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Menoufia University  
Faculty of Computers and Information  
Computer Science (CS)



## Curriculum Vitae

### (1) Personal Data

**Name:** Gamal Faruok Elhady

**Date of Birth:** December 17, 1971.

**Address:** Computer Science (CS) Department, Faculty of Computers and Information, Menoufia university, Egypt.

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### (2) Education

Degree	Date Awarded	Educational Institution	Field of Study	
			Major	Minor
PH. D.	August 2006	Mansoura Univ. Egypt	Statistical and Computer science	Computer vision & image processing
M. SC.	February 2002	Mansoura Univ. Egypt.	Statistical and Computer science	Data analysis of Elastic Body
B. SC.	May 1995	Mansoura Univ. Egypt.	Mathematics	

### (3) Work Experience

- Research Assistance from 1997 to 2006 in Faculty of science (Math and computer science Dept. Mansoura University)
- Lecture from 2007 to 2015 in computer science Department, Faculty of Computers and Information, Menoufia University.
- Assistance Prof. from 2017 to 2025 in computer science Department, Faculty of Computers and Information, Menoufia University.
- Prof. from 2025 to now in computer science Department, Faculty of Computers and Information, Menoufia University.
- Head of Computer Science Department from 2024 to the present

### (4) Fields of Interest

I'm teaching the following courses:-

1. Introduction to computer science.
2. Networks system 1
3. Networks system 2
4. File organization

5. Operating systems 1& 2
6. Programming language (Visual Basic dot net + Fortran + C# + C++ and Java)
7. Office group
8. Computer Algebra (Derive + Maple + Matlab)
9. Artificial Intelligent
10. Computer Graphics Systems
11. Image processing
12. Data Base Systems 1& 2
13. Data Mining – Text Mining
14. Compiler Design
15. Computer vision
16. Computer Mathematic
17. system-modelling-and-simulation
18. Design & Analysis of Algorithm
19. Mobile Computing (Mobile Application )
20. Software (Engineering – Testing – Stability )
21. Logic Design 1 & 2
22. System Analysis and Design
23. 3D game program

**In the postgraduate stage**

- **(NLP) Nature Language Processing**
- **Game program**
- **Advanced operating system**
- **(SS) Software Stability**
- **(RE) Regular Expressions**
- **Object subjects**
- **Advanced computer graphic**
- **Advanced mathematics and Statistical Theory**
- **(OOP) Object Oriented Program**

## conferences

- 1) Shaimaa Mahmoud, Mohamed Gaber, **Gamal Farouk**, Arabi Keshk “Prediction of Heart Disease Using New Proposed CNN Model Architecture” 3<sup>rd</sup> IEEE International Conference on Electronic Engineering, Menoufia University, Egypt, 2023 IEEE, Scoups. <https://iceem2023.conferences.ekb.eg/>
- 2) Ebtesam Shemis, **Gamal F. Elhady**, Ammar Mohammed and Arabi Keshk “A Fuzzy-Crisp Frequent Concept Lattice Generation Algorithm” 978-1-6654-6677-6/22/\$31.00 ©2022 IEEE.
- 3) The International Conference on Proceedings of the World Congress on Engineering and Computer Science October 20-23, 2010, San Francisco, USA
- 4) The 6<sup>th</sup> International Conference on Informatics and System (INFOS2008), Faculty of computers and information’s Cairo University, 27- 29 March. 2008, Egypt.
- 5) The 10<sup>th</sup> International conference on Information, 3-5 Feb, 2010, Egypt Delta University.
- 6) 10<sup>th</sup> International Conference on [Intelligent Systems Design and Applications](#), 29 Nov. – 1 Dec. 2010, Egypt.
- 7) International Conference on [Computer Engineering and Systems](#) , 30 Nov.-1 Dec. 2010, Egypt.
- 8) International Conference on [Computer Engineering and Systems](#), 30 Nov.-2 Dec. 2010, Egypt.
- 9) [Fifth International conference on Biomedical Engineering](#), 16-18 Dec. 2010, Egypt.
- 10) The International conference on Information and software, 7-8 Sep, 2021, Egypt Menoufia University.

