Amr S. Ghoneim, Ph.D.
Associate Professor | Computer Science Dept. | Faculty of Computing & Artificial Intelligence | Helwan Uni. | Cairo-Egypt.
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EDUCATION [ACADEMIC QUALIFICATIONS]

University of New South Wales at the Australian Defence Force Academy, Canberra, ACT, Australia
Ph.D. in Computer Science (by Research)
Thesis: "On Competency Awareness of Go Players: A Computational Approach"

Computer Science Dept., Faculty of Computing & Artificial Intelligence, Helwan Uni., Cairo, Egypt
M.Sc. in Computer Science (by Research)
Thesis: "Artificial Intelligence Techniques for Ocular Pattern Classification"

Computer Science Dept., Faculty of Computing & Artificial Intelligence, Helwan Uni., Cairo, Egypt
Pre-M.Sc. in Computer Science (Courses + Research)
Thesis: "Lecture Timetabling using Genetic Algorithms"

Computer Science Dept., Faculty of Computing & Artificial Intelligence, Helwan Uni., Cairo, Egypt
B.Sc. Honours in Computer Science and Information Systems
Areas of Concentration: Computer Science
Minor: Information Systems
Degree Grade: Excellent with Honours – Class Rank: Second
Graduation Project/Honours Thesis: "Automatic Speaker Recognition" – Grade: Excellent.

ACADEMIC EMPLOYMENT [TEACHING & RESEARCH]

Computer Science Department, Faculty of Computing & Artificial Intelligence, Helwan University, Cairo, Egypt

Associate Professor of Computer Science [**June 2025 – Current**]

Assistant Professor of Computer Science

Designed and taught the UG academic modules: Artificial Intelligence, Introduction to Computer Graphics, Introduction to Computer Science, Programming Languages 1, Software Engineering & Design Patterns, Computational Intelligence, Evolutionary Algorithms, Data Science & Data Mining. In addition to the modules AI & Logic Programming (Faculty of Science) and Introduction to Computing (Faculty of Nursing).

For PG Studies, designed and taught modules: Machine Learning (Computational Linguistics M.Sc. Program) and Research Methods (Cyber-Security M.Sc. Program). Software Engineering & Human-Computer Interaction (Software Engineering Diploma Program), and Computer Programming Languages (Cyber-Security Diploma Program). In addition to Computing for M.Sc. Degree (Faculty of Home Economics) and an Introduction to Artificial Intelligence (Applied Radiological Physics PhD Program at the Faculty of Science).

International Students Bureau, Helwan University, Cairo, Egypt [**May 2015 – 2020**]
Vice-Director of the International Students Bureau **– for Study Programs and Research Communication**

School of Engineering and Information Technology, UNSW@ADFA, Canberra, ACT, Australia
Casual Teaching/Casual Research Assistant – for academic courses: Programming Fundamentals.

Computer Science Dept., Faculty of Computing & Artificial Intelligence, Helwan University, Cairo, Egypt
Teaching Assistant/Instructor – for academic courses: Artificial Intelligence and Machine Learning, Networks, Digital Signal Processing, Digital Image Processing, and Pattern Recognition.
Developed (or collaborated on the development of) syllabus, overall course structure, and exams. Instructed weekly lab practicum. Administered all grades. Supervised course projects & graduation projects.

SUPPLEMENTARY RELATED PROFESSIONAL EXPERIENCE & TRAINING

- Attended the 10th University Leadership and Management Training Programme (UNILEAD) organised by the DAAD at the **University of Oldenburg** (**Germany**) for young University Leaders within the field of Higher Education Management.
- Attended and completed the 9th Staff Training Week (Partner Countries) organised by the **University of Granada** (**Spain**) within the framework of the Erasmus+ Programme.
- Completing and Participating in the Graduate Teacher Training Program, School of Engineering and Information Technology, **UNSW at ADFA**, Canberra, ACT, **Australia**.
- Serving the **UNSW at ADFA** (Canberra, **Australia**) as a Peer-Mentor, volunteering with Student Administrative Services and attending a training course conducted by an International Liaison Officer.

