging*”, in Computer Science” Dept of Mathematics, Faculty of Science, **Suez Canal University**, March 2015.
17. **Esam Mohamed El gohary**, “*Designing an Electronic Democracy Framework to enhance the Egyptian Electronic-government*”, in Computer Science,” Dept. of Mathematics, Faculty of Science, **Suez Canal University**, 2014.
18. **Heba Fathy Ahmed Mohamed Eid**, “*Computational Intelligence in Intrusion Detection System*”, in Computer Science Dept. of Mathematics, Faculty of Science (Girls), **Al-Azhar University**, 2013.

محكم خارجى لترقية أعضاء هيئة التدريس لدرجة أستاذ مشارك و درجة أستاذ

Evaluator of Academic Promotion

I. The Promotion to Associate Professor

1. **Dr Mosab Abd El-Hameed Mohamed Hassan**, Dept. of Mathematics and Computer Science, Faculty of Science, **Benha University**, Dec. 2023.
2. **Dr Hussin Abulkasim**, Dept. of Mathematics (Computer Science), Faculty of Science, **New Valley University**, El-Kharga, Nov., 2023.
3. **Dr. Mohamed Ali Ahmed**, Dept. of Mathematics (Computer Science), Faculty of Science, **Suez Canal University**, Ismailia, Mar. 2023.
4. **Dr Ibrahim A. Attia**, Dept. of Mathematics (Computer Science), Faculty of Science, **Zagazig University**, Zagazig, **EGYPT**, Sept. 2022.
5. **Dr Mohammed Nasef**, Dept. of Mathematics (Computer Science), Faculty of Science, **Monofia University**, Jan. 2022.
6. **Dr Iman Badr**, Dept. of Mathematics (Computer Science), Faculty of Science, **Helwan University**, Cairo, Jan. 2022.
7. **Dr Rasha M. Abo-Bakr**, Dept. of Mathematics (Computer Science), Faculty of Science, **Zagazig University**, Zagazig, Oct. 2021.
8. **Dr Mohamed El-Sayed Ahmed M. AbdelAziz**, Dept. of Mathematics (Computer Science), Faculty of Science, **Zagazig University**, Zagazig, Sept. 2019.
9. **Dr Ahmed AbdelFattah A. Salem**, Dept. of Mathematics (Computer Science), Faculty of Science, **Zagazig University**, Zagazig, Mar. 2018.
10. **Dr Heba F. Eid**, Dept. of Mathematics, Faculty of Science, **Al-Azhar University**, Cairo, Jan 2019.
11. **Dr Emad Masameer**, Dept. of Mathematics, Faculty of Science, **Al-Azhar University**, Cairo, Jul 2018.
12. **Dr Lamiaa M. El-Bakrawy**, Dept. of Mathematics, Faculty of Science, **Al-Azhar University**, Cairo, Jan. 2018.
13. **Dr Jamal Zraqou**, Dept. of Computer Multimedia Systems, **Isra University**, **JORDAN**, Jul. 2016.
14. **Dr Ahmed Younes**, Dept. of Mathematics and Computer Science, Faculty of Science, **Alexandria University**, **EGYPT**, Jun 2013.

15. **Dr Jamal N. Bani Salameh**, Department of Computer Engineering, Faculty of Engineering, Mu'tah University- Karak- **JORDAN**, Feb 2013.
16. **Dr Ali A. Al-Dahoud**, Al-Zaytoonah University of Jordan, Amman, **JORDAN**, Sept. 2006.

II. The Promotion to Professor

1. **Dr Amr Tolba**, Dept. of Mathematics (Computer Science), Faculty of Science, **Menoufia University**, Aug. 2022.
2. **Dr Mohamed a. El-Zawawy**, Dept. of Mathematics (Computer Science), Faculty of Science, **Cairo University**, Jun. 2022.
3. **Dr Ashwaq T. Hashim**, Dept. of Control and Systems Engineering, **University of Technology, Baghdad, IRAQ**, Nov. 2019.
4. **Dr Hala Bahjat Abdul Wahab**, Dept. of Computer Science, **University of Technology, Baghdad, IRAQ**, Mar. 2019.
5. **Dr Ahmed Younes**, Dept. of Mathematics and Computer Science, Faculty of Science, **Alexandria University**, Aug 2018.
6. **Dr Ibrahim Mohamed Selim**, Astronomy Dept., National Research **Institute of Astronomy and Geophysics**, Cairo, Oct 2017.
7. **Dr Tamer A. El-Zohairy**, Dept. of Mathematics (Computer Science), Faculty of Science, **Al-Azhar University**, Cairo, **2017**.
8. **Dr Matheel Emaduldeen**, Dept.of Computer Science, University of Technology, Baghdad, **IRAQ**, Jun 2015.
9. **Dr Bara'a Ali Attea**, Dept. of Computer Science, **University of Baghdad**, Baghdad, **IRAQ**, Jul 2011.

تقييم جوائز جامعية

- جائزة جامعة عين شمس التقديرية 2017-
 جائزة أحسن بحث لنيل جائزة جمعية الرياضيات المصرية 2015
 جائزة جامعة دمياط التشجيعية للعام الجامعي 2015/2014
 جائزة أحسن بحث لنيل جائزة جمعية الرياضيات المصرية 2017
 جائزة أحسن الرسائل العلمية (ماجستير – دكتوراه) بجامعة أسيوط 2016