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Work Experience

- Feb 2021 – Present **Acting Vice Dean faculty of Computer Science**, October University for modern sciences and Arts (MSA), Cairo, Egypt.
- Sep 2019 – Present **Full time Associate Professor**. Faculty of Computer Science, October university for modern sciences and arts (MSA), Cairo, Egypt.
- Feb 2019 – Sep 2019 **Head of Software Engineering Department**, Misr International University, Cairo, Egypt.
- 2012 – Sep 2019 **Head Committee for Graduation projects 4th level** , Misr International University, Cairo, Egypt.
- 2016 – Sep 2019 **Head Committee for community service and environmental affairs** , Misr International University, Cairo, Egypt.
- 2014 – 2016 **Head Examination unit for Bsc final year** Faculty of Computers and information systems, Helwan University, Cairo, Egypt.
- 2011 – 2014 **Head Examination Unit for Post Graduate Studies** Faculty of Computers and information systems, Helwan University, Cairo, Egypt.

Educat i on

- 2007 – 2011 **Ph.D., Department of Computer Science, Graduate school of Systems and Information Engineering, University of Tsukuba, Japan.** in Human Computer Interaction.
Thesis title: *Interaction with gestures in ubiquitous environments*. More details at http://www.iplab.cs.tsukuba.ac.jp/paper/doctor/ayman_doctor.pdf
- 2001 – 2006 **M.Sc. Computer Science, Computer Science, Department, Computer Science, Faculty of Computers and information systems, Helwan University, Egypt.** in Software Engineering.
Thesis title: *Building Object Oriented Framework for Websites Development Applications*.
- 2000 – 2001 **Masters Postgraduate study, Computer Science, Department, Computer Science, Faculty of Computers and information systems, Helwan University, Egypt.**
- 1996 – 2000 **B.Sc. (Excellent Honor) Computer Science, Department, Computer Science, Faculty of Computers and information systems, Helwan University, Egypt.**
Second Class Honours..
- 1995 – 1996 High School Certificate Omar Ebn El-Katab Language **English** School.

Skills

Teaching Subjects



- Human Computer Interaction
- Advanced HCI and Ubiquitous computing
- Software Engineering
- Advanced Software Engineering
- Software Architecture
- Agile Software Engineering
- Object Oriented Software Engineering
- System Analysis and Design
- Web Development 1 (Front End)
- Web Development 2 (Back End)
- Object Oriented programming with JAVA
- Advanced Programming Languages
- Data Structures and Algorithms

Coding Java, php, Python, C++, sql, xml/xsl,json, L^AT_EX, asp.net, Visual Basic.net, c#.net, PHP.

Databases Mysql, Postgresql, sqlite, Firebase.

Web Dev PHP, Html, css, JavaScript, Apache Web Server, CSS, Angular, Node JS.

Misc. Academic research, teaching, training, consultation, L^AT_EX typesetting and publishing.

Research Area

Main Area Sport activity recognition, Interaction with gestures and Smart interfaces , Ubiquitous environments , Animal behaviour analysis Wearable Sensors , Augmented reality , Behavior detection, Computer Vision and Brain Computer Interaction.

Research Area (con nued)

- Other □ Software Engineering, Web Development, Service oriented architecture and applications, Multi-Core and distributed programming.