AWARDS & SCHOLARSHIPS

- The University International Postgraduate Award (UIPA) to study towards a PhD at the School of Engineering & Information Technology, the Australian Defence Force Academy (ADFA) [valued at AU$ 21,200 per annum]
- The 1st Place Winning Postgraduate [Best Thesis] in the MIA "Made-In-the-Arab World" Competition – Organized by the Arab League & the Arab Academy for Science and Technology (ASTF) – Cairo, Egypt [at the rate of US$ 7,000].
- The 1st Place Winning Postgraduate [Best Thesis] in the MIE "Made-In-Egypt" Competition – Organised by the IEEE-Egypt Gold Section – Cairo, Egypt [at the rate of EG£ 5,000].
- Helwan University High Impact Publication Awards for the following publications:
  - "Optic Disc Detection from Normalized Digital Fundus Images by Means of a Vessels' Direction Matched Filter".
  - "Unlocking the Potential of RNN and CNN Models for Accurate Rehabilitation Exercise Classification on Multi-Datasets."
  - "Fusing CNNs and Attention-Mechanisms to improve Real-time Indoor Human Activity Recognition for Classifying Home-based Physical Rehabilitation Exercises."

CURRENT AREAS OF RESEARCH INTEREST

- Artificial Intelligence, Artificial Neural Networks, Computational Intelligence, Evolutionary Algorithms, and Optimsation.
- Machine Learning, Ensemble Learning, Hybrid Architectures, Feature Engineering, and Data Mining.
- Pattern Recognition, Network Motifs, Deep Learning, Transformers, and Attention Mechanisms.
- Competency and Situation Awareness, Computational Psychology, and Computational Cognition.
- Strategic Decision-Making and Neural Network Strategies.
- NLP, Summarisation, Text Simplification, Captioning, Code-Switching/Mixing, and Large/Small Language Models.
- Multimodal Systems, Activity Recognition, Real-time Systems, and Deepfake Detection.
- Applications: Board Games, Decision Making, Biometrics, Computer Vision, Software Eng. & Linguistics.
- Applications: Image Processing (Medical), Image analysis, Super-Resolution, Spoofing Detection, and Thermography.
- Applications: AI in Education, Student Performance Prediction, and Pronunciation Learning.

SELECTED PUBLICATIONS | **H-INDEX: 10** | **I10-INDEX: 10** | **CITATIONS: ~970** [IN **JUNE 2025**]

In Peer-Reviewed Journals [**Q1** and **Q2**]**:**

- "Optic Disc Detection from Normalized Digital Fundus Images by Means of a Vessels' Direction Matched Filter." IEEE Transactions on Medical Imaging, vol. 27, no. 1, pp. 11–18, Jan. 2008.
- "Unlocking the Potential of RNN and CNN Models for Accurate Rehabilitation Exercise Classification on Multi-Datasets." Multimedia Tools and Applications, 2024, 1–41.
- "DB-CBIL: A DistilBert-Based Transformer Hybrid Model Using CNN and BiLSTM for Software Vulnerability Detection." IEEE Access, 2024.
- "Multi-Modal Hybrid Hierarchical Classification Approach with Transformers to Enhance Complex Human Activity Recognition." Signal, Image and Video Processing, Springer Nature, 2024.
- "Fusing CNNs and Attention-Mechanisms to improve Real-time Indoor Human Activity Recognition for Classifying Home-based Physical Rehabilitation Exercises." Computers in Biology and Medicine 184 (2025): 109399.

