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				Name: Samah Adel Gamel				Address: Mansoura				Phone contacts:				Email address: sgamel@horus.edu.eg				Google scholar: https://scholar.google.com/citations?user=qBwk30AAAAAJ&hl=ar				Research gate: https://www.researchgate.net/profile/Samah-Adel-Gamel				Web of science: https://www.webofscience.com/wos/author/record/AAZ-9335-2021				ORCID: https://orcid.org/0000-0003-1753-030X				SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=57192639629				Education/ Academic qualifications (start with your most recent education first)				Year	School / University	Specialization	Degree	2022	Mansoura	Computers & control sys. Eng. Dept.	Ph.D.	2017	Mansoura	Computers & control sys. Eng. Dept.	Master	2010	Mansoura	Computers & control sys. Eng. Dept.	B.Sc.	Academic Employment History (start with your most recent education first)				From:	To:	University / Organization	Title of Position	2022	On going	Horus University	Assistant Professor	2021/2022	2022	Mansoura University	Assistant Professor	2021/2022	2022	Misr Higher Institute	Assistant Professor	2017	2021	Mansoura University	Assistant Lecturer	2019	2021	Misr Higher Institute	Assistant Lecturer	2018	2019	Information Technology Institute ITI	Lecturer	2013	2017	Mansoura University	Research Assistant	Administrative Positions:				From:	To:	University / Organization	Title of Position	2025	On going	HUE university	Coordinator for CSE & AIE Programs	2025	On going	HUE university	Quilty Coordinator for CSE & AIE Programs	2025	On going	HUE university	Academic Advising Coordinator for CSE & AIE Programs	2023	2025	HUE university	Director of the E-Services Unit	2022	2025	HUE university	Quilty Coordinator for ECE Program
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				Google scholar: https://scholar.google.com/citations?user=qBwk30AAAAAJ&hl=ar																																																																																																																							
				Research gate: https://www.researchgate.net/profile/Samah-Adel-Gamel																																																																																																																							
				Web of science: https://www.webofscience.com/wos/author/record/AAZ-9335-2021																																																																																																																							
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Signature: SA

Teaching Experience (Courses, Language, Higher Education Only)

- ✓ Fundamentals of Database System
- ✓ Advanced Database system
- ✓ Machine Intelligent
- ✓ Computer Programming using visual basic.net
- ✓ Internet Programming using Html, CSS, Java Script, PHP
- ✓ Computer Programming using Java
- ✓ Computer Programming using C++
- ✓ Computer Programming using C#
- ✓ Data Structure using C#
- ✓ Data Structure using python
- ✓ Data Structure using Java
- ✓ Computer architecture
- ✓ Operating System using Android
- ✓ Statistics Using IBM SPSS
- ✓ Modern Control
- ✓ Distributed system
- ✓ Micro Processor
- ✓ Digital Logic Design 1
- ✓ Digital Logic Design 2
- ✓ Java Programming
- ✓ Algorithms
- ✓ Introduction to computer engineering
- ✓ Computer Engineering
- ✓ Embedded Systems
- ✓ Operating Systems
- ✓ HCI
- ✓ Advanced Programming Using Java
- ✓ Software Engineering
- ✓ Artificial intelligence and its applications
- ✓ Computer Systems Programming

Sample of Publications:

- S. A. Gamel and M. El-Seddek, "Hybrid Deep Learning Framework for White Blood Cell Classification Using Attention-Based Feature Fusion," *2025 International Telecommunications Conference (ITC-Egypt)*, Cairo, Egypt, 2025, pp. 574-579, doi: 10.1109/ITC-Egypt66095.2025.
- Hassan, B.M., Gamel, S.A. & Talaat, F.M. Attention based unified architecture for Arabic text detection on traffic panels to advance autonomous navigation in natural scenes. *Sci Rep* **15**, 34138 (2025).
- Talaat, F.M., Aly, W.F., El-Balka, R.M. *et al.* The role of explainable AI in building trust and acceptance of AI-driven heart disease. *Neural Comput & Applic* **37**, 26383–26409 (2025).
- Gamel, Samah A., Ahmed I. Saleh, and Hesham A. Ali. "A fog-based Traffic Light Management Strategy (TLMS) based on fuzzy inference engine." *Neural Computing and Applications* **34.3** (2022): 2187-2205.
- Saleh, Ahmed I., Samah A. Gamel, and Khaled M. Abo-Al-Ez. "A reliable routing protocol for vehicular ad hoc networks." *Computers & Electrical Engineering* **64** (2017): 473-495.
- Talaat, Fatma M., and Samah A. Gamel. "Predicting the impact of no. of authors on no. of citations of research publications based on neural networks." *Journal of Ambient Intelligence and Humanized Computing* (2022): 1-10.
- Talaat, Fatma M., and Samah A. Gamel. "RL based hyper-parameters optimization algorithm (ROA) for convolutional neural network." *Journal of Ambient Intelligence and Humanized Computing* (2022): 1-11.
- Gamel, Samah A., Ahmed I. Saleh, and Hesham A. Ali. "Machine learning-based traffic management techniques for intelligent transportation system." *Nile journal of communication and computer science* **1.1** (2021): 9-18.
- Gamel, Samah A., and Fatma M. Talaat. "SleepSmart: an IoT-enabled continual learning algorithm for intelligent sleep enhancement." *Neural Computing and Applications* (2023): 1-17.
- Talaat, Fatma M., et al. "Utilizing social media and machine learning for personality and emotion recognition using PERS." *Neural Computing and Applications* **35.33** (2023): 23927-23941.
- Hassan, Esraa, et al. "Robust Deep Learning Model for Black Fungus Detection Based on Gabor Filter and Transfer Learning." *Computer Systems Science & Engineering* **47.2** (2023).
- Khater, Hatem A., and Samah Adel Gamel. "Early diagnosis of respiratory system diseases (RSD) using deep convolutional neural networks." *Journal of Ambient Intelligence and Humanized Computing* **14.9** (2023): 12273-12283.

I do hereby declare that the information furnished above is true to the best of my knowledge.

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Signature:



- Talaat, Fatma M., and Samah A. Gamel. "Predicting the impact of no. Of authors on no. Of citations of research publications based on neural networks." *Journal of Ambient Intelligence and Humanized Computing* 14.7 (2023): 8499-8508.
- Talaat, Fatma M., and Samah A. Gamel. "RL based hyper-parameters optimization algorithm (ROA) for convolutional neural network." *Journal of Ambient Intelligence and Humanized Computing* 14.10 (2023): 13349-13359.
- Talaat, F.M., Gamel, S.A. Machine learning in detection and classification of leukemia using C-NMC_Leukemia. *Multimed Tools Appl* (2023).
- Gamel, S.A., Hassan, E., El-Rashidy, N. *et al.* Exploring the effects of pandemics on transportation through correlations and deep learning techniques. *Multimed Tools Appl* (2023).
- Talaat, Fatma M., and Samah A. Gamel. "A2M-LEUK: attention-augmented algorithm for blood cancer detection in children." *Neural Computing and Applications* (2023): 1-13.
- Siam, A.I., Gamel, S.A. & Talaat, F.M. Automatic stress detection in car drivers based on non-invasive physiological signals using machine learning techniques. *Neural Comput & Applic* **35**, 12891–12904 (2023).
- Gamel, Samah A., and Yara Sultan. "Winds of Power: Data Analysis for the Relationship between Wind Speed, Gust, and Power Output." *Journal of Engineering Research* 7.5 (2023): 189-194.
- Gamel, Samah A., and Hatem Khater. "Enhancing Facial Emotion Recognition with a Modified Deep Convolutional Neural Network." *Journal of Engineering Research* 7.5 (2023): 118-125.
- Shams, M.Y., Gamel, S.A. & Talaat, F.M. Enhancing crop recommendation systems with explainable artificial intelligence: a study on agricultural decision-making. *Neural Comput &*

Other Relevant Experience

Reviewer in the following journals:

- IEEE Access
- International Journal of Intelligent Systems
- Applied Soft Computing Journal
- Expert Systems with Applications
- Air Defense Conference ITC
- E-JUST Conference

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