

 الصورة الشخصية	الاسم	وسام محمد حسن محمد كمال الدين البهيدي
	Name	Wessam Mohamed Hassan Mohamed Kamal El-Din El-Behaidy
	الاسم المستخدم في النشر العلمي	Wessam H. El-Behaidy, Wessam M. H. El-Behaidy Wessam El-Behaidy
	الوظيفة الحالية وجهة العمل	استاذ مساعد بقسم علوم الحاسب- كلية الحاسبات والذكاء الاصطناعي
	الدرجة العلمية (اسم الجامعة والدولة)	استاذ مساعد بجامعة حلوان - مصر
	التخصص العام	علوم الحاسب
	التخصص الدقيق	علوم الحاسب
	البريد الإلكتروني	W_behaidy@fci.helwan.edu.eg W_behaidy@yahoo.com
	المؤهلات العلمية	دكتوراه فلسفية في علوم الحاسب
	السيرة الذاتية	حصلت على درجة البكالوريوس بتقدير ممتاز مع مرتبة الشرف، ودرجة الماجستير في علوم الحاسب من جامعة حلوان (كلية الحاسبات والذكاء الاصطناعي)، القاهرة - مصر. كان عملها في رسالة الماجستير يدور حول استخدام تقنيات الذكاء الاصطناعي وتعلم الآلة للتعرف على الأشخاص من خلال أصواتهم، وقد تم نشر عملها في أحد المؤتمرات القوية؛ وهو المؤتمر القومي لعلوم الراديو (NRSC). أكملت درجة الدكتوراه في عام ٢٠١٢ في علوم الحاسب من جامعة حلوان. وكانت رسالتها تدور حول تحليل أحد بروتينات فيروس التهاب الكبد الوبائي سي – (HCV) وتحديد النمط الجيني ٤ A الشائع في مصر – والتنبؤ بالتركيب ثلاثي الأبعاد له مع تحديد المناطق النشطة على سطحه. وقد نُشرت أربعة أبحاث من عملها في مجلات ومؤتمرات دولية. تشغل حالياً منصب أستاذ مشارك في قسم علوم الحاسب. تتضمن اهتماماتها البحثية مجالات تحليل الصور الطبية، التنبؤ بهياكل البروتينات، التعرف على الأنماط، ورؤية الحاسوب.

Journals

1. Youssef, Alaa & El-Behaidy, Wessam & Youssif, Aliaa. (2025). CancerSeg-XA: Enhanced Breast Cancer Histopathology Segmentation Using Xception Backbone with Attention Mechanisms. Journal of Communications Software and Systems. VOL. 21, NO. 1, pp. 79-89. MARCH 2025.
<https://doi.org/10.24138/jcomss-2024-0113>
2. Waleed Shaban, Wessam El-Behaidy, Wael badawy, 'YOLOv8-Based Fracture Detection System", PREPRINT, 13 December 2024.
<https://doi.org/10.21203/rs.3.rs-5455810/v1>
3. Youssef, A. M., Youssif, A. A. A. and **Behaidy, W. E.** Challenges of Breast Cancer Detection Based on Histopathology Images. Journal of Computer Science, 20(7), 708-721, 2024.
<https://doi.org/10.3844/jcssp.2024.708.721>
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5. Omran, S.M.; **El-Behaidy, W.H.**; Youssif, A.A.A. Optimization of Cryptocurrency Algorithmic Trading Strategies Using the Decomposition Approach. *Big Data Cognitive Computing*, 2023, Vol. 7, issue 4, pp.174.
<https://doi.org/10.3390/bdcc7040174>
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<https://doi.org/10.3390/bdcc7030150>
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10. Aya Saleh Ahmed, **Wessam H. El-Behaidy**, Aliaa A.A. Youssif, "Medical image denoising system based on stacked convolutional autoencoder for enhancing 2-dimensional gel electrophoresis noise reduction," *Biomedical Signal Processing and Control*, Volume 69, 2021, 102842, ISSN 1746-8094,
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<https://www.sciencedirect.com/science/article/pii/S174680942100>

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11. M. Donia, **W. El-Behaidy**, and A. Youssif, "A review on anomalous events detection and recognition," FCI-H Informatics Bulletin, vol. 3, no. 1, pp. 1–7, 2021.
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artificial intelligence techniques for epilepsy treatment," *IOSR Journal of Computer Engineering (IOSR-JCE)*, vol. 12, no. 3, pp. 106–115, 2016.

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Book Chapters

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<http://dx.doi.org/10.12720/ijoe.2.1.1-6>
28. Mahmoud El-Hefnawi, Aliaa Youssif, Atef Ghalwash, and **Wessam El-Behaidy**, "An integrative in silico model of hepatitis c virus non-structural 5a protein," in *International Conference Bioinformatics & Computational Biology (BIOCOMP'09)*, Las Vegas, USA, 2009, pp. 827-833.
29. Aliaa A. Youssif, Ebada A. Sarhan, and **Wessam H. El-Behaidy**, "Development of automatic speaker identification system," in *21st National Radio Science Conference (NRSC 2004)*, 2004. doi:10.1109/NRSC.2004.1321810.