Research Publications

Journal Articles

- 1 Zaher, M., Ghoneim, A. S., Abdelhamid, L., & Atia, A. (2024, April). Unlocking the potential of rnn and cnn models for accurate rehabilitation exercise classification on multi-datasets. *Multimedia Tools and Applications* (IF: 4.27, Q1, Cite Score: 7.1) . doi:10.1007/s11042-024-19092-0
- 2 Mohialdin, A. M., Elbarrany, A. M., & Atia, A. (2023). Chicken behavior analysis for surveillance in poultry farms. *International Journal of Advanced Computer Science and Applications* (IF: 0.9, Q4, CiteScore: 2.3) , 14(3). doi:10.14569/IJACSA.2023.01403106
- 3 Chettaoui, N., Atia, A., Bouhlel, M. S., Elmohaiman, D. A., & Ahmed, S. (2022, December). Usability of montessori tangible user interfaces to support learners' retention skills in preschools. *Personal and Ubiquitous Computing* (CiteScore: 6.5) . doi:10.1007/s00779-022-01706-9
- 4 Chettaoui, N., Atia, A., & Bouhlel, M. S. (2022a, March). Exploring the impact of interaction modality on students' learning performance. *Journal of Educational Computing Research* (Q1, IF:4.8) , 60(1), 4–27. doi:10.1177/07356331211027297
- 5 Embodied learning via tangible user interfaces: the impact of physical interaction on learning performance. (2022). *International Journal of Technology Enhanced Learning* (Q2, IF: 1.5, CiteScore: 3.8) , 14(2), 180.
- 6 Magdy, O. & Atia, A. (2022a). Human activity recognition in car workshop. *International Journal of Advanced Computer Science and Applications* (Q4, IF:0.9, CiteScore: 2.3) , 13(4). doi:10.14569/IJACSA.2022.0130495
- 7 Hegazy, H., Hussien, M. A. M., Elmosalamy, S., Hassan, Y., Nabil, A., & Atia, A. (2021, March). Multi-sensor fusion for online detection and classification of table tennis strokes. *International Journal of Intelligent Engineering and Systems* (CiteScore: 3.0) , 14(2), 201–210. doi: 10.22266/ijies2021.0430.18
- 8 Slim, S. O., Elfattah, M. M. A., Atia, A., & Mostafa, M.-S. M. (2021, March). Iot system based on parameter optimization of deep learning using genetic algorithm. *International Journal of Intelligent Engineering and Systems* (CiteScore: 3.0) , 14(2), 220–235. doi: 10.22266/ijies2021.0430.20
- 9 Wageeh, Y., Mohamed, H. E.-D., Fadl, A., Anas, O., ElMasry, N., Nabil, A., & Atia, A. (2021, January). Yolo fish detection with euclidean tracking in fish farms. *Journal of Ambient Intelligence and Humanized Computing* (Q2, IF:3.71) . doi:10.1007/s12652-020-02847-6
- 10 Ali, S. A. S., Chettaoui, N., Atia, A., Bouhlel, M. S., & Mohaiman, D. M. A. (2021). A futuristic design vision of tangible user interfaces on enhancing montessori. *Interactive Learning Environments* (Q1, IF:5.4, CiteScore: 11.9) , 1–16. doi: 10.1080/10494820.2021.1987275
- 11 Nady, A., Aboutab, A., & Atia, A. (2021). Automated sports player performance analysis: a survey. *FCI-H Informatics Bulletin*, 3(2), 11–16. □
https://fcihib.journals.ekb.eg/article_185782_c96bf5498da536b7049e574995c2a8b5.pdf
- 12 Ikarate: karate kata aiding system. (2020). *INTERNATIONAL JOURNAL OF UBIQUITOUS SYSTEMS AND PERVERSIVE NETWORKS (JUSPN)*, 12(2), 25–30.
- 13 Nabil, A., Hegazy, H., Abdelsalam, M., Hussien, M., Elmosalamy, S., Hassan, Y. M., & Atia, A. (2020). Usability study of a comprehensive table tennis ar-based training system with the focus on players' strokes. *Journal of Ubiquitous Systems & Pervasive Networks*, 13(1), 01–09.
- 14 Ayman, A. & Nada, S. (2019). Hand gestures classification with multi-core dtw. *The ISC International Journal of Information Security* (Q4, IF:0.7) , 11(special issue), 91–96.

