



Hala Mohamed Abbas

Nationality: Egyptian

Date of birth: 25/05/1980

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CAREER OBJECTIVE

To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with sheer determination, dedication and hard work.

EDUCATION AND TRAINING

2013 **PhD in Computer science**

Faculty of Computers and Artificial Intelligence, Helwan University

Field(s) of study: AI, High Performance Computing.

Thesis: "Enhancing the Performance of Mobile Grid Computing."

2006 **Master's in computer science**

Faculty of Computers and Artificial Intelligence, Helwan University

Field(s) of study: Image Processing.

Thesis: "Development of a System for data Hiding Using Digital Images."

2001 **BSc in Computer science**

Faculty of Computers and Artificial Intelligence, Helwan University

Field(s) of study: Computer Science

Final grade: Excellent with Honor Degree

WORK EXPERIENCE

08/2017 till now

Assistant Professor



Faculty of Computer studies, Arab Open University - a partner of The Open University UK - Egypt branch.

<https://www.aou.edu.eg>

Jul. 2020 – Feb. 2021 worked as the ITC program coordinator for Egypt branch. And was Responsible for preparing the Bachelor degree bylaws for both the OU and the Egyptian Supreme Council of Universities accreditation of 5 different tracks.

2013 – Aug. 2017 **Assistant Professor**



Faculty of Computers & Artificial Intelligence, Helwan University.

<http://www.helwan.edu.eg>

Department: Computer Science

2006 – 2013

Teaching Assistant

Faculty of Computers & Artificial Intelligence, Helwan University.

2001 - 2006

Master Student and Lecturer

Faculty of Computers & Artificial Intelligence, Helwan University.

1997 - 2001

Undergraduate Student

Faculty of Computers & Artificial Intelligence, Helwan University.

LANGUAGE SKILLS

- Arabic: mother tongue.
- English: fluent.
- French: basics.

DIGITAL SKILLS

Programming Languages	C / C++ / C# / VB.net / Java PHP / HTML/ CSS / JavaScript / Microsoft Azure / MATLAB / Python
Operating Systems	Windows / Linux
Office Solutions	Word / Excel / PowerPoint / OneNote / Outlook
DBMS	SQL / MySQL
Network Simulation	Cisco Packet Tracer
Other	Bibtex, L ^A T _E X, T _E X

RESEARCH INTEREST

- Deep learning.
- Internet of things.
- Human computer interaction.
- Social networks security.
- Mobile and Grid Computing.
- Data Replication in wireless networks.
- Distributed systems.
- Algorithm design and analysis.

TEACHING EXPERIENCE

- | | |
|-----------------------------------|-----------------------------|
| ▪ Algorithms Analysis and Design. | ▪ Data Structures. |
| ▪ Logic Design | ▪ Programming Languages 1 |
| ▪ Programming Languages 2 | ▪ Introduction to Computers |
| ▪ Computer Organization | ▪ Data Communication |
| ▪ Compilers | ▪ Multimedia |
| ▪ Parallel Processing | ▪ Computer Vision |

PUBLICATIONS

- Ahmed Mahmoud Al-Badawy, Mohammed Belal, Hala Abbas, "A Lightweight Privacy Preservation Protocol for IOT (A Data and Metadata Protection Protocol)", *International Journal of Advanced Computer Science and Applications (IJACSA)*, Vol. 15, No. 9, pp. 461-470, 2024.
- Karim Magdy, Ghada Khoriba, Hala Abbas, "Enhancing Semantic Image Synthesis: A GAN-Based Approach with Multi-Feature Adaptive Denormalization Layer", *MEDI 2023, 12th International Conference on Model and Data Engineering*, published in Lecture Notes in Computer Science (LNCS) by Springer-Verlag, 2023.
- Karim Magdy, Ghada Khoriba, Hala Abbas, "Efficient Semantic Image Synthesis with Normalization Layers and Depth Estimation", *MIUCC-23- the 3rd International Mobile, Intelligent, and Ubiquitous Computing Conference*, 2023.
- Merna Gamal, Hala M. Abbas, Rowayda A. Sadek et al, "A Few-Shot Deep Learning Model for Discovering Anomalous Behaviors at the Edge of Networks", *CMC-Computers, Materials & Continua*, Vol. 69, No. 2, 2021.
- Karim Magdy, Ghada Khoriba, Hala Abbas, "Semantic Image Synthesis Manipulation for Stability Problem using Generative Adversarial Networks: A Survey", *Informatics Bulletin, Faculty of Computers and Artificial Intelligence, Helwan University*, Vol. 3 Issue 1, 2021.
- M Gamal, H Abbas, R Sadek, "Hybrid Approach for Improving Intrusion Detection Based on Deep Learning and Machine Learning Techniques", *The International Conference on Artificial Intelligence and Computer Vision*, vol.1153, pp.225-236 ,2020.

