

List of Publications

Journal Publications:

- Abdulaziz Althekair, Mohammed Odeh, Mohammad AlBayaa, Marwa Sharawi, and Iyad Abu Doush, Comparative Analysis of EEG-EMG Brain Computer Interface for Mobile Gaming for Inclusive and Gesture-Free Interaction, in CCF Transactions on Pervasive Computing and Interaction, Springer. (under submission)
- Israel Miguel-Andrs, Jorge Ramos-Frutos, Marwa Sharawi, Diego Oliva, Elivier Reyes- Dvila, ngel Casas-Ordaz, Marco Prez-Cisneros, Sal Zapotecas-Martnez, "Wrapper- Based Feature Selection to Classify Flatfoot Disease," in IEEE Access, vol. 12, pp. 22433-22447, 2024.
- Abdel-Basset, Mohamed, Reda Mohamed, Laila Abdel-Fatah, Marwa Sharawi and Karam Sallam, "Improved Metaheuristic Algorithms for Optimal Parameters Selection of Proton Exchange Membrane Fuel Cells: A Comparative Study." in IEEE Access, vol. 11, pp. 7369-7397, 2023.
- Abdel-Basset, Mohamed, Reda Mohamed, Waleed Abdelkhalik, M. Sharawi, Karam Sallam, "Task Scheduling Approach in Cloud Computing Environment Using Hybrid Differential Evolution." Mathematics 2022, 10, 4049.
- Abdel-Basset, Mohamed, Reda Mohamed, Marwa Sharawi, Laila Abdel-Fatah, Mohamed Abouhawwash, and Karam Sallam. "A comparative study of optimization algorithms for parameter estimation of PV solar cells and modules: Analysis and case studies." Energy Reports 8 (2022): 13047-13065.
- Emary, Eid, Hossam M. Zawbaa, and Marwa Sharawi. "Impact of Levy flight on modern meta-heuristic optimizers." Applied Soft Computing 75 (2019): 775-789.
- Marwa Sharawi, E. Emary, Imane Aly Saroit, and Hesham El-Mahdy. "Flower pollination optimization algorithm for wireless sensor network lifetime global optimization." International Journal of Soft Computing and Engineering 4, no. 3 (2014): 54-59.
- Marwa Sharawi, E. Emary, Imane Aly Saroit, and Hesham El-Mahdy. "Bat swarm algorithm for wireless sensor networks lifetime optimization." International Journal of Science and Research, 3, no. 5 (2014): 654-664.

- Marwa Sharawi, Imane Aly Saroit, Hesham El-Mahdy, and Eid Emary. "Routing wireless sensor networks based on soft computing paradigms: survey." *International Journal on Soft Computing, Artificial Intelligence and Applications (IJSCAI)* 2, no. 4 (2013): 21-36.

Conference Publications:

- Mohamed Abdel-Basset, Hossam Hawash, Marwa Sharawi, Mohammed El-Abd, Karam Sallam, and Mohamed Abouhawwash. Quantum Intelligence in Beyond 5G Networks: Current Progress, and Open Avenues. Accepted for publication in the IEEE Conference on Artificial Intelligence (CAI), 2024.
- Abdulaziz Althekair, Mohammed Odeh, Mohammad AlBayaa, Marwa Sharawi and Iyad Abu Doush, Mobile Gaming EMG-Based Brain Computer Interface, in CHIRA 23: 7th International Conference on Computer-Human Interaction Research and Applications, November 16 17, 2023.
- Marwa Sharawi , Mohammed El-Abd, "A Cooperative Co-evolutionary LSHADE Algorithm for Large-Scale Global Optimization" IEEE Symposium Series on Computational Intelligence (SSCI),pp. 777-784, Hawaii, USA, November, 2017.
- Pola Fahim, Osama Abd Elnaby, Marwa Sharawi,"Last Stand: Virtual Reality Game" Proceedings of the Ninth Annual Undergraduate Research Conference on Applied Computing(URC 2017),Zayed University,Dubai, April 2017.
- Ahmed Yasser, Feras Nidal, Marwa Sharawi,"Galactic Maneuvers: IOS and Android Mobile Game" Proceedings of the Ninth Annual Undergraduate Research Conference on Applied Computing(URC 2017),Zayed University,Dubai, April 2017.
- Marwa Sharawi, E. Emary "Impact of Grey Wolf Optimization on WSN Cluster Formation and Lifetime Expansion" 2017 International Conference on Advanced Computational Intelligence (ICACI2017), pp.157-162, Doha, Qatar, 4-6 February, 2017.
- Marwa Sharawi, Hossam M.Zawbaa, E. Emary "Feature Selection Approach based on Whale Optimization Algorithm" 2017 International Conference on Advanced Computational Intelligence (ICACI2017), pp. 163-168, Doha, Qatar, 4-6 February, 2017.
- Hossam M.Zawbaa, E. Emary, B.Parv, Marwa Sharawi , "Feature Selection Approach based on Moth-Flame Optimization Algorithm" Bi-annual IEEE World Congress on Computational Intelligence (WCCI),pp. 4612- 4617, Vancouver, Canada, July, 2016.

- Marwa Sharawi, E.Emary , Imane Saroit, Hesham El-Mahdy, "WSNs Energy-Aware Coverage Preserving Optimization Model based on Multi-Objective Bat Algorithm" IEEE congress on evolutionary computing (CEC2015), Sendai, Japan, (25-28) May 2015, pp. 472-479.
- Marwa Sharawi, Amira Fouad, and Amir Zeid "Towards Effective Integration of Virtual Learning Environments and Blended" The 1st AOU International Conference on Open Learning: Role, Challenges, and Aspirations, Regional Center for Development of Educational Software, Kuwait, Nov 2013.
- Marwa Sharawi, M. Sammany, M. El-Beltagy, I. Saroit "Optimizing Neural Network Architecture Using Tikhonov Regularization Parameter for Intrusion Detection Systems and Classification of Attacks" Proceedings of the 2008 International Conference on Information and Knowledge Engineering, Las Vegas, USA , July 2008.
- M. Sammany, Marwa Sharawi, M. El-Beltagy, I. Saroit "Artificial Neural Networks Architecture for Intrusion Detection Systems and Classification of Attacks" Proceedings of the Fifth International Conference on Informatics and Systems, Egypt, pp. 367-372, March 2007.

Book Chapter:

- Marwa Sharawi, Mohammed Elabd. "Brain Storm Optimization Algorithm" Handbook of AI-based Metaheuristics, edited by Anand J. Kulkarni, Patrick Siarry, CRC Press, 2021, pp. 1-18.
- Marwa Sharawi, Eid Emary. "Clustering Optimization for WSN Based on Nature- Inspired Algorithms" Nature-Inspired Computation in Engineering. Springer International Publishing, 2016. 111-132.