- 15 Mohamed, K., Aziz, A., Mohamed, B., Abdel-Hakeem, K., Mostafa, M., & Atia, A. (2019). Blockchain for tracking serial numbers in money exchanges. *Intelligent Systems in Accounting, Finance and Management* (Q2, IF:2.9, CiteScore: 5.9) , 26(4), 193–201. doi: 10.1002/isaf.1462
- 16 Slim, S. O., Atia, A., Elfattah, M. M., & M.Mostafa, M.-S. (2019). Survey on human activity recognition based on acceleration data. *International Journal of Advanced Computer Science and Applications* (Q4, IF:0.9, CiteScore: 2.3) , 10(3).
- 17 Yasser, A., Tariq, D., Samy, R., Hassan, M. A., & Atia, A. (2019). Smart coaching: enhancing weightlifting and preventing injuries. *International Journal of Advanced Computer Science and Applications* (Q4, IF:0.9, CiteScore: 2.3) , 10(7). doi:10.14569/IJACSA.2019.0100789
- 18 AHMED NADY, A. E. A., AYMAN ATIA. (2018). Real-time abnormal event detection in crowded scenes. *Journal of Theoretical and Applied Information Technology* (CiteScore: 1.1) , 96(18), 6064–6074.
- 19 Hany Mohamed, A. A. & Mostafa, M.-S. M. (2018). Sentiment analysis: comparative study between gsvm and knn. *American Journal of Applied Sciences* (CiteScore: 1.5) , 15(6), 339–345.
- 20 Ali, A. H., Atia, A., & Mostafa, M.-S. M. (2017). Recognizing driving behavior and road anomaly using smartphone sensors. *International Journal of Ambient Computing and Intelligence (IJACI)* (Q2, CiteScore: 3.5) , 8(3), 22–37.
- 21 Slim, S. O., Atia, A., & Mostafa, M.-S. M. (2016b). Dtwdir: an enhanced dtw algorithm for autistic child behaviour monitoring. *International Journal of UbiComp (IJU)*, 7(2), 1–11.
- 22 Abdulkader, S. N., Atia, A., & Mostafa, M.-S. M. (2015a). Authentication systems: principles and threats. *Computer and Information Science*, 8(3), 155.
- 23 Abdulkader, S. N., Atia, A., & Mostafa, M.-S. M. (2015b). Brain computer interfacing: applications and challenges. *Egyptian Informatics Journal* (Q1, IF:5.2, CiteScore: 10.8) , 16(2), 213–230.
- 24 Adeen, H. S., Atia, A., Amin, A., Victor, A., Essam, A., Gharib, E., & Hussien, M. (2015). Remoact: portable projected interface with hand gesture interaction. *Journal of Computer Science*, 11(5), 738.
- 25 Ahmed, D., Atia, A., Rashed, E. A., & Mostafa, M.-S. M. (2015). Laser pointer interaction for 3d angiography operation. *IOSR Journal of Computer Engineering*, 17(5), 18–25.
- 26 Hany Mohamed, A. E. & Sami, M. (2015). The road to emotion mining in social network. *International Journal of Computer applications*, 123(18), 41–47.
- 27 Aty, M. M. A., Fahmy, A. R., Elsayed, O. M., Mohamed, A. H., El-Azeem, H. M. A., Rihan, A. I., & Atia, A. (2014). Prokiwi: a projected portable interface for enriching object scenarios with kinect and wii remote. *International Journal of Computer Theory and Engineering* (CiteScore: 2.9) , 6(2), 97.
- 28 Atia, A. & Tanaka, J. (2011). Parameters affecting interaction with gestures in ubiquitous environments. *Ubiquitous Computing and Communication Journal*, 6(3), 938–948.
- 29 Atia, A. (2010). Interaction with tilting gestures in ubiquitous environments. *International Journal Of UbiComp*, 1(3), 1–13.

Conference Proceedings

- 1 Daker, M., Elsayad, F., & Atia, A. (2024). The classification of cattle behaviors using deep learning. In *2024 6th international conference on computing and informatics (icci)* (pp. 28–33). doi:10.1109/ICCI61671.2024.10485159
- 2 Daker, M., Elsayad, F., Haitham, H., Ahmed, M., Al-Emrany, A. M., & Atia, A. (2024). The detection of exercise intensity for cardiac rehabilitation using optical flow and deep learning. In *2024 6th international conference on computing and informatics (icci)* (pp. 217–222). doi:10.1109/ICCI61671.2024.10485087
- 3 Farag, Y. M., Ghobrial, M. S., Melad, P. E., Saad, S. H., & Atia, A. (2024). Medi-watch: an automated patient behavior detection system. In *2024 14th international conference on electrical engineering (iceeng)* (pp. 248–253). doi: 10.1109/ICEENG58856.2024.10566376

