

Curriculum Vitae



Section (1) Personal Data

Name: Hala Abdel-Galil El-Sayed
Date of birth: 13/5/1964
Sex: Female
Position: professor, head of computer science Department from 2015 till 2024
Institution: Computer Science Department, Faculty of Computers and Artificial Intelligence, Helwan, Cairo, Egypt

Work Address: Ain Helwan, Faculty of Computers and Artificial Intelligence, Zip Code: 11795, Helwan, Cairo, Egypt.

Phone work: +202-5555023
Fax: +202-5569071
Home Address: 66. 105. 1st. Flat No. 1, Hadayek El-Maadi, Cairo, Egypt.

E-mails: hala.nagy@fci.helwan.edu.eg

Section (2) Academic Degree

1- BSc. In pure Mathematics and Computer Science, Faculty of Science, Ain Shams University, Very Good with Honors degree,

May 1986.

- 2- **MSc.** in Computer Science, Faculty of Science- Ain Shams University, Egypt, Nov. 1996, entitled: “On Petri Nets and their Applications”.
- 3- **PhD.** in Scientific Computations, Faculty of Science, Cairo University, September 2003, entitled: “System Decision making for Environmental Pollution using Neural Networks”.
- 4- **Associate professor** in Scientific Computations, Faculty of Computers & Information, December 2015.
- 5- professor in Artificial Intelligence, Faculty of computers and Artificial Intelligence, October 2022.

Section (3) Field with special interest

- Good training in the field of **computer and space sciences**.
- Great experience in the field of **modeling** using **Neural Networks** and **Petri nets tools**.
- Shared in training literature at NRIAG, in the following subjects:
Basic and C languages, Computer networks.
- Good experience in the implementation of **artificial intelligent** techniques especially modern algorithms of **machine learning** and **deep learning techniques** in different fields like medicine, face recognition, facial emotional recognition, satellite images of earth, ... etc.
- **Pioneer worked in Enhancement of Operating System Performance in Nanotechnology Environment in 2018.**

- Good experience in the **development of artificial intelligence algorithms.**

Section (4) Additional Courses

- **From 9/5/2002 to 31/7/2002:** A course in TOEFL, American University, Cairo.
- **From 2/9/2000 to 17/9/2000:** Advanced course in the evaluation of environmental effects, Institute of studies and environmental research, Ain Shams University, Egypt.
- **From 10/6/2000 to 26/7/2000:** A course in environmental science, Institute of studies and environmental research, Ain Shams University, Egypt.
- **From 10/1/98 to 22/1/98:** A course in Visual Basic, Training center for Governmental Leaders.
- **From 10/7/98 to 10/8/98:** A course in visual C++, Computek Computer Center.
- **From 5/2/89 to 29/6/89:** A course in Advanced English language, Academic of scientific research and technology.
- **From 12/11/85 to 8/1/86:** A course in Pascal, Faculty of Engineering, Information systems center, Ain Shams University, Egypt.
- **From 29/7/85 to 21/8/85:** FORTRAN language, the center of scientific computation, Ain Shams University.

Teaching Experience:

- **Undergraduate:**
 - Faculty of Computers and Artificial Intelligence: (2004-present)

- Introduction to Computer Science
 - Logic Design
 - Operating System-1
 - Algorithms
 - Programming Language-1
 - Programming Language-2
 - Computer Maintenance
 - Selected Topics in Computer Science-1
 - Selected Topics in Computer Science-4
 - Compilers
 - Software Engineering-2
- Faculty of Commerce and Business Administration: (2004-present)
 - Programming Language-1
 - Programming Language-2
 - Software Packages
 - Fundamentals of Structured Programming
- Faculty of Home Economy: (2008)
 - Computer Basics
- Faculty of Pharmacy: (2007-2008)
 - Introduction to Computer Science
- Faculty of Social Service: (2007-2008)
 - Computer
- **Postgraduate**
 - Faculty of Computers and Artificial Intelligence: (2017-present)
 - Advanced Artificial Intelligence (master)
 - Algorithms (master)
 - Evolutionary algorithms (PhD)

- Artificial Intelligence (PhD)
- Fundamentals in Computer Science-1 (PhD)
 - Scientific Computation Theory

Positions

Chairmanship and membership of councils:

1. Member of the College Board since 2016 until now.
2. Chairman of the Department of Computer Science, September 2019 until 2024.
3. Member of the Software Engineering Program Board of Directors since 2016 until 2024.
4. Member of the Board of Directors of the Social Solidarity Fund since 2016 until 2024.
5. Member of the Quality Management Board since 2016 until 2024.