- "Rehabilitation Monitoring and Assessment: A Comparative Analysis of Feature Engineering and Machine Learning Algorithms on the UI-PRMD and KIMORE Benchmark Datasets". Journal of Information and Telecommunication, Taylor & Francis (2025): pp. 1–21. DOI: https://doi.org/10.1080/24751839.2025.2454053
- "A study of adaptive population sizing in a self-adaptive differential evolution." Results in Control and Optimization (2025): Volume 20, DOI: https://doi.org/10.1016/j.rico.2025.100585

Book Chapters:

- "Evolutionary Computing and Nature-Based Solutions for Personalized Health: Natural Inspirations for Wellness Optimisation." Harnessing AI and Machine Learning for Precision Wellness, edited by Joyeta Ghosh, et al., IGI Global Scientific Publishing, 2025, pp. 243-298. DOI: https://doi.org/10.4018/979-8-3693-9521-9.ch010

In International Conference Proceedings:

- "Development of a Multimodal Framework for Deepfake Detection: Combining Visual and Audio Analysis." Proceedings of the 10th World Congress on Electrical Engineering and Computer Systems and Sciences (EECSS'24) - **Barcelona**, **Spain**, Machine Vision & Machine Learning MVML24, 2024.
- "Visible/Infrared Face Spoofing Detection Using Texture Descriptors." Vol. 292. MATEC Web of Conferences, 23rd Int. Conference on Circuits, Systems, Communications and Computers (CSCC), **Athens**, **Greece** (July 14-17). EDP Sciences, 2019.
- "Single Image Super Resolution: A Comparative Study". AIRCC Computer Science & Information Technology, 7th Int. Conference on Computer Science, Engineering and Applications (CCSEA), **Dubai**, **UAE** (Jan. 28-29), 2017.
- "A Methodology for Revealing and Monitoring the Strategies Played by Neural Networks in Mind Games." Proceedings of the 2012 International Joint Conference on Neural Networks (IJCNN), at the 2012 IEEE World Congress on Computational Intelligence (WCCI'12), **Brisbane**, **Australia**, June 10-15.
- "On Computations and Strategies for Real and Artificial Systems." In Advances in Artificial Life, ECAL 2011: Proceedings of the Eleventh European Conference on the Synthesis and Simulation of Living Systems, edited by Tom Lenaerts, Mario Giacobini, Hugues Bersini, Paul Bourgine, Marco Dorigo and René Doursat, pp. 260–267, 8–12 August 2011, **Paris**, **France**. MIT Press.
- "Competency Awareness in Strategic Decision Making." Proc. of the IEEE 1st International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA), pp. 106–109, 22–24 Feb. 2011, **Miami Beach**, **FL**, **USA**. IEEE Press.
- "A Comparative Evaluation of Preprocessing Methods for Automatic Detection of Retinal Anatomy." Proc. of the 5th International Conf. on Informatics and Systems (INFOS2007), pp. 24-31, **Cairo**, **Egypt**, March 24-26, 2007.
- "Comparative Study of Contrast Enhancement and Illumination Equalization Methods for Retinal Vasculature Segmentation." Proc. of 3rd Cairo International Biomedical Eng. Conf. (CIBEC'06), **Cairo**, **Egypt**, Dec. 21-24, 2006.

SELECTED REVIEWING ACTIVITIES

In Journals:

- IEEE Access
- EURASIP Journal on Image and Video Processing
- IEEE Journal of Biomedical and Health Informatics
- Signal, Image and Video Processing (Springer Nature)

In Conferences:

- Technical Program Committee - IEEE International Conference on Communications (ICC 2012), Ottawa, Canada, June 2012.
- The 10th International Conference on Informatics and Systems (INFOS 2016), Cairo, Egypt, May 2016.
- Program Committee - The 20th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2016), Canberra, Australia, November 2016.
- Program Committee - The 21st Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2017), Hanoi, Vietnam, November 2017.

RESEARCH/TRAVEL GRANTS & FUNDED PROJECTS

- [from Dec. 2015 to Dec. 2016] The Primary Investigator of KetApp; a research project funded by an Advanced Research Projects (ARP) grant [1 million EGP]. This grant is within the Information Technology Academia Collaboration (ITAC) Program and funded by the Information Technology Industry Development Agency (ITIDA). The fund supported the development of an innovative mechanism to understand students' interactions with electronic educational content & their mapping to the intended learning outcome.
- [from Oct. 2015 to June. 2016] A funded researcher in (A Robust Facial image enhancement software for Real-World Applications); a research project funded by an ASRT (Academy of Scientific Research & Technology) 2015 Initiative grant [of 1 million EGP]. The fund supported the introduction of an image processing solution for three types of turbid facial images (namely, illumination variation, blurring and long-distance images acquired).

TECHNICAL [COMPUTER] SKILLS

Languages

- Proficient in: Matlab, C/C++.
- Familiar with: Java, C#, Visual Basic, Visual C++, Visual Prolog.

Software

- Database: Microsoft SQL Server and Microsoft Access.

LANGUAGES

- Arabic – Native proficiency.
- English – Full professional proficiency; speaks fluently and reads/writes with high proficiency.
    - Latest IELTS test score [Listening: 9, Speaking: 8, Reading: 8, and Writing: 7.5].

قائمة بمُجْمَل الإنتاج العلمي للأستاذ مساعد بقسم علوم الحاسب
دكتور/ عمرو أحمد صبري عبدالرحمن غنيم

محمل الإنتاج العلمي: ٣٨

Google Scholar: https://scholar.google.com/citations?user=0r1HKREAAAAJ&hl=en
Citations: 984 [*in* Aug. 2025]
h-index: 10
i10-index: 11
ORCID: https://orcid.org/0000-0003-3522-4875

قائمة بالنشر العلمي خلال درجة أستاذ مساعد

1. Budiman, Haldi, Shir Li Wang, Theam Foo Ng, Amr S. Ghoneim, Haidi Ibrahim, and Bahbibi Rahmatullah. "A Study of Adaptive Population Sizing in a Self-Adaptive Differential Evolution." *Results in Control and Optimization* (2025): 100585.

قائمة بالنشر العلمي خلال درجة مدرس

2. Aliaa Youssef, Sameh Zarif, and Amr Ghoneim. *Single Image Super Resolution: A Comparative Study*. AIRCC Computer Science & Information Technology, 7th International Conference on Computer Science, Engineering and Applications (CCSEA), Dubai - UAE (January 28-29), 2017.

3. Wael E. Fathy, Amr S. Ghoneim, Sameh Zarif, and Aliaa A. Youssif. 'Benchmarking of Pre-Processing Methods Employed in Facial Image Analysis'. *Journal of Image and Graphics* 6, no. 1 (2018): 1–9.

4. Wael E. Fathy, and Amr S. Ghoneim. 'A Deep Learning Approach for Breast Cancer Mass Detection'. *International Journal of Advanced Computer Science and Applications* 10, no. 1 (2019).

5. Mohamed M. Adly, Amr S. Ghoneim, and A. Aliaa Youssif. 'On the Grading of Diabetic Retinopathies Using a Binary-Tree-Based Multiclass Classifier of CNNs'. *International Journal of Computer Science and Information Security (IJCSIS)* 17, no. 1 (2019).

6. Shaimaa Mohamed, Amr Ghoneim, and Aliaa Youssif. *Visible/Infrared Face Spoofing Detection Using Texture Descriptors*. Vol. 292. MATEC Web of Conferences, 23rd International Conference on Circuits, Systems, Communications and Computers (CSCC), Athens - Greece (July 14-17). EDP Sciences, 2019.

7. Aly Mostafa, Omar Mohamed, Ali Ashraf, Ahmed Elbehery, Salma Jamal, Ghada Khoriba, and Amr S. Ghoneim. *OCFormer: A Transformer-Based Model For Arabic Handwritten Text Recognition*.

2021 International Mobile, Intelligent, and Ubiquitous Computing Conference (MIUCC). IEEE, 2021.

8. Ahmed Bahaa, Aya El-Rahman Kamal, and Amr Ghoneim. 'A Systematic Literature Review on Software Vulnerability Detection Using Machine Learning Approaches'. *Informatics Bulletin, Faculty of Computers and Artificial Intelligence (FCI-H Informatics Bulletin)* 4, no. 1 (2022): 1–9.

9. Hossam Hassan, Manal A. Abdel-Fattah, and Amr Ghoneim. 'Risk Prediction Applied to Global Software Development Using Machine Learning Methods'. *International Journal of Advanced Computer Science and Applications* 13, no. 9 (2022).

10. Mohsen A. Hassan, Aliaa A. A. Youssif, Osama Imam, and Amr S. Ghoneim. 'Robo Advisory: On Using XGBoost Algorithms for Customer's Wealth and Portfolio Management'. *International Journal of Scientific Engineering and Applied Science (IJSEAS)* 8, no. 5 (2022): 240–47.

11. Mohsen A. Hassan, Aliaa A. A. Youssif, Osama Imam, and Amr S. Ghoneim. 'Comparison Study: On Using Machine and Deep Learning Approaches to Compare Performance and Prediction Error Rates for Stock Price'. *International Journal of Scientific Engineering and Applied Science (IJSEAS)* 8, no. 5 (2022): 151–62.

12. Mohsen A. Hassan, Aliaa A. A. Youssif, Osama Imam, and Amr S. Ghoneim. 'On the Impact of News for Reliable Stock Market Predictions: An LSTM-Based Ensemble Using FinBERT Word-Embeddings'. *WSEAS Transactions on Computers* 21 (2022): 294–303.

13. Hossam Hassan, Manal A. Abdel-Fattah, and Amr Ghoneim. 'Risk Prediction Using Machine Learning Techniques in the Domain of Global Software Development: A Review'. *Informatics Bulletin, Faculty of Computers and Artificial Intelligence (FCI-H Informatics Bulletin)* 5, no. 1 (2023): 7–15.

14. Moamen Zaher, Ahmed Samir, Amr Ghoneim, Laila Abdelhamid, and Ayman Atia. *A Framework for Assessing Physical Rehabilitation Exercises*. 2023 Intelligent Methods, Systems, and Applications (IMSA). IEEE, 2023.

15. Mustafa Ezzeldin, Amr S. Ghoneim, Laila Abdelhamid, and Ayman Atia. *On Understanding Sports–HAR: Hierarchical, Mobile, Multi-Sensor Based Classification of Table–Tennis Strokes*. 2023 Intelligent Methods, Systems, and Applications (IMSA). IEEE, 2023.

16. Basant Ali Sayed, Ahmed Sharaf Eldin, Doaa Saad Elzanfaly, and Amr S. Ghoneim. *A Comprehensive Review of Breast Cancer Early Detection Using Thermography and Convolutional Neural Networks*. 2023 International Conference on Computer and Applications (ICCA). IEEE, 2023.

17. Ahmed Bahaa, Aya El-Rahman Kamal, Hanan Fahmy, and Amr S. Ghoneim. 'DB-CBIL: A DistilBert-Based Transformer Hybrid Model Using CNN and BiLSTM for Software Vulnerability Detection'. *IEEE Access*, 2024.

18. Moamen Zaher, Amr S. Ghoneim, Laila Abdelhamid, and Ayman Atia. 'Unlocking the Potential of RNN and CNN Models for Accurate Rehabilitation Exercise Classification on Multi-Datasets'. *Multimedia Tools and Applications*, 2024, 1–41.

19. Moamen Zaher, Amr Ghoneim, Laila Abdelhamid, and Ayman Atia. 'Artificial Intelligence Techniques in Enhancing Home-Based Rehabilitation: A Survey'. *Informatics Bulletin, Faculty of Computers and Artificial Intelligence (FCI-H Informatics Bulletin)* 6, no. 2 (2024): 16–30.

20. Ahmed Ashraf Bekheet, Ghada Khoriba, and Amr S. Ghoneim. *Development of a Multimodal Framework for Deepfake Detection: Combining Visual and Audio Analysis*. Proceedings of the 10th World Congress on Electrical Engineering and Computer Systems and Sciences (EECSS'24) - Barcelona, Spain, Machine Vision & Machine Learning MVML24, 2024.

21. Ahmed Ashraf Bekheet, Amr S. Ghoneim, and Ghada Khoriba. *A Comprehensive Comparative Analysis of Deepfake Detection Techniques in Visual, Audio, and Audio-Visual Domains*. 2024 Intelligent Methods, Systems, and Applications (IMSA). IEEE, 2024.

22. Mustafa Ezzeldin, Amr S. Ghoneim, Laila Abdelhamid, and Ayman Atia. 'Multi-Modal Hybrid Hierarchical Classification Approach with Transformers to Enhance Complex Human Activity Recognition'. *Signal, Image and Video Processing*, Springer Nature, 2024.

23. Mishalini Chandran, Shir Li Wang, Sumayyah Dzulkifly, Theam Foo Ng, and Amr S. Ghoneim. 'Enhancing English Pronunciation Learning in Primary Education through Natural Language Processing: A Quantitative Study'. *Journal of ICT in Education (JICTIE)*, 11(2), pp. 1–17, 2024. DOI: 10.37134/jictie.vol11.2.1.2024.

24. Mustafa Ezzeldin, Amr S. Ghoneim, Laila Abdelhamid, and Ayman Atia. 'Survey on Multimodal Complex Human Activity Recognition'. *Informatics Bulletin, Faculty of Computers and Artificial Intelligence (FCI-H Informatics Bulletin)* 7, no. 1 (2025): 26–44.

25. Noor Fadzilah Ab Rahman, Shir Li Wang, Theam Foo Ng, and Amr S. Ghoneim. 'Artificial Intelligence in Education: A Systematic Review of Machine Learning for Predicting Student Performance'. *Journal of Advanced Research in Applied Sciences and Engineering Technology*, Volume 54, Issue 1 (2025) 198-221: https://doi.org/10.37934/araset.54.1.198221

26. Basant Ali Sayed, Ahmed Sharaf Eldin, Doaa Saad Elzanfaly, and Amr S. Ghoneim (2025). 'Breast Cancer Detection using Thermography and Convolutional Neural Networks (CNNs)'. In: Hassanien, A.E., Rizk, R.Y., Darwish, A., Alshurideh, M.T.R., Snášel, V., Tolba, M.F. (eds) *Proceedings of the 11th International Conference on Advanced Intelligent Systems and*

Informatics (AISI 2025). *Lecture Notes on Data Engineering and Communications Technologies*, vol. 238, pp. 169–181. Springer, Cham. https://doi.org/10.1007/978-3-031-81308-5_16

27. Moamen Zaher, Amr S. Ghoneim, Laila Abdelhamid, and Ayman Atia. 'Fusing CNNs and attention-mechanisms to improve real-time indoor Human Activity Recognition for classifying home-based physical rehabilitation exercises'. *Computers in Biology and Medicine*, 184 (2025): 109399.

28. Ahmed Ashraf Bekheet, Ghada Khoriba, and Amr S. Ghoneim. 'Unmasking the Digital Deception: A Comprehensive Survey of Large Vision Models (LVMs) for Deepfake Detection'. *Informatics Bulletin, Faculty of Computers and Artificial Intelligence (FCI-H Informatics Bulletin)*, Vol. 7 – Issue 2 (July 2025).

29. Moamen Zaher, Amr S. Ghoneim, Laila Abdelhamid, and Ayman Atia. 'Rehabilitation Monitoring and Assessment: A Comparative Analysis of Feature Engineering and Machine Learning Algorithms on the UI-PRMD and KIMORE Benchmark Datasets'. *Journal of Information and Telecommunication,* Taylor & Francis (2025): pp. 1–21. DOI: 10.1080/24751839.2025.2454053

30. Ghoneim, A. S. (2025). Evolutionary Computing and Nature-Based Solutions for Personalized Health: Natural Inspirations for Wellness Optimisation. In J. Ghosh, F. Andres, H. Ali, A. Pester, & S. Tanabe (Eds.), Harnessing AI and Machine Learning for Precision Wellness (pp. 243-298). IGI Global Scientific Publishing. https://doi.org/10.4018/979-8-3693-9521-9.ch010

قائمة بالنشر العلمي خلال درجة الدكتوراه

31. Amr S. Ghoneim, Daryl L. Essam, and Hussein A. Abbass. *Competency Awareness in Strategic Decision Making*. IEEE First International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA), Miami Beach, FL - USA (22-24 February). IEEE, 2011.