- A. M. Albadawy, H. M. Abbas, M. Belal, "A TTP-Free Location privacy framework for mobile social networks with key agreement protocol ", International Journal of Applied Engineering Research (IJAER), Volume 13, Number 14, 2018.
- A.Hussein, H. M. Abbas, M. Sami, "Biometric-based Authentication Techniques for Securing Cloud Computing Data - A Survey ",International Journal of Computer Applications (IJCA), Volume 179 – No.23, Feb. 2018.
- S. Zakarya, H. Abbas, M. Belal, " Long-Term Deep Learning Load Forecasting Based On Social and Economic Factors in The Kuwait Region ", accepted to be published in Journal of Theoretical and Applied Information Technology (JATIT), 2017.
- Khalifa, H. M. Abbas, "Mobility Prediction In Dynamic Grids", international journal of Computer and Information Science (CIS), Vol. 5, No. 3, pp.90-96, 2012.
- H. M. Abbas, I. Khalifa, " Improving Data Replication using Mobility Prediction", International Journal of Engineering Research and Applications (IJERA), Vol. 2, No. 3, 2012.

CERTIFICATIONS and TRAINING

- Obtaining CCNA certificate from Cisco Instructor academy.
- At Competency Development and Ongoing Training Center, Helwan University.
 - Student Evaluation workshop.
 - International Publishing of Research.
 - How to Compete for a Research Fund workshop.
 - Use of Technology in Teaching.
 - Time and Conference Management.

HONOURS AND AWARDS



The Excellence Award in Academic Advising at the Arab Open University for 2023 & 2024.



Funding of a graduation project “ Water Sustainability Management Using IOT ”

REFERENCES

Prof. Osama Emam

Dean

Faculty of Computers & Artificial Intelligence,
Helwan University.

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Dr. Ahmed Gawish

Associate Professor

General Program Coordinator

Faculty of Computer Studies,

Arab Open University, Headquarters, Kuwait.

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Prof. Eid Emary

Co-Dean

Faculty of computer studies

Arab Open University, Egypt

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الصورة الشخصية	هالة محمد عباس طه	الاسم
	Hala Mohamed Abbas Taha	Name
	Hala Abbas	الاسم المستخدم فى النشر العلمى
	مدرس – كلية الحاسبات والذكاء الاصطناعي	الوظيفة الحالية وجهة العمل
	الدكتوراه – جامعة حلوان - مصر	الدرجة العلمية (اسم الجامعة والدولة)
	علوم الحاسب	التخصص العام
	الذكاء الاصطناعي في الحسابات فائقة الأداء	التخصص الدقيق
	hala.abbas@fci.helwan.edu.eg	البريد الإلكتروني
	PhD in Computer Science, Master's in computer Science, BSc in Computer Science	المؤهلات العلمية
		السيرة الذاتية
	<p>- Ahmed Mahmoud Al-Badawy, Mohammed Belal, Hala Abbas, "A Lightweight Privacy Preservation Protocol for IOT (A Data and Metadata Protection Protocol)", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 15, No. 9, pp. 461-470, 2024.</p> <p>- Karim Magdy, Ghada Khoriba, Hala Abbas, "Enhancing Semantic Image Synthesis: A GAN-Based</p>	الأبحاث المنشورة

Approach with Multi-Feature Adaptive Denormalization Layer", MEDI 2023, 12th International Conference on Model and Data Engineering, published in Lecture Notes in Computer Science (LNCS) by Springer-Verlag, 2023.

- Karim Magdy, Ghada Khoriba, Hala Abbas, "Efficient Semantic Image Synthesis with Normalization Layers and Depth Estimation", MIUCC-23-the 3rd International Mobile, Intelligent, and Ubiquitous Computing Conference, 2023.
- Merna Gamal, Hala M. Abbas, Rowayda A. Sadek et al, "A Few-Shot Deep Learning Model for Discovering Anomalous Behaviors at the Edge of Networks", CMC-Computers, Materials & Continua, Vol. 69, No. 2, 2021.
- Karim Magdy, Ghada Khoriba, Hala Abbas, "Semantic Image Synthesis Manipulation for Stability Problem using Generative Adversarial Networks: A Survey", Informatics Bulletin, Faculty of Computers and Artificial Intelligence, Helwan University, Vol. 3 Issue 1, 2021.

- M Gamal, H Abbas, R Sadek, "Hybrid Approach for Improving Intrusion Detection Based on Deep Learning and Machine Learning Techniques", The International Conference on Artificial Intelligence and Computer Vision, vol.1153, pp.225-236 ,2020.
- A. M. Albadawy, H. M. Abbas, M. Belal, "A TTP-Free Location privacy framework for mobile social networks with key agreement protocol ", International Journal of Applied Engineering Research (IJAER), Volume 13, Number 14, 2018.
- A.Hussein, H. M. Abbas, M. Sami, "Biometric-based Authentication Techniques for Securing Cloud Computing Data - A Survey ", International Journal of Computer Applications (IJCA), Volume 179 – No.23, Feb. 2018.
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	<p>- Khalifa, H. M. Abbas, "Mobility Prediction In Dynamic Grids", international journal of Computer and Information Science (CIS), Vol. 5, No. 3, pp.90-96, 2012.</p> <p>- H. M. Abbas, I. Khalifa, "Improving Data Replication using Mobility Prediction", International Journal of Engineering Research and Applications (IJERA), Vol. 2, No. 3, 2012.</p>	
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