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1. Chairman of the committee formed regarding the proposed memorandum of understanding between the college and Link Software Development Company.
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5. Member of the Library Committee September 2019 until 2024.
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8. Member of the committee with the problem with College Council Decision No. 241 held on March 29, 2017 to study and amend course codes.
9. Member of the committee formed to form the committees of the first student conference for artificial intelligence, which was held on 1/7/2020.
10. Member of the committee formed to study the file of the first student conference on artificial intelligence, which was held on 1/7/2020.
11. Member of the committee formed to examine the answer sheet for the subject (Database Systems-1).
12. Member of the Quality Management Board since 2016 until 2024.
13. Member of the committee for setting technical specifications for printers that are purchased through the university administration.

Administrative position

Head of the computer science department from 2016 till 2024,
Faculty of Computers and Artificial Intelligence,

Section (5) Computer Language

- Basic, and Visual Basic
- Fortran
- Pascal
- Ada
- Lisp
- Prolog
- Python

- C, Visual C++, visual basic, Java, Python
- Mathematica

Section (6) Languages

- English is very good

Section (7) Publications

List of Publications

1. Abdel Badeeh M. Salem, Laila F. Abdel All, Hala Abdel-Galil, **"Predicting Water Quality Using Neural Networks: Application on River Nile"**, Proceeding in the MENDEL 2002 8th International Conference on Soft Computing: Evolutionary Computation, Genetic Programming, Fuzzy Logic, Rough Sets, Neural Networks, Fractals, Bayesian Methods, June 5-7, 2002, Brno, Czech Republic.
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- 5- Hamdy K. Elminir, Hala Abdel-Galil, **"Estimation of Air Pollution Concentrations from Meteorological Parameters using Artificial**

- Neural Networks"**, Journal of electrical engineering, Vol. 57, No. 2, 2006, P. 105-110. Print ISSN 1335-3632, March-April
- 6- M. Samir, H. Abdel-Galil " **A New Method for Kidney Rejection Detection** "ITI 4th International Conference on Information & Communication Technology, ICICT 2006. Print ISBN: 0-7803-9770-3
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 - 9- Mostafa Sami, Hala Abdel-Galil, Mona Nabil " **multisource mobile coding** ", Egypt computer science journal Vol 34 number 4 may 2010 ESC, P. 36-49.
 - 10- Doaa sami, Hala Abdel-Galil, and Mostafa Sami Mahmoud, " **Automated Unit Testing Tool for .Net Framework**. International Journal of Computer Applications 71(7):11-15, June 2013. Published by Foundation of Computer Science, New York, USA. BibTeX
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 - 12- Iraky Khalifa, Hala El-Sayed, Islam Abd El-Gaber, **Enhanced Mobile Cloud Computing Platform**, International Journal of Computer Applications (0975 – 8887) Volume *– No.*, pxc3885209,2013
 - 13- Hala Abdel-Galil, Mostafa Sami Mahmoud, Salha Ibrahim Alhashani, " **Automatic Tracking of Moving humans in Real-Time**

Scene for Security Applications", Egypt computer science journal
Vol. 37, No. 3 may issue. 2012