## (Publications) -

- 1) Medhat A. Tawfeek , Ibrahim Alrashdi , Madallah Alruwaili , Gamal **Farouk Elhady** “A multi-objective fuzzy model based on enhanced artificial fish Swarm for multiple RNA sequences alignment” *Egyptian Informatics Journal, Volume 29, March 2025, 100627, Online ISSN: 2090-4754, Print ISSN: 1110-8665, Impact Factor 5.0, Scencedirect (Q1)* <https://doi.org/10.1016/j.eij.2025.100627>
- 2) Medhat A. Tawfeek , Ibrahim Alrashdi , Madallah Alruwaili , Gamal **Farouk Elhady**, A.S. Abohamama and Abdulaziz Shenab " Leveraging Innovative Hybrid Machine Learning Models to Predict Drought and Optimize Water Resources Based on Climate Change" *Wiley, Advances in Meterology, Volume 2025, Article ID 2278201 Pages*, <https://doi.org/10.1155/adme/2278201>
- 3) Aalaa I. Sehsah1, Afaf Mousa, **Gamal Farouk Elhady** “A Hybrid Variational Autoencoder and WGAN with Gradient Penalty for Tertiary Protein Structure Generation” *Scientific Reports (2025) 15:14191, Journal impact Factor: 3.8 (Q1) Computer Science Publisher, Springer Nature* <https://doi.org/10.1038/s41598-025-94747-y>
- 4) Medhat A. Tawfeek , Ibrahim Alrashdi, Madallah Alruwaili, Leila Jamel, **Gamal Farouk Elhady**, Haitham Elwahsh “EURASIP Journal on Wireless Communication and Networking 2025, Impact Factor: 2.3, Q2 in Computer Science, Springer Open, <https://doi.org/10.1186/s13638-025-02449-w>

- 5) Engy El-Shafeiy , Walaa M. Elsayed Haitham Elwahsh , Maazen Alsabaan , Mohamed I. Ibrahim and **Gamal Farouk Elhady**” Deep Complex Gated Recurrent Networks-Based IoT Network Intrusion Detection Systems” *Sensors (MDPI)*, ISSN: 1424-8220, EISSN: 1424-8220, Open Access, Impact Factor: 3.7, Scopus, Web of Science(Q1) <https://doi.org/10.3390/s24185933>
- 6) **Gamal F. Elhady**, Haitham Elwahsh, Maazen Alsabaan, Mohamed I. Ibrahim and Ebtesam Shemis “A Formal Fuzzy Concept-Based Approach for Association Rule Discovery with Optimized Time and Storage” *Mathematics (MDPI)*, 2024, 12, 3590, ISSN: 2227-7390, EISSN 1424-8220, Open Access, Impact Factor: 2.3, Scopus, Web of Science (Q1) <https://doi.org/10.3390/math12223590>
- 7) Ebtesam Shemis, Arabi Keshk, Ammar Mohammed and **Gamal Elhady** “Efficient Parallel Algorithm for Extracting Fuzzy-Crisp Formal Concepts” *International Journal of Advanced Computer Science and Applications(IJACSA)*, 15(8), 2024 ISSN : 2156-5570 (Online), ISSN : 2158-107X (Print), Web of Science (Q1) IF0.7. <http://dx.doi.org/10.14569/IJACSA.2024.0150862>
- 8) Ebtesam Shemis **Gamal F. Elhady**; Ammar Mohammed; Arabi Keshk “A New Efficient Approach for Updating Formal Fuzzy Concepts” *International Journal for Computers and Information*, Vol. 10 - 3, Oct. 2023 , IJCI ISSN: 1687-7853 Online ISSN: 2735-3257. <https://doi.org/10.21608/ijci.2023.235339.1123>
- 9) Shaimaa Mahmoud, Mohamed Gaber, **Gamal Farouk**, Arabi Keshk “Heart Disease Prediction Using Modified Version of LeNet-5 Model” *I.J. Intelligent Systems and Applications*, 2022, 6, 1-12 Published Online on December 8, 2022 by MECS Press (<http://www.mecspress.org/>) DOI:10.5815/ijisa.2022.06.01
- 10) Shaimaa Mahmoud, Mohamed Gaber, **Gamal Farouk**, Arabi Keshk " Improving Prediction of Cardiovascular Disease Using CNN Models with Electrocardiogram Images ” *INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING*
- 11) Ebtesam Shemis, **Gamal F. Elhady**, Ammar Mohammed and Arabi Keshk “A New Efficient Approach for Updating Formal Fuzzy Concepts” *International Journal for Computers and Information, IJCI*, Vol. 10 - 3, Oct. 2023 (Special Issue)
- 12) Shaimaa Mahmoud, Mohamed Gaber, **Gamal Farouk**, Arabi Keshk " Prediction of Cardiovascular Disease Using Machine Learning Techniques ” *IJCI V9-02(2022) 25–44 International Journal of Computers and Information (IJCI) Available online at <https://ijci.journals.ekb.eg/>*
- 13) **G. F. Elhadi**, Y. M. Fouda and M. Eisa, " Similarity and Epipolar Constraints for 3D Reconstruction" *IJICIS Vol 6, No 1, JANUARY 2006 International Journal of Computing and Information Science*, Ain-Shams University.
- 14) **G. F. Elhadi**, Y. M. Fouda and M. Eisa, " Fast Trigonometric Polynomial Approach for Computing the Shape from Shading" *ICGST International Journal on GVIP, Germany*, Vol 5, Issue 9, pp 21-26, Dec 2005.
- 15) **G. F. Elhadi**, Y. M. Fouda and M. Eisa, " Shape From Shading: A Survey" *MJCSIS Vol.3, No.3, pp4-21 in International Journal of Computing and Information Science*, Mansoura University.
- 16) **G. F. Elhadi**, M. Rashad and M. Eisa, " Shape From Stereo" *GESTS Vol.36, No.1, in International Transactions on Computer and Engineering KOREA*

- 17) **Gamal. F. Elhadi** " 3D Estimation for Shading Images using Homogenous Polynomials with order n " ICI 10 - 10TH INTERNATIONAL CONFERENCE ON INFORMATION 2010.
- 18) **Gamal. F. Elhadi**, M. Abdelhamed "CLUSTERING DNA SEQUENCES BY SELF-ORGANIZING MAP AND SIMILARITY FUNCTIONS" publishing in the conference of Faculty of Computers and Information Cairo UN 3/2010 we visit infos website
- 19) Hamada M.Zahera, **Gamal F. El Hady**, Waiel.F Abd El-Wahed" Query Recommendation for Improving Search Engine Results" *Proceedings of the World Congress on Engineering and Computer Science 2010 Vol I WCECS 2010, October 20-22, 2010, San Francisco, USA*
- 20) R. M. Farouk, **G. F. Elhadi** " Time of Matching Reduction and Improvement of Sub-Optimal Image Segmentation for Iris Recognition" *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 3, No. 1, May 2011
- 21) **Gamal F. El Hady**, Hamada M.Zahera , Waiel.F Abd El-Wahed " Query Recommendation for Improving Search Engine Results" *International Journal of Information Retrieval Research*, 1(1), 31-44, January-March 2011
- 22) R. M. Farouk, **Gamal F. Elhadi** and Abdalhakeem. T. Issa" A hand finding and segmenting in a partially cluttered scene " *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 3, May 2011
- 23) **Gamal. F. Elhadi**, R. M. Farouk and Abdalhakeem. T. Issa "Protein sequence for clustering DNA based on Artificial Neural Networks" *IJCSI International Journal of Computer Science Issues*, Vol. 9, Issue 1, No 3, January 2012
- 24) **Gamal. F. Elhadi** "Improving Iris Recognition by using eyelashes noisy processing" *International Journal of Computer Applications (0975 – 8887) Volume 50 – No.1, July 2012. USA*
- 25) Abdalhakeem. T. Issa , **Gamal. F. Elhady**" An Exponential of Beta with Second Type to Estimation Blind Source Separation" *Journal of Computer Vision Approaches* Vol. 1. No. 1, pages 13-20. 2013
- 26) HM Mousa, **GF Elhady** "Trust model development for cloud environment using fuzzy mamdani and simulators" *Journal: Journal of Computers and Technology* 11-13 2014
- 27) **Gamal. F. Elhadi**\_Medhat A. Tawfeek " A Comparative Study into Swarm Intelligence Algorithms for Dynamic Tasks Scheduling in Cloud Computing" 2015 IEEE Seventh International Conference on Intelligent Computing and Information Systems (ICICIS' 15)
- 28) Medhat A. Tawfeek **Gamal F. El-Hady** " Hybrid Algorithm based on Swarm Intelligence Techniques for Dynamic Tasks Scheduling in Cloud Computing" accepted to publishing 2016 *I.J. Intelligent Systems and Applications*
- 29) Fuzzy Trust Model for Cloud Environment using Simulators Alghamdi, **GF Elhady** *International Journal of Advances in Scientific Research and Engineering (ijasre)* 2018