

# 1 Name & Rank: Abdulla M. Al-Mutawa, Associate Professor

## **2** Education

Degree	Discipline	Institution	Year
Ph.D.	Computer Science	Syracuse University	1999
M.S.	Computer Science	Syracuse University	1996
B.S.	Computer Engineering	Kuwait University	1994

# **3** Academic Experience

Institution	Designation	Year/Period
Ministry of Education	Consultant to HH Minister Of Education of Kuwait State	Mar 2024 - Present
University of Hamburg	Visiting Professor	Feb 2022Dec 2024
PLOS-ONE	Editorial Board Member	Nov 2022 - Present
MILSET	Scientific Consultant and Steering Board Member	Feb 2022 - Present
UNISCO-UN	International Expert and Consultant in AI-Ethical issues	Jan 2020 - Present
The E-learning Directors Committee at the Universities and Higher Education Institutions of Arab Gulf Cooperation Countries	Head of the Secretariat	Jul 2020Jan 2022
Kuwait University	Acting Vice President for Academic Support Services	Jul 2020Jan 2022
Kuwait University	Assistant Vice President for IT	Jun 2020Jun 2022
College of Engineering and Petroleum, Kuwait University	Director of E-Services and Engineering Education at the College of Engineering and Petroleum, Kuwait University	Sep 2017Sep 2019
Arab Robotic and AI Association	Board member of the Arab Robotic and Al Association	Oct 2016 - Present
ROBOTEC, Consultations in IT	Founder and CEO	Apr 2016 - Present
Kuwait University	Assistant Vice President for academic services for computer systems and distance learning	Oct 2012Oct 2014
Kuwait University	Director of the Office of Engineering Education	Oct 2005Oct 2012
Kuwait University	Associate Professor	Jul 2012 - Present
Kuwait University	Assistant Professor	May 1999Jul 2012
Kuwait University	Scholarship	July 1994 – May 1999
Al-Ihsan K12 School, Syracuse, NY, USA	K12-Computer Instructor (volunteer)	Sep 97 – Jun 98
Kuwait University	Teaching Assistant January	1994 – July 1994

### **4** Non-Academic Experience:

**5** Certifications / professional registrations:

#### **6** Membership in Professional Organization:

- IEEE Robotics and Automation Society: Piscataway, NJ, US
- IEEE Computer Society: Washington, DC, US
- IEEE Computational Intelligence Society: Piscataway, NJ, US
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- IEEE: New York, NY, US
- Association for the Advancement of Artificial Intelligence: Palo Alto, CA, US
- Association for Computing Machinery: New York, NY, US
- Arab Robot and Al Association: Amman, JO
- Mouvement International pour le Loisir Scientifique Et Technique (MILSET): Paris, FR
- Arab Robotic and AI Association: Amman, JO
- GCC Standardization Organization: Riyadh, Riyadh, SA

#### Honors and Awards:

- 8 His Highness Shaik Salem Al-Sabah Award in Informatics Excellence in Artificial Intelligence 2022
- 8 One of the architects of the ethics in AI worldwide agreement at UN
- 8 Adviser to His Excellency the Minister of Education in the State of Kuwait
- 8 Pioneer and visionary of the digital transformation movement in Kuwait
- 3 The author of the blended learning book and its impact on the development of critical thinking among the students
- 8 Winner of the first place in the Kuwait International Prize for the year 2012
- 8 Winner of the first place in the Kuwait International Prize for the year 2011
- 8 Winner of the first place in the Kuwait Electronic Award 2009
- 8 Establishing the first Gulf workshop on robotics in 2008
- 8 Won the first prize for best Poster among 300 other posters in the Second Scientific ResearchConference

### **8** Service Activities:

#### **9** Publications and Presentations (from the past five years):

- Martis, J.E.; M S, S.; R, B.; Mutawa, A.M.; Murugappan, M. Novel Hybrid Quantum Architecture-Based Lung Cancer Detection Using Chest Radiograph and Computerized Tomography Images. *Bioengineering* 2024, *11*, 799. https://doi.org/10.3390/bioengineering11080799
- A.M. Mutawa, An end-to-end Tacotron model versus pretrained Tacotron model for Arabic text-to-speech synthesis, Journal of Engineering Research (JER), Aug 22, 2023
- Mutawa, A.M.; Al Mudhahkah, H.M.; Al-Huwais, A.; Al-Khaldi, N.; Al-Otaibi, R.; Al-Ansari, A. Augmenting Mobile App with NAO Robot for Autism Education. *Machines* 2023, *11*, 833. https://doi.org/10.3390/machines11080833
- Mutawa AM, Alnajdi S, Sruthi S. Transfer Learning for Diabetic Retinopathy Detection: A Study of Dataset Combination and Model Performance. *Applied Sciences*. 2023; 13(9):5685. https://doi.org/10.3390/app13095685
- Mutawa AM, Al Muttawa JAK, Sruthi S. The Effectiveness of Using H5P for Undergraduate Students in the Asynchronous Distance Learning Environment. *Applied Sciences*. 2023; 13(8):4983. https://doi.org/10.3390/app13084983

