

Faculty C.V.

1. **Name**

Marwa Sharawi

2. **Academic Rank**

Assistant Professor - Fulltime

3. **Degrees**

- Ph.D. Information Technology, Cairo University, Egypt, 2015.
- M.Sc. Information Technology, Cairo University, Egypt, 2008.
- B.Sc. Information Technology, Cairo University, Egypt, 2005.

4. **Service at this Institution**

Assistant Professor March 2024 - Current College of Engineering and Applied Sciences, American University of Kuwait (AUK), Kuwait.

Visiting Assistant Professor March 2021 - Current College of Engineering and Applied Sciences, American University of Kuwait (AUK), Kuwait.

Adjunct Assistant Professor Jan. 2018 - Feb. 2021 College of Engineering and Applied Sciences, American University of Kuwait (AUK), Kuwait.

5. **Professional Experience** *(Related experience in other institutions: include locations and dates.)*

- March 2021 – Current: Visiting Assistant Professor, College of Engineering and Applied Sciences, American University of Kuwait (AUK), Kuwait.
- Jan. 2018 - Feb. 2021: Adjunct Assistant Professor, College of Engineering and Applied Sciences, American University of Kuwait (AUK), Kuwait.
- Sept. 2016 - Aug. 2017: Program Coordinator (PC), Faculty of Computer Studies, Arab Open University (AOU), Egypt Branch, Egypt.
- Jan. 2016 - Aug. 2017: Assistant Professor, Faculty of Computer Studies, Arab Open University (AOU), Egypt Branch, Egypt.
- June 2011 - Jan. 2016: Lecturer, Faculty of Computer Studies, Arab Open University (AOU), Egypt Branch, Egypt.
- Sept. 2010 - Feb. 2011: Adjunct Lecturer Assistant, Faculty of Informatics and Computer Science, British University in Egypt (BUE), Egypt.
- May 2010 - Aug. 2010: Adjunct Lecturer, Foundation Studies IT (IFP), Middlesex University Dubai branch (MDX), UAE.
- Jan. 2010 - April 2010: Adjunct Lecturer, Computer Science Department, University of Sharjah (UOS), UAE.

- Sept. 2008 - June 2009: Lecturer Assistant, Faculty of Informatics and Computer Science, British University in Egypt (BUE), Egypt.
- May 2008 - Sept. 2008: Instructor (Certification for IT for Insurance Professionals) British Computer Society (BCS) and Chartered Insurance Institute (CII), Egypt.
- Sept. 2006 - Aug. 2008: Teacher Assistant, Faculty of Informatics and Computer Science, British University in Egypt (BUE), Egypt.
- Sept. 2005 - Aug. 2006: Teacher Assistant, Computer Science Faculty, Modern Sciences and Art University (MSA), Egypt.

6. **Professional Registration**

- IEEE member
- Certified Professional Trainer - Institute of Leadership and Management institute of leadership and management (ilm) UK.
- CITI certificated "Social-Behavioral-Educational (SBE) Comprehensive".
- Reviewer in IEEE transaction on Artificial Intelligence
- Reviewer in IEEE Access

7. **Publications**

a) Refereed Journals.

- Abdulaziz Althekair, Mohanned 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.
- Marwa Sharawi, Hossam M. Zawbaa," Impact of Levy Flight on Modern Meta-heuristic Optimizers". Journal of Applied Soft Computing, Elsevier, vol.75, pp. 775789, 2019.

b) Conferences

- 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, Mohanned 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.

c) Books

- 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.

9. **Membership in Professional Societies**

IEEE member

10. **Courses taught**

a) Academic Courses

Spring 2024

- CSIS120: Computer Programming I (2 sections, each 3 hours per week lectures, day)
- CSIS440: Software Project Management (3 hours per week lectures, day)
- CSIS476: Computer Security and Information Assurance (3 hours per week lectures, day)
- CSIS491: Capstone Project 2

Fall 2023

- CSIS120: Computer Programming I (3 sections, each 3 hours per week lectures, day)
- CSIS255: Web Technologies (Independent)
- CSIS322: Computer Network and Data Communication (3 hours per week lectures, day)
- CSIS490: Capstone Project 1

Spring 2023

- CSIS120: Computer Programming I (2 sections, each 3 hours per week lectures, day)
- CSIS150: Professional and Ethical Issues in CSIS (3 hours per week lectures, day)
- CSIS322: Computer Network and Data Communication (3 hours per week lectures, day)
- CSIS440: Software Project Management (3 hours per week lectures, day)

11. **Other Duties** *(Assigned committee/ administration duties performed during the academic year with average hours per week. Indicate which carry extra compensation.)*

- a) College level
 - Accreditation Committee
 - Academic Committee
 - CEAS Capstone Exhibition Committee
- b) Institution level
 - NASA Space Apps Challenge Hackathon Local Lead, 2024.
 - NASA Space Apps Challenge Organizing Committee, 2022.
 - EDUCON 2023 Organizing Committee, 2023.
- c) Outside the institution
 - Session Chair EDUCON 2023
 - Reviewer in IEEE transaction on Artificial Intelligence
 - Reviewer in IEEE Access

12. **Research**

AUK Research Grant AY22/23.

13. **Participation in Specific Programs**

- Legal Hacks: An Educator's Guide to Using AI Workshops
- Teaching Future Skills
- Effective Group Work Workshop
- Backward Course Design: Your Path to a More Meaningful Learning Experience for You and Your Students Workshop
- Exploring Classroom and Authentic Assessment Techniques Workshop
- Training Session: Streamlining Textbook Ordering Process