- 4 Mostafa, K., Hany, M., Carnaghi, M., Hopkins, R. J., & Atia, A. (2024). Aedes aegypti mosquito movements analysis and sex classification using computer vision and deep learning. In *2024 6th international conference on computing and informatics (icci)* (pp. 261–267). doi:10.1109/ICCI61671.2024.10485146
- 5 Taie, A., Hamdy, A., Zaher, M., Al-Emrany, A. M., Mahmoud Ahmed, O. S., & Atia, A. (2024). Physical rehabilitation exercises classification using deep learning models. In *2024 14th international conference on electrical engineering (iceeng)* (pp. 181–183). doi: 10.1109/ICEENG58856.2024.10566467
- 6 Walid, M., Ameen, M., Zaher, M., & Atia, A. (2024). A scoring approach for improving presentation impact: addressing voice stuttering, ar glasses-based emotion recognition, and profiled movement assessment. In *2024 6th international conference on computing and informatics (icci)* (pp. 284–290). doi:10.1109/ICCI61671.2024.10485076
- 7 Yasser, F., Hatem, S., Ahmed, Z., Waleed, H., Hossam, B., Ali, R. E., & Atia, A. (2024). Driver and vehicle unsafe behavior tracking using deep learning. In *2024 6th international conference on computing and informatics (icci)* (pp. 75–82). doi: 10.1109/ICCI61671.2024.10485085
- 8 Yasser, F., Hatem, S., Waleed, H., Ahmed, Z., Hossam, B., Ali, R. E., & Atia, A. (2024). Driver behavior tracking: a hierarchical classification approach. In *2024 14th international conference on electrical engineering (iceeng)* (pp. 231–236). doi: 10.1109/ICEENG58856.2024.10566383
- 9 Atta, O. & Atia, A. (2023). Framework for crack detection using deep learning. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 181–186). doi: 10.1109/IMSA58542.2023.10217751
- 10 Daker, M., Elsayad, F., & Atia, A. (2023). Karate kata style classification using pose landmarks and deep learning. In *2023 5th novel intelligent and leading emerging sciences conference (niles)* (pp. 228–231). doi: 10.1109/NILES59815.2023.10296806
- 11 Elbarrany, A. M., Mohialdin, A., & Atia, A. (2023a). Abnormal behavior analysis for surveillance in poultry farms using deep learning. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 56–61). doi: 10.1109/IMSA58542.2023.10217676
- 12 Elbarrany, A. M., Mohialdin, A., & Atia, A. (2023b). The use of pose estimation for abnormal behavior analysis in poultry farms. In *2023 5th novel intelligent and leading emerging sciences conference (niles)* (pp. 33–36). doi: 10.1109/NILES59815.2023.10296704
- 13 Elbarrany, A. M., Mosallam, K., & Atia, A. (2023). Bucktracker: system for multi banknotes tracking. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 406–411). doi:10.1109/IMSA58542.2023.10217421
- 14 Elkess, G., Elmoushy, S., & Atia, A. (2023). Karate first kata performance analysis and evaluation with computer vision and machine learning. In *2023 international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 1–6). doi: 10.1109/MIUCC58832.2023.10278313
- 15 Elmasry, Y., Elzeky, M., & Atia, A. (2023). Multiple moving objects using deep learning for trajectory extraction and clustering. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 62–67). doi:10.1109/IMSA58542.2023.10217507
- 16 Emam, A. M., AbdelAzim Elgarh, M., Fahmy, A., Moniem, A. A., & Atia, A. (2023). News presenter skills evaluation using multi-modality and machine learning. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 124–129). doi: 10.1109/IMSA58542.2023.10217597
- 17 Emam, A. M., Tarek Ali, O., & Atia, A. (2023). Football activities classification. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 520–525). doi: 10.1109/IMSA58542.2023.10217464
- 18 Ezzeldin, M., Ghoneim, A. S., Abdelhamid, L., & Atia, A. (2023). On understanding sports–har: hierarchical, mobile, multi-sensor based classification of table–tennis strokes. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 142–148). doi: 10.1109/IMSA58542.2023.10217737
- 19 Hamido, M., Abdelrahman, A., Bloz, O., El-Said, H. M., & Atia, A. (2023). Monitoring attention through the use of computerized trailmaking tests with varying input devices. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 508–513). doi: 10.1109/IMSA58542.2023.10217590

- 20 Hamido, M., Mohialdin, A., & Atia, A. (2023). The use of background features, template synthesis and deep neural networks in document forgery detection. In *2023 international conference on artificial intelligence in information and communication (icaiic)* (pp. 365–370). doi:10.1109/ICAIIC57133.2023.10067120
- 21 Hamido, M., Mosallam, K., Diab, O., Amin, D., & Atia, A. (2023). A framework for human activity recognition application for therapeutic purposes. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 130–135). doi: 10.1109/IMSA58542.2023.10217417
- 22 Hany, A., Ramadan, E., Akl, A., & Atia, A. (2023). The effect of using tangible user interfaces compared to traditional learning for teaching programming in higher education: an experimental study. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 514–519). doi:10.1109/IMSA58542.2023.10217780
- 23 Hany, K., Ayman, Y., & Atia, A. (2023). S of pre-trained deep learning models for bird species identification. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 309–314). doi:10.1109/IMSA58542.2023.10255070
- 24 Mohialdin, A., Saleh, D., Taher, E., Sabry, K., El-Said, H. M., & Atia, A. (2023). Driveguard: an automated interactive alerting system to track and analyze drivers' behaviors on road. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 502–507). doi:10.1109/IMSA58542.2023.10217448
- 25 Mostafa, K., Hany, M., & Atia, A. (2023). Automated evaluation of karate practitioners' style during the first kata performance using deep learning and pose estimation. In *2023 5th novel intelligent and leading emerging sciences conference (niles)* (pp. 238–241). doi: 10.1109/NILES59815.2023.10296663
- 26 Saleh, D., Ahmed, M., Zaafan, M., Farouk, Y., & Atia, A. (2023). A pharmacology toolkit for animal pose estimation, tracking and analysis. In *2023 international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 1–7). doi:10.1109/MIUCC58832.2023.10278344
- 27 Saleh, D., Ayman, Y., & Atia, A. (2023). Understanding of gait classification using template-matching techniques. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 43–48). doi:10.1109/IMSA58542.2023.10217438
- 28 Shiha, N., Abdelkhalek, N., Refaey, M. M., & Atia, A. (2023). Aqua-farm fish behavior analysis using machine learning. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 418–423). doi:10.1109/IMSA58542.2023.10217422
- 29 Walid, M., Ameen, M., & Atia, A. (2023). Real-time detection of taikyoku shodan karate kata poses using classical machine learning and deep learning models. In *2023 international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 15–20). doi: 10.1109/MIUCC58832.2023.10278373
- 30 Zaher, M., Samir, A., Ghoneim, A., Abdelhamid, L., & Atia, A. (2023). A framework for assessing physical rehabilitation exercises. In *2023 intelligent methods, systems, and applications (imsa)* (pp. 526–532). doi: 10.1109/IMSA58542.2023.10217392
- 31 Abozaid, A. & Atia, A. (2022). Multi-modal online exam cheating detection. In *2022 international conference on electrical, computer and energy technologies (icecet)* (pp. 1–6). doi:10.1109/ICECET55527.2022.9873527
- 32 Abuzaid, A. & Atia, A. (2022). Exploring and classifying beef retail cuts using transfer learning. In *2022 ieee 9th international conference on sciences of electronics, technologies of information and telecommunications (setit)* (pp. 461–467). doi: 10.1109/SETIT54465.2022.9875732
- 33 Ayman, A., Arafat, S. W., Eldin, A. M. H., & Atia, A. (2022). Dental implant recognition and classification with convolutional neural network. In *2022 2nd international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 477–482). doi: 10.1109/MIUCC55081.2022.9781715
- 34 Chettaoui, N., Atia, A., & Bouhlel, M. S. (2022b). Predicting students performance using eye-gaze features in an embodied learning environment. In *2022 ieee global engineering education conference (educon)* (pp. 704–711). doi: 10.1109/EDUCON52537.2022.9766783

- 35 Magdy, O. & Atia, A. (2022b). Human activity recognition in maintenance centers to reduce wasted time. In *2022 2nd international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 118–124). doi: 10.1109/MIUCC55081.2022.9781695
- 36 Maged, Y. & Atia, A. (2022). The prediction of blood glucose level by using the ecg sensor of smartwatches. In *2022 2nd international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 406–411). doi: 10.1109/MIUCC55081.2022.9781730
- 37 Matboli, M. A. & Atia, A. (2022). Fruit diseases identification and classification using deep learning model. In *2022 2nd international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 432–437). doi: 10.1109/MIUCC55081.2022.9781688
- 38 Mohamed, H. & Atia, A. (2022). Exploring brain tumor classification using deep learning. In *2022 2nd international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 483–488). doi:10.1109/MIUCC55081.2022.9781767
- 39 Nady, M. & Atia, A. (2022). Multi-modalities analysis in profiled learning. In *2022 international conference on electrical, computer and energy technologies (icecet)* (pp. 1–6). doi:10.1109/ICECET55527.2022.9873429
- 40 Tamer, S. & Atia, A. (2022). Recognition of butterfly strokes using different machine learning models. In *2022 international conference on electrical, computer and energy technologies (icecet)* (pp. 1–6). doi:10.1109/ICECET55527.2022.9872896
- 41 Tarek, O. & Atia, A. (2022). Forensic handwritten signature identification using deep learning. In *2022 ieee 9th international conference on sciences of electronics, technologies of information and telecommunications (setit)* (pp. 185–190). doi: 10.1109/SETIT54465.2022.9875697
- 42 Zaky, A., Saber, M. M., Essam, R. M., & Atia, A. (2022). Irats:intelligent system for rat behavior analysis. In *2022 2nd international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 219–224). doi: 10.1109/MIUCC55081.2022.9781727
- 43 Ashraf, A. & Atia, A. (2021). Comparative study between transfer learning models to detect shrimp diseases. In *2021 16th international conference on computer engineering and systems (icces)* (pp. 1–6). doi:10.1109/ICCES54031.2021.9686116
- 44 Atia, A., Yousef, A. M. F., Hamdy, A., El-Haleem, A. M. A., & Elmesalawy, M. M. (2021). Intelligent virtual tutor for online laboratory experiments based on modelling the student's mouse interaction behavior. In *2021 ieee 12th annual ubiquitous computing, electronics mobile communication conference (uemcon)* (pp. 0154–0159). doi: 10.1109/UEMCON53757.2021.9666511
- 45 Chettaoui, N., Atia, A., & Bouhlel, M. S. (2021). Predicting student performance in an embodied learning environment. In *2021 international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 1–7). doi: 10.1109/MIUCC52538.2021.9447603
- 46 Elmesalawy, M. M., Atia, A., Yousef, A. M. F., El-Haleem, A. M. A., Anany, M. G., Elmosilhy, N. A., ... Din, E. S. E. (2021). Ai-based flexible online laboratory learning system for post-covid-19 era: requirements and design. In *2021 international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 1–7). doi: 10.1109/MIUCC52538.2021.9447601
- 47 Raafat, M. A., El-Wakil, R. A.-F., & Atia, A. (2021). Comparative study for stylometric analysis techniques for authorship attribution. In *2021 international mobile, intelligent, and ubiquitous computing conference (miucc)* (pp. 176–181). doi: 10.1109/MIUCC52538.2021.9447600
- 48 Samir, M. A., Maged, Y., & Atia, A. (2021). Exam cheating detection system with multiple-human pose estimation. In *2021 ieee international conference on computing (icoco)* (pp. 236–240). doi:10.1109/ICOCO53166.2021.9673534
- 49 Samir, M. A., Mohamed, Z. A., Hussein, M. A. A., & Atia, A. (2021). Applying deep learning to track food consumption and human activity for non-intrusive blood glucose monitoring. In *2021 ieee 12th annual ubiquitous computing, electronics mobile communication conference (uemcon)* (pp. 0319–0324). doi:10.1109/UEMCON53757.2021.9666662

- 50 Tarek, O., Magdy, O., & Atia, A. (2021). Yoga trainer for beginners via machine learning. In *2021 9th international japan-africa conference on electronics, communications, and computations (jac-ecc)* (pp. 75–78). doi: 10.1109/JAC-ECC54461.2021.9691425
- 51 Wessa, E., Ashraf, A., & Atia, A. (2021). Can pose classification be used to teach kickboxing? In *2021 international conference on electrical, computer and energy technologies (icecet)* (pp. 1–6). doi:10.1109/ICECET52533.2021.9698656
- 52 Wessa, E. & Atia, A. (2021). Parallelization of one dimensional first fit decreasing algorithm. In *2021 16th international conference on computer engineering and systems (icces)* (pp. 1–5). doi:10.1109/ICCES54031.2021.9686107
- 53 Yousef, A. M. F., Atia, A., Youssef, A., Eldien, N. A. S., Hamdy, A., El-Haleem, A. M. A., & Elmesalawy, M. M. (2021). Automatic identification of student's cognitive style from online laboratory experimentation using machine learning techniques. In *2021 ieee 12th annual ubiquitous computing, electronics mobile communication conference (uemcon)* (pp. 0143–0149). doi:10.1109/UEMCON53757.2021.9666516
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- 64 Samir, M., Hanie, A., Aboulgheit, A., Hossam, K., Atia, A., & ElMasry, N. (2018). The wanderer: implementing markerless augmented reality with object position awareness. In *Deep and representation learning (iwdrl), 2018 first international workshop on* (pp. 31–40). IEEE.
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- 75 Rashed, E. A., Ghanem, A. M., Amin, A., Atia, A., al-Shatouri, M., & Kudo, H. (2013). Development of interactive 3d imaging system for hepatic angiography. In *Nuclear science symposium and medical imaging conference (nss/mic), 2013 ieee* (pp. 1–6). IEEE.
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Journal/Conference Reviewer

- Journal Reviewer **IEEE open Access**, Reviewer, Elsevier Computers and Electronics in Agriculture, Elsevier Egyptian Informatics Journal Taylor and Francis Applied Artificial Intelligence
- Conference Chair MIUCC 2023,2022,2021 ,International Conference session chair , ICCES International Conference session chair, IMSA 2023,2024 International Conference chair, Organizer
- 2006- **IEEE Senior member 80742850**
- 2019- **SIGCHI ACM member 9162954**
- 2019-2021 **CairoCHI ACM Membership committee**

Languages

- English **Professional**, Strong reading, writing and speaking competencies for English
- German **Acceptable level B1**, Good reading, writing and speaking.
- French **Fair**, Good reading, writing and speaking.
- Japanese **Fair**, Good reading, writing and speaking.
- Arabic **Mother Tongue**, Strong reading, writing and speaking competencies for English

Miscellaneous Experience

Activities

- 2017-2019 **Social and Environmental Affairs Rep.**, I am responsible for faculty of computers at MIU, Social and community affairs, attending events and participate in different activities.
- 2012-2019 **Graduation Projects General Supervisor**, My responsibility include supervising all graduation projects running at MIU, Guiding and mentoring them till graduation. Moreover, responsibility includes managing Graduation projects workshop and introducing graduates to companies <http://miucsgp.hciegyp.com> .

Awards and Achievements

- 2023 **2nd Best paper award IEEE 5th Novel Intelligent and Leading Emerging Sciences Conference (NILES 2023), Karate Kata Style Classification Using Pose Landmarks and Deep Learning' Direct Supervision at MSA**
- 1st Best paper award IEEE IMSA 2023, Abnormal Behavior Analysis for Surveillance in Poultry Farms using Deep Learning Direct Supervision at MSA**
- UGRF 16th Edition at Nile University the 4th Junior research competition , 1st place track 2: information technology and computer science, Abnormal behaviour analysis for surveillance in poultry farms. Direct Supervision at MSA**

Miscellaneous Experience (con nued)

- 2022 **UGRF 14th Edition at Nile University**, CGM UGRF0th (Information Technology and computer science Track), BCGM: Blood Glucose monitoring system using Multi-task deep learning **Second** position, Cairo, Egypt, Nile University research center Direct Supervision at MSA.
- 2020 **UGRF 10th Edition at Nile University**, IKarate: Enhancing Karate Players style and guidance system, UGRF0th (ICSIT Track) **First** position, Cairo, Egypt, Nile University research center Direct Supervision at MSA/MIU.
- 2020 **Ibteicar Graduation Project competition**, Trackify A system for storing money transactions, TIEC competition (block chain) **First** position, Cairo, Egypt, <http://www.tiec.gov.eg/> Direct Supervision at FCIH.
- 2019 **Ibteicar Graduation Project competition**, The Wanderer: A Markerless Augmented Reality Game with Object Positioning Awareness, TIEC competition third position, Cairo, Egypt, <http://www.tiec.gov.eg/> Direct Supervision at MIU.
- 2019 **Ibteicar Graduation Project competition**, Lips Reading, TIEC competition third position, Cairo, Egypt, <http://www.tiec.gov.eg/>. EGP General Supervisor at MIU.
- 2018 **EED 2018** ,Automated detection of white cells blood cancer detection, The third place winner in EED Software Development Engineering competition. General Supervisor at MIU.
- 2018 **AUC Tech Summit 2018** ,Lips Reading, First Place Winner of the “Three Minutes Thesis” Competition. EGP General Supervisor at MIU.
- 2018 **National Bank of AbuDabi 2018** ,Lips Reading, 2nd place award Winner of NBD S.A.E Future Intelligence Program. 30,000 EGP General Supervisor at MIU.
- 2017 **Ibteicar Graduation Project competition**, Brainyology, TIEC competition Second position, Cairo, Egypt, <http://www.tiec.gov.eg/>. 8000 EGP General Supervisor at MIU.
- 2015 **Ibteicar Graduation Project competition**, Alive: Augmented reality social network around tangible objects, TIEC competition Third position, Cairo, Egypt, <http://www.tiec.gov.eg/>. 3000 EGP. Direct Supervision at FCIH
- 2015 **Connect Arab 2015 Project competition** ,Vehicle Accident Prevention ”VAP ”, First position with award 10,000 EGP. Direct Supervision at MIU.
- 2015 **Injaz Egypt 2015** ,Medika - Medical Augmented Reality Solution For Fast Data Retrieval, Third position with Fund 90,000 EGP. Direct Supervision at MIU.
- 2015 **Microsoft ATL (Egypt Research LAB)**, Kinect and - Innovative Track Competition and Fund with 2000 EGP to each team. Direct Supervision at FCIH
- 2014 **Ibteicar Graduation Project competition**, RemoAct: Portable Projected interface and hand gesture interaction, TIEC competition Second position, Cairo, Egypt, <http://www.tiec.gov.eg/>. 5000 EGP Direct Supervision at FCIH
- 2014 **Microsoft ATL (Egypt Research LAB)**, Kinect and - Innovative Track Competition and Fund with 2000 EGP to each team. Direct Supervision at FCIH
- 2013 **Ibteicar Graduation Project competition**, TIEC competition Third position, Cairo, Egypt, <http://www.tiec.gov.eg/>. 3000 EGP

Miscellaneous Experience (continued)

- Young Innovators' Awards 2013 Project competition** Prokiwi: A projected portable interface for enriching object scenarios with kinect and Wii remote, First Position. Direct Supervision at FCIH

- 2004 **Cisco Certified Silver Partner**, implementing the complete Call Tracking System that fulfills the requirements, Synergy Professional Services, Cairo, Egypt.
- 2003 **Eagle Award**, USAID for the New automated Accruals system NAAS, Cairo, Egypt.

Projects and Grants

- 2021-2022 **ASRT Academy for scientific research and technology**. Online Laboratory Learning Environment for Engineering, Science and Technology Education funded by Egyptian Government.

- 2013-2015 **ASRP Applied scientific research project**. Development of interactive 3D imaging system for hepatic angiography funded by Egyptian Government with 750,000 EGP.
 ITIDA Graduation Project fund 2 graduation project fund 10,00 LE for each project, Cairo, Egypt.

- 2013-2014 **ITIDA Graduation Project fund** 5 graduation project fund 10,00 LE for each project, Cairo, Egypt.

Certificates

- 23 Feb 2022 **UK PG-CERT, HAE Fellow**
- 20 Feb 2020 **IBM Big Data Engineer on Cloud Mastery Award**
- 25 Jan 2019-2019 **Scrum Fundamentals Certified**

- 2000-2001 **Microsoft Certified Solution Developer MCSD VC++** • MCP in VC++ 6.0 desktop applications. • MCP in VC++ 6.0 distributed applications. • MCP in Business analysis and requirements • MCP in Building web applications using Interdev

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