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0284021

Abisha, S., Mutawa, A. M., Murugappan, M., & Krishnan, S. (2023). Brinjal leaf diseases detection based on discrete Shearlet transform and Deep Convolutional Neural Network. *Plos one*, *18*(4), e0284021.

- https://www.intechopen.com/online-first/1129171
  Mutawa, A. M. (2023). Perspective Chapter: MOOCS at Higher Education: Current State and Future Trends
- A.M. Mutawa, S.T. Tolba, "Digital Twin of a Data Center at Education Institution", Journal of Engineering Research, Submitted 17-10-2021, Revised 17-1-2022, Accepted 2-2-2022, Published 20-3-2022
- A.M. Mutawa, M Arami, 2022, 'Antecedences of Continued Blended Learning Adoption Intentions: A Framework for Acceptance of Blended Distance Learning', Journal of Engineering Education, Vol 10 No 2A, pp. 72-81, DOI: https://doi.org/10.36909/jer.14171
- A.M. Mutawa, S. Sruthi, "STUDENTS' PERSPECTIVE TOWARDS ONLINE PROCTORING IN EXAMS DURING COVID-19", Journal of Engineering Research, 2022
- M Murugappan, A M Mutawa, 2021 'Facial geometric feature extraction based emotional expression classification using machine learning algorithms', PLOS ONE, vol1 6(2): doi: 10.1371/journal.pone.0247131. PMID: 33600467; PMCID: PMC7891769.
- S. Alnajem, A.M. Mutawa, H. AlMeer, A. AlQemlas, 2021, 'A Prolog-based approach to Arabic syntax and semantics' Journal of Eng. Research Vol. 9 No. (3A) September 2021 pp. 134-142, https://doi.org/10.36909/jer.v9i3A.10129
- Aya Hassouneh, A.M. Mutawa, M Murugappan, "Development of a Real-Time Emotion Recognition System Using Facial Expressions and EEG Based on Machine Learning and Deep Neural Network Methods", Informatics in Medicine Unlocked. 2020
- A.M. Mutawa, 2019. "Single Channel Speech Enhancement using a Complex Spectrum Method", International Journal of Circuits, Systems and Signal Processing, Vol. 13, pp. 667-677.
- A.M. Mutawa. 2020, 'Improving Patient Voice Intelligibility by using a Euclidian Distance-Based Approach to Improve Voice Assistant Accuracy', International Journal of Circuits, Systems and Signal Processing, Vol 14, pp 329-339
- https://www.sciencedirect.com/science/article/pii/S0933365718302380
  A.M. Mutawa, Mariam A. Alzuwawi, 2019, 'Multilayered rule-based expert system for diagnosing uveitis', Artificial Intelligence in Medicine,vol 99

#### **Books and Chapters**

- A.M. Mutawa. "Government Digital Transformation: A road map" The Gulf Study Center, Kuwait University, June 2023. DOI: 10.5772/intechopen.1001367
- A.M. Mutawa, "Perspective Chapter: MOOCS at Higher Education: Current State and Future Trends," in Massive Open Online Courses - Current Practice and Future Trends, G. Dr. Sam Ed. Rijeka: IntechOpen, 2023, Peer-reviewed chapter. Submitted: January 28th, 2023 Reviewed: February 22nd, 2023 Published: March 28th, 2023. DOI: 10.5772/intechopen.1001367
- A.M. Mutawa, "DISTANCE LEARNING IN A PANDEMIC CHALLENGES, OPPORTUNITIES, AND ASSESSMENT STRATEGIES", Eliva Press SRL, peer-reviewed book. ISBIN-10: 9994988581. July. 2023.
- A.M. Mutawa. "Chat GPT and the Future of Education in the Age of Artificial Intelligence in the Gulf Countries" The Gulf Study Center, Kuwait University, 2023

Recent Professional Development Activities: