

	Contact Information		
	Name: Hatem Khater		
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	Google scholar: Professor (Associate) Dr/ Hatem Khater - الباحث العلمي من Google		
	Research gate: Hatem KHATER Professor (Associate) Doctor of Computer and Electronic Engineering Research profile (researchgate.net)		
	Web of science: AAO-7790-2020		
	ORCID: 0000-0003-3453-5145		
SCOPUS: 55332288600			
Education/ Academic qualifications (start with your most recent education first)			
Year	School / University	Specialization	Degree
2008	Kent University, UK	Computer Engineering and Systems	PhD
1999	Alexandria University	Electrical Eng.	MS.C
1992	Military Technical College	Electrical Eng.	BS.C
Academic Employment History (start with your most recent education first)			
From:	To:	University / Organization	Title of Position
2019	On going	HUE	Associate Prof.
2008	2019	AASTMT	Assistant Prof.
2005	2008	Kent University	Assistant Lecturer
Administrative Positions:			
From:	To:	University / Organization	Title of Position
2021	On going	HUE	Vice Dean of the Faculty of Engineering
2019	2021	HUE	Head of Mechatronics Dept.
Teaching Experience (Courses, Language, Higher Education Only)			

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

Name: Hatem Khater

Signature:



- **Advanced Programming Techniques**
- **Software Engineering**
- **Advanced Electronics**
- **Artificial Intelligence**
- **Computer Networks**
- **Computer Security**

Publications:

Identify type of publication: book, refereed article, book chapter, journal article, non-refereed paper, major report, technical reports, research funds/grants

- 1- Saleh, S.S.; Alansari, I.S.; Farouk, M.; Hamiaz, M.K.; Ead, W.; Tarabishi, R.A.; Khater, H.A. An Optimized Hierarchical Cluster Formation Approach for Management of Smart Cities. *Appl. Sci.* 2023, *13*, 13143. <https://doi.org/10.3390/app132413143>
- 2- Safa'a S. Saleh, Iman Sadek Alansari, Mounira Kezadri Hamiaz, Waleed Ead, Rana A. Tarabishi, Mohamed Farouk, Hatem A. Khater, I-OPC: An intelligent optimal path computation system using critical path prediction and deep learning for a time-sensitive network, *Alexandria Engineering Journal*, Volume 84, 2023, Pages 138-152, ISSN 1110-0168, <https://doi.org/10.1016/j.aej.2023.10.025>.
- 3- Saleh, S.S.; Alansari, I.S.; Hamiaz, M.K.; Ead, W.; Tarabishi, R.A.; Farouk, M.; Khater, H.A. ODCS: On-Demand Hierarchical Consistent Synchronization Approach for the IoT. *Electronics* 2023, *12*, 4708. <https://doi.org/10.3390/electronics12224708>
- 4- Mahmoud A. A. Mousa; Abdelrahman Tarek Elgohr; Hatem Khater. "Path Planning for a 6 DoF Robotic Arm Based on Whale Optimization Algorithm and Genetic Algorithm". *Journal of Engineering Research*, *7*, *5*, 2023, 160-168. doi: 10.21608/erjeng.2023.237586.1256
- 5- Sayed Abuanwar; Mohammed Saeed; Hanan Mosalem; Hatem Khater. "Recurrent Neural Networks RNNs and Decision Tree DT Machine Learning-Based Approaches For Transmission System Faults Diagnosis". *Journal of Engineering Research*, *7*, *5*, 2023, 67-76. doi: 10.21608/erjeng.2023.233286.1224
- 6- safaa saleh; Iman Alnsari; Waleed Ead; Hattem A. Khatter. "Gat2Get: A Novel Approach to Infer Gene Regulatory Network from Gene Activity using Dynamic Bayesian Network learning". *Port-Said Engineering Research Journal*, *27*, *1*, 2023, 87-97. doi: 10.21608/pserj.2023.186705.1213
- 7- Samah A. Gamel; Hatem Khater. "Enhancing Facial Emotion Recognition with a Modified Deep Convolutional Neural Network". *Journal of Engineering Research*, *7*, *5*, 2023, 118-125. doi: 10.21608/erjeng.2023.237058.1248

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- 8- Safa'a S. Saleh, Iman Alansari, Mounira Kezadri Hamiaz, Waleed Ead, Rana A. Tarabishi, Hatem Khater, iFogRep: An intelligent consistent approach for replication and placement of IoT based on fog computing, *Egyptian Informatics Journal*, Volume 24, Issue 2, 2023, Pages 327-339, ISSN 1110-8665, <https://doi.org/10.1016/j.eij.2023.05.003>.
- 9- Marwa EL-Geneedy, Hossam El-Din Moustafa, Fahmi Khalifa, Hatem Khater, Eman AbdElhalim, An MRI-based deep learning approach for accurate detection of Alzheimer's disease, *Alexandria Engineering Journal*, Volume 63, 2023, Pages 211-221, ISSN 1110-0168, <https://doi.org/10.1016/j.aej.2022.07.062>.
- 10- Rizka, Mohamed & Hamed, Mohamed & Khater, Hatem. (2023). An Intelligent Malware Classification Model Based on Image Transformation. *International Journal of Advanced Computer Science and Applications*. 14. 10.14569/IJACSA.2023.0140790.
- 11- Abdallah Usama; Mohamed Dora; Mohamed Elhadidy; Hatem Khater; Omar Alkelany. "First Person View Drone - FPV". *The International Undergraduate Research Conference*, 5, 5, 2021, 437-440. doi: 10.21608/iugrc.2021.246400
- 12- Mohamed, H.G.; Khater, H.A.; Moussa, K.H. An Intelligent Combined Visual Navigation Brain Model/GPS/MEMS-INS/ADSCF Method to Develop Vehicle Independent Guidance Solutions. *Micromachines* 2021, 12, 718. <https://doi.org/10.3390/mi12060718>
- 13- Moustafa, Mohammed & Elragal, Hassan & Mohammed, Mohammed & Khater, Hatem & Ali, Hager. (2021). A Fuzzy Interactive BI-objective Model for SVM to Identify the Best Compromise Solution for Measuring the Degree of Infection With Corona Virus Disease (Covid-19). *International Journal of Fuzzy Logic Systems*. 11. 13-22. 10.5121/ijfls.2021.11102.
- 14- Abdullah Farid, A.; khater, H.; selim, G. A CNN Classification Model For Diagnosis Covid19. *Preprints* 2020, 2020070591. <https://doi.org/10.20944/preprints202007.0591.v1>
- 15- Khater, Hatem & Elsayed, Ashraf & El-shoafy, Noha. (2020). Improved Navigation and Guidance System of AUV Using Sensors Fusion. *Journal of Communications*. 15. 455-468. 10.12720/jcm.15.6.455-468.
- 16- Moustafa, Mohammed & Mohammed, Mohammed & Khater, Hatem. (2020). Building A Bi-objective Quadratic Programming Model for the Support Vector Machine. 91-97. 10.5121/csit.2020.100208.
- 17- Abdullah Farid, A., G. I. . Selim, and H. A. A. . Khater. "Applying Artificial Intelligence Techniques to Improve Clinical Diagnosis of Alzheimer's Disease". *European Journal of Engineering Science and Technology*, vol. 3, no. 2, Dec. 2020, pp. 58-79, doi:10.33422/ejest.v3i2.487.
- 18- Abdullah Farid, A. Applying Artificial Intelligence Techniques for Prediction of Neurodegenerative Disorders: A Comparative Case-Study on Clinical Tests and Neuroimaging Tests with Alzheimer's

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- Disease. Proceedings of The 2nd International Conference on Advanced Research in Applied Science and Engineering, 2020. <https://doi.org/10.33422/2nd.rase.2020.03.101>.
- 19- Abdullah Farid, A. A Composite Hybrid Feature Selection Learning-Based Optimization of Genetic Algorithm For Breast Cancer Detection. Proceedings of The 2nd International Conference on Advanced Research in Applied Science and Engineering, 2020. <https://doi.org/10.33422/2nd.rase.2020.03.99>.
- 20- Farid, A. A., Selim, G. I., Awad, H., & Khater, A. (2020). A Novel Approach of CT Images Feature Analysis and Prediction to Screen for Corona Virus Disease (COVID-19). International Journal of Scientific & Engineering Research, 11(3). <http://dx.doi.org/10.14299/ijser.2020.03.02>
- 21- Farid, A. A., Selim, G. I., Awad, H., & Khater, A. (2020). A Novel Approach of CT Images Feature Analysis and Prediction to Screen for Corona Virus Disease (COVID-19). International Journal of Scientific & Engineering Research, 11(3). <http://dx.doi.org/10.14299/ijser.2020.03.02>
- 22- Moustafa, Mohammed & Mohammed, Mohammed & Khater, Hatem & Ali, Hager. (2020). A BI-objective Model for SVM With an Interactive Procedure to Identify the Best Compromise Solution. International Journal of Artificial Intelligence & Applications. 11. 49-59. 10.5121/ijaia.2020.11204.
- 23- Farid, Ahmed Abdullah, Gamal Ibrahim Selim, and Hatem Awad A. Khater. "Deep Learning Classification For Diagnosis COVID-19 Between Bacterial Pneumonia and Viral Pneumonia in Chest X-Ray Images." (2020).
- 24- Ali, Hager & Moustafa, Mohammed & Mohammed, Mohammed & Khater, Hatem. (2020). A Fuzzy BI-Objective Model for SVM with an Interactive Procedure to Identify the Best Compromise Solution. 97-105. 10.5121/csit.2020.101808.
- 25- Mohamed Z. Mostafa, Hatem A. Khater, Mohamed R. Rizk, Abdullah M. Bahasan, A novel GPS/DVL/MEMS-INS smartphone sensors integrated method to enhance autonomous navigation, guidance and control system of AUSVs based on ADSF Combined Filter, Measurement, Volume 146, 2019, Pages 590-605, ISSN 0263-2241, <https://doi.org/10.1016/j.measurement.2019.06.048>.
- 26- Kareem Adel Mohamed; Mohamed Zakareya; Karim Hassan Youssef; Hatem Awad Khater. "Improved perturb and observe maximum peak power tracking for solar satellite systems". *International Conference on Aerospace Sciences and Aviation Technology*, 18, 18, 2019, 1-11. doi: 10.1088/1757-899X/610/1/012091
- 27- Mostafa, Mohamed & Khater, Hatem & Rizk, Mohamed & Bahasan, Abdullah. (2019). GPS/DVL/MEMS-INS Smartphone Sensors Integrated Method to EnhanceUSV Navigation System Based on Adaptive Data Sharing Factor Combined Filter (DSFCF). *IET Radar, Sonar & Navigation*. 13. 10.1049/iet-rsn.2019.0015.

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- 28- Khater, Hatem & Elsayed, Ashraf & El-shoafy, Noha. (2019). Underwater Navigation System Solution using MEMS-Mobile Sensors during the GPS Outage. *Journal of Communications*. 375-380. 10.12720/jcm.14.5.375-380.
- 29- Mostafa, Mohamed & Khater, Hatem & Rizk, Mohamed & Bahasan, Abdullah. (2019). A novel GPS/RAVO /MEMS-INS smartphone sensors integrated method to enhance USV navigation system during GPS outages. *Measurement Science and Technology*. 30. 10.1088/1361-6501/ab161c.
- 30- Alhamdany, Mostafa., Hatem Khater (2018). PROPOSED APPROACH FOR AUTOMATIC UNDERWATER OBJECT CLASSIFICATION. *ICIC Express Letters*. 12. 1205-1212.
- 31- Hatem Khater, "Automatic Tracking Risks System in Data Migration", *World Applied Sciences Journal, Scopus*, 34 (10), 1405-1413, 2016.
- 32- O. Elsayed, K. Mahar, M. Kholief and H. A. Khater, "Automatic detection of the pulmonary nodules from CT images," 2015 SAI Intelligent Systems Conference (IntelliSys), London, UK, 2015, pp. 742-746, doi: 10.1109/IntelliSys.2015.7361223.
- 33- Khater, Hatem Awad and Ahmed Hafez Hafez El-Mekawy. "Design and Implementation an Automatic Secure Control System for Entrance Ports." (2015).
- 34- Khater, Hatem Awad, "Parametric study on Fiber Bragg Grating for sensitivity improvement", *Nanotech France 2015 Conference & Exhibition*, 15 Jun- 17 Jun 2015, Paris- France.
- 35- Khater, H., S. Mesbah, and A. Anwar. "Enhanced navigation system for AUV using mobile application." *Int J Eng Inventions* 5.1 (2015): 14-19.
- 36- Naguib, M., Khater, H., Mohamed, A.. "Improved MARS Cipherring Using a Metamorphic-Enhanced Function". *World Academy of Science, Engineering and Technology, Open Science Index 85, International Journal of Computer and Information Engineering*, (2014), 8(1), 7 - 10.
- 37- Khater, A., and A. Michle. "Using novel technologies in unmanned underwater vehicle." *Int. J. Electr. Electron* 11.9 (2014): 184-187.
- 38- M. A. M. Abd Elwahab, K. M. Mahar, H. Abdelkader and H. A. Khater, "Combining R-Tree and B-Tree to Enhance Spatial Queries Processing," 2013 23rd International Conference on Computer Theory and Applications (ICCTA), Alexandria, Egypt, 2013, pp. 184-190, doi: 10.1109/ICCTA32607.2013.9529800.
- 39- Khater, A., "A Proposed Technique for Software Development Risks Identification by Using FTA Model", *World Academy of Science, Engineering and Technology, International Journal of Computer and Information Engineering*, Vol (7) No(1) Jul. 2013.
- 40- Khater, Hatem Awad, Ahmed Megahed and A. Baith Mohamed. "Underwater Object Recognition." , *International Journal of Engineering Inventions*, Volume 2, Issue 7, PP: 34-40 (May 2013) e-ISSN: 2278-7461, p-ISSN: 2319-6491.

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- 41- W. Abdelmoez, H. Khater and N. El-shoafy, "Comparing maintainability evolution of object-oriented and aspect-oriented software product lines," 2012 8th International Conference on Informatics and Systems (INFOS), Giza, Egypt, 2012, pp. SE-53-SE-60.
- 42- Khater, Hatem Awad et al. "A Hybrid Paradigm Aggregating Web-Service and Mobile Agent.", The International Journal of Computer Science and Communication Security (IJSCS), vol 2, 2012.
- 43- Korany, N., M. Abd Elzaher, and H. Khater. "Classification of underwater acoustic signals using various extraction methods." *Fortschritte der Akustik–Deutsche Gesellschaft fuer Akustik, DAGA* (2012): 653-654.
- 44- Khater, Hatem Awad, " Investigation about the performance of GMM for recognition of underwater acoustic signals", DAGA 2012, 38th German Annual Conference on Acoustics, Fraunhofer, Germany, March 19-22, 2012.
- 45- Abdelmoez, Walid & Khater, Hatem & El-shoafy, Noha. (2020). Assessing the Evolution of Software Product Lines Maintainability.
- 46- Rizk, Mohamed & Khater, Haifaa & Abdelwahab, Mostafa. (2011). Application of Artificial Intelligence in Classification of Maritime Targets. Proceedings of the 2011 International Conference on Artificial Intelligence, ICAI 2011. 2.
- 47- Khater, Hatem Awad, A GIS-Based System to Resolve Emergency Routing Problems in Tobruk city, Libyabruk City, Libya, ," 2011 21th International Conference on Computer Theory and Applications (ICCTA), Alexandria, Egypt, 2011.
- 48- Ehab A. Omran and Ayman A. Abdel-Fattah H. Khater 1, Ahmed S. Gad, Automatic Obstacle Avoidance for Unmanned Surface Vessels, Al-Azhar University Engineering Journal, 2009.
- 49- Khater, Hatem & Gad, Ahmed & Omran, Ehab & Abdel-Fattah, Ayman. (2009). Enhancement Matching Algorithms Using Fusion of Multiple Similarity Metrics for Sonar Images.
- 50- Khater, Hatem , Acoustic Targets Identification Using Hybrid Classifier, 2009 18th International Conference on Computer Theory and Applications (ICCTA), Alexandria, Egypt, 2008.
- 51- Onsy A. Abdel Alim and Hatem Awad Khater. 2007. Detection and reconstruction for 3D: wreck and recognition by using neural network classification technique. In Proceedings of the 4th WSEAS International Conference on Electronic, Signal Processing and Control (ESPOCO'05). World Scientific and Engineering Academy and Society (WSEAS), Stevens Point, Wisconsin, USA, Article 24, 1–6.
- 52- O. A. A. Alim and H. A. Khater, "Effect of turbulence on underwater targets recognition," Proceedings of the Seventeenth National Radio Science Conference. 17th NRSC'2000 (IEEE Cat. No.00EX396), Minufiya, Egypt, 2000, pp. F2/1-F2/8, doi: 10.1109/NRSC.2000.838972.

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Signature:



Supervision

- Supervision of researches leading to 16 M.Sc & 2 PhD. (Completed)
- Supervision of research leading to 3 M.Sc. and 2 Ph.D. degrees (on-going)

Review

PhD Thesis and 2 Master Thesis

Grants & Funds

- 2022 -2023 " ROV-HUE", 66825 EGP, Running, Academy of Scientific Research and Technology fund (STDF #296).
- 2022 – 2024 "Experiential Learning in Computer Engineering; Using the low-cost computing technology of the Field Programmable Gate Array devices," 1,598,600 EGP, Running, Science Technology and Innovation Development fund (STDF #45945),.
- 2010 – 2012 " Artificial Intelligent Project" \$ 80,000 Egyptian Army sponsor,
- 2015 – 2018 "Artificial Intelligent Project" \$ 250,000 Egyptian Army sponsor

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