- 14- Amany Abdel Aziz El_Sebaa, Mohamed Abdel Fatah Bela, Hala Abdel- Galil
"Enhanced DNA Sequence Assembly System", Egyptian computer science journal Vol 37, No. 3 may issue 2012
- 15- HiIraKy Khalifa, Hala Abdel-galil and Mohamed M Abbassy. **"Mobile Hospitalization for kidney transplantation"**, International Journal of Computer Applications Vol. 92, No. 6, 2014
- 16- Mohamed H. Haggag , Hala Abd Al-Galil , and Ahmed M. Ahmed . **" Semantic Roles Labeling Based on Link Parser "** The international conference for computation and informatics ICCI Egypt.11/12/2012
- 17- Asmaa Reda, Hala Abdel-Galil, and Atef Z. Ghalwash. **"AntHeaps: A New Hybrid Image Segmentation Algorithm Using Ant Colonies"**, International Journal of Computer Applications Vol. 81, No. 3, November 2013
- 18- A. A. Aziz, M. A. Belal, H. A. El-Galil, **"Enhanced Overlap Graph Reduction for DNA Sequence Assembly"**, 1st International Conference on Computing and Informatics, (2012).
- 19- Amany Abdel Aziz El_Sebaa, Mohamed Abdel Fatah Belal, Hala Abdel Galil El_Sayed, **"A New Algorithm for Overlap Graph Reduction"**, Egyptian Computer Science Journal", ECS, Vol. 37 No. 3, May 2013 ISSN-1110-2586. 5
- 20- O. B. Gazi, M. A. Belal, H. A Galil, **"Edge Detection In Satellite Image Using Cellular Neural Network"**, International Journal Of Advanced Computer Science And Applications, Volume 5, Number 10 (2014).
- 21- Mohamed Abd El-Fatah Belal, Hala Abdel-Galil, Yasser Mohamed Saber, **"Ontology Extraction from Text: Related works between Arabic and English languages"**, International Journal of Advanced Research in Computer Science and Management Studies, Volume 4, Issue 8, August 2016, ISSN: 2321-7782 (Online) 57.
- 22- Hadeer S.Hossam, Hala Abdel-Galil, Mohamed A. Belal, **"On Scheduling Approach for Grid Computing"**, International Journal of

- 23- Mona nabil, , Hala Abdel-Galil, Mostafa Sami Mahmoud, and Wessam ElBehaidy, " **From Silicon Chips to Carbon Nanotubes**" International Journal of Computer Applications (IJCA), Volume 178 - Number 3, November 2017.
- 24- Mona Nabil, Wessam ElBehaidy, Hala Abdel-Galil, and Mostafa Sami Mahmoud "The Era of Expeditious NanoRAM-Based Computers - Enhancement of Operating System Performance in Nanotechnology Environment" International Journal of Applied Engineering Research (IJAER), Volume 13, Number 1, January 2018.
- 25- Doaa Abdullah, Hala Abdel-Galil and Ensaf Hussein, "**Enhancing K-Means Clustering with Bio-Inspired Algorithms**", IJCSN - International Journal of Computer Science and Network, Volume 7, Issue 6, December 2018 ISSN (Online): 2277-5420.
<http://ijcsn.org/articles/0706/Enhancing-K-Means-Clustering-with-Bio-Inspired-Algorithms.html>
- 26- Esraa Samir Ahmed, Laila A. Abd-Elmegid, Hala Abdel-Galil, " **Efficient Model to Reduce False Positives using Outliers Detection in Big Data**", Communications on Applied Electronics (CAE) – ISSN: 2394-4714 Foundation of Computer Science FCS, New York, USA Volume 7– No. 24, December 2018 – www.caeaccess.com.
- 27- A. H. Mostafa, H. Abdel-Galil El-Sayed, and M. A. Belal, "**Facial Expressions Recognition Via CNNCraft-net for Static RGB Images**," International Journal of Intelligent Engineering and Systems (IJIES), vol. 14, no. 4, 2021.
- 28- O. Mohamed, H. Nagy, and H. Mahmoud, "**Classification of breast cancer types based on deep learning approach**," International Journal of Advanced Trends in Computer Science and Engineering, vol. 10, no. 1, 2021.
- 29- E. M. Gomaa, Z. H. Ali, and H. Abdel-Galil El-Sayed, "**Effect of Mobile-Based Learning on Second Year Nursing Students' Clinical Competence and Motivation**," IOSR Journal of Nursing and Health Science (IOSR-JNHS), vol. 9, no. 6, 2020.
- 30- E. M. Gomaa, Z. H. Ali, and H. Abdel-Galil El-Sayed, "**Nursing Students' Perception Regarding Mobile-Based Learning**,"

International Journal of Novel Research in Healthcare and Nursing, vol. 7, no. 3, 2020.

- 31- A. H. Mostafa, H. Abdel-Galil El-Sayed, and M. A. Belal, **"Benchmarking of Convolutional Neural Networks for Facial Expressions Recognition,"** Journal of Theoretical and Applied Information Technology, vol. 98, no. 18, 2020.
- 32- A. I. Naguib, H. Abdel-Galil, and S. AbdelGaber, **"A Model for Traffic Management based on Text Mining Techniques,"** International Journal of Advanced Computer Science and Applications, vol. 11, no. 12, 2020.
- 33- Hadeer S.Hossam, Hala Abdel-Galil, Mohamed Belal, **"WorkStealing Algorithm for Load Balancing in Grid Computing",** in (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 12, No. 7, 2021. <https://thesai.org/Publications/ViewIssue?volume=12&issue=7&code=IJACSA>
- 34- Ahmed Hesham, Hala Abdel-Galil, and Mohamed Belal. **"Ensemble Model-based Weighted Categorical Cross-entropy Loss for Facial Expression Recognition."** In 2021 Tenth International Conference on Intelligent Computing and Information Systems (ICICIS), pp. 165-171. IEEE, 2021.
- 35- Nehal A. Mohamed, Aliaa Youssif, and Hala A. Galil, **"Fast and Robust Image Encryption Scheme based on Quantum Logistic Map and Hyper Chaotic System",** Journal of Complexity, Vol. 2022, 2022. Download Link: <https://www.hindawi.com/journals/complexity/>
- 36- Gamal I, Abdel-Gelil H, Ghalwash A. Osmotic Message Oriented Middleware for Internet of Things. Computers, Vol. 11, Issue No. 4, April 2022 online Access.
- 37- Gamal I, Abdel-Gelil H, Ghalwash A. Osmotic Computing Enhancement Based on Blockchain Approach. Journal of Theoretical and Applied Information Technology, vol. 100, Jun. 2022, Online Available.

- 38- Yasser Mohamed Saber, Hala Abdel-Galil and Mohamed Abd El-Fatah Belal, “ArabicArabic ontology extraction model from unstructured Text”, Journal of King Saud University –Computer and Information Sciences, <https://doi.org/10.1016/j.jksuci.2022.02.007>
[https://authors.elsevier.com/sd/article/S1319-1578\(22\)00040-4](https://authors.elsevier.com/sd/article/S1319-1578(22)00040-4)
- 39- Sara Medhat, Hala Abdel-Galil, Amal Elsayed Aboutabl, Hassan Saleh, (2022).” Skin Cancer Diagnosis Using Convolutional Neural Networks for Smartphone Images: a Comparative Study”, Journal of Radiation Research and Applied Science, 15 (2022) 262-267, ELSEVIER, available online 4 April 2022.
- 40- M. Mokhtar, S. Doma, and H. Abdel-Galil. "AUTOMATIC QUESTION GENERATION MODEL BASED ON DEEP LEARNING APPROACH." *International Journal of Intelligent Computing and Information Sciences* 21, no. 2 (2021): 110-123.
Download Link :
https://ijicis.journals.ekb.eg/article_189182_6a0cd1a1a15c33b47fa9cea92863883e.pdf
- 41- Hadeer S.Hossam, Hala Abdel-Galil, Mohamed Belal,"A Survey of Fog Computing: Architecture and Research Challenges", FCI-H Informatics Bulletin, Volume 4, Issue 1
- 42- Nehal A. Mohamed, Aliaa Youssif, and Hala A. Galil, “**mixed Multi-chaos Quantum image Encryption scheme based onQuantum Cellular Automata (QCA)** ”, Journal of Fractal Fract. (ISSN 2504-3110), 30 September 2023.
- 43- Sara Medhat, Hala Abdel-Galil, Amal Elsayed Aboutabl, Hassan Saleh, (2022).” Interactive magnitude pruning-based light-versin of AlexNet for skin cancer classification”, Journal of Neural Computing and Applications (2024) 36:1413-1428, published online, Springer, 20 November 2023.
- 44- Hadeer S.Hossam, Hala Abdel-Galil, Mohamed Belal,"An energy-awaremodule placement strategy in fog-based healthcare monitoring systems", Cluster Computing, DOI: 10.1007/s10586-024-04308-7, 22/3/ 2024,
<https://link.springer.com/content/pdf/10.1007/s10586-024-04308-7.pdf>
- 45- Naglaa Fathy Mostafa, Shadia Abdel Kader Hassan, Hala Abdel-Galil, Diao Abo El-halim, Reda M. Nabil Aboushaday, “ impact of mobile follow up protocol of care on pregnancy outcomes among preeclamptic women: A RANOMIZED CONTROLLED TRIAL (RCT)” , Journal of Tianajin University Science and Technology, ISSN (Online): 0493-2137 open access, Vol: 58 Issue: 03: 2025, DOI: 10.5281/zenodo. 15081628.

- 46-Ashgan H. Khalil, Atef Z. Ghalwash, Hala A. Elsayed, Gouda I. Salama, and Haitham A. Ghalwash, “**Enhancing Digital Image Forgery Detection Using Transfer Learning**”, Volume 11, Pp 91583 – 91594, IEEE Access, IEEE, 22 August 2023.
- 47-[2] Ashgan H. Khalil, Atef Z. Ghalwash, Hala A. Elsayed, Gouda I. Salama, and Haitham A. Ghalwash, “**FusedDeep Representation of Traditional Features for Copy-Move Forgery Detection**”, The 2024 IEEE International Conference on Machine Intelligence and Smart Innovation – ICMISI2024, IEEE Explore, 12-14 May 2024.
- 48-[3] Ashgan H. Khalil, Atef Z. Ghalwash, Hala A. Elsayed, Gouda I. Salama, “**Image Forgery Detection Using Deep Learning: A Comparative Study**”, Informatics Bulletin, Faculty of Computers and Artificial Intelligence, Helwan University, Published Online, Vol 6, Issue 2, (<https://fcihib.journals.ekb.eg>), July 2024.
- 49-Khalaf, R. S., El-Sayed, H. A., El-Sayed, H. F., & Abd El-Gawad, N. A. (2022). The effect of artificial intelligence techniques on nursing performance at labor unit. IOSR Journal of Nursing and Health Science (IOSR-JNHS), 11(1, Ser. IV), 50–61.

Section (8) References

- 1- Prof. Dr. L. F. AbdelAll**, Prof. Of Mathematics, Faculty of Science, Mathematics Dept. Cairo University.
- 2-Prof. Dr. Abdel-Badeeh M. Salem.**, Prof. Of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University.
- 3- Prof. Dr. Mostafa Sami Mahmoud**, Prof. of computer science, computer science department, Faculty of Computers and Artificial Intelligence, Helwan, Cairo, Egypt.
- 4- Prof. Dr. Nashat F. M. Fathy**, Prof. of Mathematics, Faculty of Science, Mathematics Dept. Ain Shams University.

- 5- **Prof. Dr. Mohamed Abdel Fattah Belal**, Prof. of computer science, computer science department, Faculty of Computers and Artificial Intelligence, Helwan, Cairo, Egypt.

Prof. Dr. Hala Abd El-Galil El-Sayed

Former Head of Computer Science

department

Faculty of Computers and Artificial Intelligence,

Helwan, Cairo, Egypt

هاله عبدالجليل السيد عبدالجليل ناجى	الاسم	
Hala Abdel-Galil El-Sayed Abdel-Galil nagy	Name	
Hala Abd Al-Galil	الاسم المستخدم فى النشر العلمى	
أستاذ متفرغ	الوظيفة الحالية وجهة العمل	
أستاذ بجامعة حلوان /مصر	الدرجة العلمية (اسم الجامعة والدولة)	
علوم الحاسب	التخصص العام	
الذكاء الاصطناعى	التخصص الدقيق	
hala.nagy@fci.helwan.edu.eg	البريد الإلكترونى	
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4- **Associate professor** in Scientific Computations, Faculty of Computers & Information, December 2015.

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Fax: +202-5569071

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Field with special interest

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- Great experience in the field of **modeling** using **Neural Networks** and **Petri nets tools**.

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 - Computer
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 - Faculty of Computers and Artificial Intelligence: (2017-present)

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الأبحاث
المنشورة

2. Abdel Badeeh M. Salem, Laila F. Abdel All, Hala Abdel-Galil, "**Predicting Water Quality Using Neural Networks: Application on River Nile**", Proceeding of the Workshop on Neural Networks Applications ICICIS 2002 First International Conference on Intelligent Computing and Information Systems June 24-26, 2002, Cairo, Egypt.
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