32. Amr S. Ghoneim, Daryl L. Essam, and Hussein A. Abbass. *On Computations and Strategies for Real and Artificial Systems*. The Eleventh European Conference on the Synthesis and Simulation of Living Systems - Back to the Origins of Alife (ECAL 2011), Paris - France, (August 8-12). MIT Press, 2011.

33. Amr S. Ghoneim and Daryl L. Essam. *A Methodology for Revealing and Monitoring the Strategies Played by Neural Networks in Mind Games*. The 2012 International Joint Conference on Neural Networks (IJCNN 2012) at the 2012 IEEE World Congress on Computational Intelligence (IEEE-WCCI 2012), Brisbane - Australia (June 10-15). IEEE, 2012.

34. Amr S. Ghoneim. *On Competency of Go Players: A Computational Approach* (Doctoral dissertation, UNSW Canberra), 2012. DOI: https://doi.org/10.26190/unsworks/15670

قائمة بالنشر العلمي خلال درجة الماجستير

35. Aliaa A. A.Youssif, Atef Z. Ghalwash, and Amr S. Ghoneim. *Comparative Study of Contrast Enhancement and Illumination Equalization Methods for Retinal Vasculature Segmentation*. Proceedings of the Third Cairo International Biomedical Engineering Conference (CIBEC'06), Cairo - Egypt, 2006.

36. Aliaa A. A.Youssif, Atef Z. Ghalwash, and Amr S. Ghoneim. *A Comparative Evaluation of Preprocessing Methods for Automatic Detection of Retinal Anatomy*. Proceedings of the 5th International Conference on Informatics and Systems (INFOS2007), 2007.

37. Aliaa Abdel-Razik Youssif, Atef Zaki Ghalwash, and Amr S. Ghoneim. 'Optic Disc Detection from Normalized Digital Fundus Images by Means of a Vessels' Direction Matched Filter'. *Medical Imaging, IEEE Transactions On* 27, no. 1 (2008): 11–18.

38. Amr S. Ghoneim. *Artificial Intelligence Techniques for Ocular Pattern Classification* (Masters dissertation, Helwan University), 2007.

الاسم	عمرو أحمد صبري عبدالرحمن غنيم	**الصورة الشخصية** 
Name	Amr Ahmed Sabry Abdelrahman Ghoneim	
الاسم المستخدم فى النشر العلمى	Amr S. Ghoneim	
الوظيفة الحالية وجهة العمل	أستاذ مساعد بقسم علوم الحاسب كلية الحاسبات والذكاء الاصطناعي	
الدرجة العلمية (اسم الجامعة والدولة)	دكتوراه في علوم الحاسب جامعة نيو ساوث ويلز فرع كانبرا أستراليا	
التخصص العام	علوم الحاسب	
التخصص الدقيق	الذكاء الاصطناعي وتعلم الآلة	
البريد الإلكترونى	amr.ghoneim@fci.helwan.edu.eg	
المؤهلات العلمية	دكتوراه في علوم الحاسب ماجستير في علوم الحاسب بكالوريوس الحاسبات والمعلومات	
السيرة الذاتية	مرفق ملف السيرة الذاتية	
الأبحاث المنشورة	مرفق ملف به قائمة بكافة الأبحاث المنشورة	
الجوائز	المركز الأول في مسابقة الدراسات العليا [أفضل رسالة] في مسابقة MIA "صنع في العالم العربي" - بتنظيم من جامعة الدول العربية والأكاديمية العربية للعلوم والتكنولوجيا (ASTF)، القاهرة، مصر المركز الأول في مسابقة الدراسات العليا [أفضل رسالة] في مسابقة" MIE صنع في مصر" - بتنظيم من قسم IEEE مصر الذهبي - القاهرة، مصر.	