



Curriculum Vitae

- **Name:** Mostafa Mohamed Abd El-Aziz
- **Title:** Assistant Lecturer
- **Department:** Information Technology
- **E-mail:** mustafa.abdelaziz@su.edu.eg

A) Academic Qualifications:

- Bachelor's Degree in Information Technology University: Sinai University Year: 2010
- Master's Degree in Information Technology University: Zagazig University Year: 2022
- Ph.D. in Information Technology University: Zagazig University Year: 2026

B) Academic promotions:

- Assistant Lecturer, Date: 2022

C) Scientific Merit:

- Google Scholar: Mostafa M.Abd El-Aziz
- Scopes ID: 57533903200
- Citations: 129 h-index: 6 i10-index: 4
- Orcid –N: Mostafa M. Abdel-Aziz (0000-0002-8932-3513)

D) Scientific Activities

1: Training Courses/workshops:

Workshop entitled (Convolutional Neural Network (CNN)-Based Method for Securing Medical images), Sinai University, Arish Campus.

2: Teaching Scopes:

- Digital Multimedia
- Network Based Multimedia
- Digital Signal Processing
- Image Processing
- Information Security

3: Awards and Certificates of Appreciation:

IEEE Authorship and Open Access Symposium, IEEE (2025).

— Research training on scholarly publishing, peer review, and open-access policies.

4: Peer reviewing of scientific research:

Mostafa M. Abdel-Aziz serves as a peer reviewer for more than [21] international scientific journals and has reviewed over [235] research papers. His contributions help evaluate research quality, methodology, and originality.

- Journal Reviewer — [AEÜ - International Journal of Electronics and Communications], 2025–Present.
- Journal Reviewer — [Alexandria Engineering Journal], 2024–Present.
- Journal Reviewer — [Array], 2025–Present.
- Journal Reviewer — [Biomedical Signal Processing and Control], 2024–Present.
- Journal Reviewer — [Computers & Electrical Engineering], 2024–Present.
- Journal Reviewer — [Engineering Science and Technology, an International Journal], 2025–Present.
- Journal Reviewer — [Expert Systems with Applications], 2025–Present.
- Journal Reviewer — [Results in Engineering], 2026–Present.
- Journal Reviewer — [Signal Processing], 2025–Present.
- Journal Reviewer — [Signal Processing: Image Communication], 2025–Present.
- Journal Reviewer — [Scientific Reports], 2024–Present.
- Journal Reviewer — [Quality & Quantity], 2026–Present.
- Journal Reviewer — [Cluster Computing], 2025–Present.
- Journal Reviewer — [Discover Electronics], 2025–Present.
- Journal Reviewer — [Journal of Computer Virology and Hacking Techniques], 2025–Present.
- Journal Reviewer — [Discover Computing], 2025–Present.
- Journal Reviewer — [Peer-to-Peer Networking and Applications], 2025–Present.
- Journal Reviewer — [Signal, Image and Video Processing], 2024–Present.
- Journal Reviewer — [Cognitive Computation], 2024–Present.
- Journal Reviewer — [Journal of Real-Time Image Processing], 2024–Present.
- Journal Reviewer — [IAES International Journal of Artificial Intelligence (IJ-AI)], 2025–Present.

E) Scientific Publications:

-International journals

- [1] M. M. Abdel-Aziz, N. A. Lashin, H. M. Hamza, and K. M. Hosny, “Enhanced security of medical images through fractal box encryption and CNN-driven data hiding method,” *Biomedical Signal Processing and Control*, vol. 115, Art. no. 109427, 2026, doi: 10.1016/j.bspc.2025.109427.
- [2] M. M. Eltoukhy, F. Alsubaei, M. M. Abdel-Aziz, and K. M. Hosny, “RDHNet: Reversible data hiding method for securing colour images using AlexNet and watershed transform in a fusion domain,” *CAAI Transactions on Intelligence Technology*, 2025, doi: 10.1049/cit2.70038.
- [3] A. E. Khedr, M. M. Abdel-Aziz, F. S. Alsubaei, M. M. Eltoukhy, and K. M. Hosny, “Securing color medical images using data hiding method based on modified Octa-PVD and hyperchaotic system,” *Alexandria Engineering Journal*, vol. 125, pp. 133–151, 2025, doi: 10.1016/j.aej.2025.04.025.
- [4] K. M. Hosny, M. M. Abdel-Aziz, N. A. Lashin, and H. M. Hamza, “A new CNN-based watermarking method for color medical images in a fusion domain,” *Neural Computing and Applications*, 2025, doi: 10.1007/s00521-025-11056-1.
- [5] M. W. Abo El-Soud, M. M. Eltoukhy, M. M. Abdel-Aziz, A. Alourani, and K. M. Hosny, “Robust blind watermarking to secure color medical images using multidimensional-FFT fusing LFSR-encryption and LZW compression,” *IEEE Access*, vol. 13, pp. 46054–46069, 2025, doi: 10.1109/ACCESS.2025.3547614.
- [6] M. M. Abdel-Aziz, N. A. Lashin, H. M. Hamza, and K. M. Hosny, “ZWNet: DarkNet53-based zero watermarking method for authentication of medical images inspired by Fibonacci Q-matrix and stationary wavelet transform,” *Biomedical Signal Processing and Control*, vol. 100, pt. A, Art. no. 107044, 2025, doi: 10.1016/j.bspc.2024.107044.
- [7] D. S. Khafaga, M. Alohaly, M. M. Abdel-Aziz, and K. M. Hosny, “Blind video watermarking scheme for medical video authentication,” *Heliyon*, vol. 9, no. 9, Art. no. e19809, 2023, doi: 10.1016/j.heliyon.2023.e19809.

- [8] M. M. Eltoukhy, A. E. Khedr, M. M. Abdel-Aziz, and K. M. Hosny, “Robust watermarking method for securing color medical images using Slant-SVD-QFT transforms and OTP encryption,” Alexandria Engineering Journal, vol. 78, pp. 517–529, 2023, doi: 10.1016/j.aej.2023.07.068.
- [9] M. M. Abdel-Aziz, K. M. Hosny, N. A. Lashin, and M. M. Fouda, “Blind watermarking of color medical images using Hadamard transform and fractional-order moments,” Sensors, vol. 21, no. 23, Art. no. 7845, Nov. 2021, doi: 10.3390/s21237845.
- [10] M. M. Abdel-Aziz, K. M. Hosny, and N. A. Lashin, “Improved data hiding method for securing color images,” Multimedia Tools and Applications, vol. 80, pp. 12641–12670, 2021, doi: 10.1007/s11042-020-10217-9.

- National journals

- [1] M. M. Abdel-Aziz, N. A. Lashin, H. M. Hamza, and K. M. Hosny, “Robust blind watermarking of medical images using ResNet-50 and redundant wavelet transform,” International Journal of Computers and Informatics (Zagazig University), vol. 6, pp. 1–15, 2025. [Online]. Available: <https://www.ijci.zu.edu.eg/index.php/ijci/article/view/90>.

F) Skills

- Language Skills: Very good
- Computer Skills: Excellent
- Presentation skills: Excellent