Poster

- M. M. El Hefnawi, W. H. El Behaidy, A. A. Youssif, A. Z. Ghalwash, L. A. El-Housseiny, and S. Zada, "In silico analysis of NS5a protein of HCV: New insights into its immune counteraction mechanisms, and its role in cancer development", **World Summit of Antivirals (WSA), China, July 2008.**

Technical Papers

- Antoin Ashraf Fathi, Baher Youssef, Boula Azmy, John Takla, Karim Fawzy, **Wessam El-Behaidy**, "AI Conceptual Gaming for Game Developers", *FCIH Informatics Bulletin*, vol. 1, no. 3, pp.26-32, 2019.
- Fatema ahmed mohamed, Shaimaa Zaki, Samaa A.Fattah, Hadeer A. Moez, Yasmeen Salah, **Wessam El-Behaidy**, "Traveler Program", *FCIH Informatics Bulletin*, vol. 1, no. 3, pp.33-37, 2019.



Wessam M. Hassan M. Kamal El-Din El-Behaidy

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SHORT BIO:

She obtained her Bachelor's degree with honors and a M.Sc. degree in Computer Science from Helwan University (*the Faculty of Computers and Artificial Intelligence*), Cairo - Egypt. Her M.Sc. work was on employing AI and machine learning techniques for recognizing persons from their voices and her work was published in one of powerful conferences; the National Radio Science Conference (NRSC).

She completed her **Ph.D.** in 2012 in Computer Science from Helwan University. Her thesis was about analyzing one of proteins of hepatitis C virus (HCV) –specially the genotype 4A that was common at Egypt – and predicting its three dimensional structure specifying the active areas on his surface. Four publications were published in international journals and conferences out of her work. She is currently an Associate Professor at the Department of Computer Science.

Her research interests include the areas of medical image analysis, protein structure prediction, pattern recognition, and computer vision.

Scholar link: <https://scholar.google.com/citations?user=N2asGcMAAAAJ&hl=en>

Orcid link: <https://orcid.org/0000-0002-6094-6602>

LANGUAGES

- **Native language:** Arabic.
- **English:** Very good written & spoken.
- **French:** Very good written & spoken.

ACADEMIC DEGREES

- **2021- Until now:** Associate professor in Computer Science dep., faculty of Computers & Artificial Intelligence, Helwan University.
- **2012- 2021:** Assistant professor in Computer Science dep., faculty of Computers & Artificial Intelligence, Helwan University.
- **2000- 2012:** Teacher assistant in Computer Science dep., faculty of Computers & Artificial Intelligence, Helwan University.

POSITIONS:

- **2023-2024:** Vice dean for Community and Environmental Affairs.
- **2022-2023:** “Coordinator” of Data Science Program and supervisor on all other postgraduate programs.
- **Jul. 2022:** Participate in the 5th round of “Artificial Intelligence Olympics”, as one of judges.
- **2021-2022:** Faculty representative in "Anti-Corruption" Committee.

- **11/2018 until 1/2020:** Head of “Student Measurement and Assessment” Unit of Faculty of Computers and Artificial Intelligence, Helwan University.
- **8/2018-11/2018:** Vice of “Student Measurement and Assessment” Unit of Faculty of Computers and Artificial Intelligence, Helwan University.
- **2016-2017:** “Secretary” of the Council of Faculty of Computers & Artificial Intelligence, Helwan University.
- **2012 - 2014:** “Secretary” of the Council of Computer Science department.

WORK EXPERIENCE:

I had taught courses related to:

- **Artificial Intelligence:** Introduction to AI, machine learning, and deep learning.
- **Hardware courses:** Digital logic design and computer architecture.
- **Data structures and Algorithms** with complexity analysis.
- **Programming** (C, C++, and python) from the basics to advanced topics.

PUBLICATIONS

Journals

1. Youssef, Alaa & El-Behaidy, Wessam & Youssif, Aliaa. (2025). CancerSeg-XA: Enhanced Breast Cancer Histopathology Segmentation Using Xception Backbone with Attention Mechanisms. Journal of Communications Software and Systems. VOL. 21, NO. 1, pp. 79-89. MARCH 2025. <https://doi.org/10.24138/jcomss-2024-0113>
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5. Omran, S.M.; **El-Behaidy, W.H.**; Youssif, A.A.A. Optimization of Cryptocurrency Algorithmic Trading Strategies Using the Decomposition Approach. *Big Data Cognitive Computing*, 2023, Vol. 7, issue 4, pp.174. <https://doi.org/10.3390/bdcc7040174>
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- 2021, 102842, ISSN 1746-8094, <https://doi.org/10.1016/j.bspc.2021.102842>. (<https://www.sciencedirect.com/science/article/pii/S1746809421004390>)
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Book Chapters

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Poster

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