



Dr. Dina Abdullah Alabbad

Assistant Professor
Computer Engineering Department
College of Computer Science and Information Technology

Personal Data

Nationality | Saudi

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Language Proficiency

Language	Read	Write	Speak
Arabic	Native	Native	Native
English	Fluent	Fluent	Fluent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
Nov 2019	PhD in Artificial Intelligence	The University of Manchester	Manchester - United Kingdom
Nov 2012	Master's in Advanced Computer Science with specialization in Artificial Intelligence	The University of Manchester	Manchester - United Kingdom
May 2002	Bachelor's in Computer Science	Girl's Aljobail College of Education, IAU	Aljobail – Saudi Arabia

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	An Investigation into Approaches to Text-to-Speech Synthesis for Modern Standard Arabic
Master	Natural Sounding Synthetic Speech



Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Manager	Data Management Office, Imam Abdulrahman bin Faisal University	4/2022 - Present
Department Chair	Computer Information Systems - College of Computer Science and Information Technology, IAU	8/2020 - Present
Acing Department Chair	Computer Engineering Department - College of Computer Science and Information Technology, IAU	1/2021 -3/2021
Assistant of vice dean for academic affairs	College of Computer Science and Information Technology, IAU	1/2020 -8/2020

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Assistant Professor	Department of Computer Engineering	College of Computer Science and Information Technology	Imam Abdulrahman Bin Faisal (IAU)	2020 - Present
Lecturer	Department of Computer Science	College of Computer Science and Information Technology	Imam Abdulrahman Bin Faisal (IAU)	2013-2020
Teaching Assistant	Department of Computer Science	College of Science	Imam Abdulrahman Bin Faisal (IAU)	2002 – 2013

Scientific Achievements

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences and Journals

Sr.	Authors	Title of the paper	Journal Name and Publisher	Year
1	Saqib Saeed , Salha A. Altamimi , Norah A. Alkayyal , Ebtisam Alshehri and Dina A. Alabbad	Digital Transformation and Cybersecurity Challenges for Businesses Resilience: Issues and Recommendations	Sensors https://www.mdpi.com/1424-8220/23/15/6666	2023
2	Sumayh S Aljameel, Manar Alzahrani, Reem Almusharraf, Majd Altukhais, Sadeem Alshaia, Hanan Sahlouli, Nida Aslam, Irfan Ullah Khan, Dina A Alabbad , Albandari Alsumayt	Prediction of Preeclampsia Using Machine Learning and Deep Learning Models: A Review	Big Data and Cognitive Computing https://doi.org/10.3390/bdcc7010032	2023



3	Osama Khalid, Subhan Ullah, Tahir Ahmad, Saqib Saeed, Dina A Alabbad , Mudassar Aslam, Attaullah Buriro, Rizwan Ahmad	An Insight into the Machine-Learning-Based Fileless Malware Detection	Sensors https://doi.org/10.3390/s23020612	2023
4	Hina Gull, Dina A Alabbad , Madeeha Saqib, Sardar Zafar Iqbal, Tooba Nasir, Saqib Saeed, Abdullah M Almuhaideb	E-Commerce and Cybersecurity Challenges: Recent Advances and Future Trends	Handbook of Research on Cybersecurity Issues and Challenges for Business and FinTech Applications DOI: 10.4018/978-1-6684-5284-4.ch005	2023
5	Dina A Alabbad , Abdullah M Almuhaideb, Shikah J Alsunaidi, Kawther S Alqudaihi, Fatimah A Alamoudi, Maha K Alhobaishi, Naimah A Alaqeel, Mohammed S Alshahrani	Machine learning model for predicting the length of stay in the intensive care unit for Covid-19 patients in the eastern province of Saudi Arabia	Informatics in Medicine Unlocked https://doi.org/10.1016/j.imu.2022.100937	2022
6	Saqib Saeed, Madeeha Saqib, Dina A Alabaad , Asiya Abdus Salam, Hina Gull, Sardar Zafar Iqbal	Student engagement and assessment during COVID-19: a case study from an information systems undergraduate program in Saudi Arabia	International Journal of Higher Education and Sustainability https://doi.org/10.1504/IJHES.2022.123436	2022
7	Mudassar Aslam, Muhammad Abbas Khan Abbasi, Tauqeer Khalid, Rafi us Shan, Subhan Ullah, Tahir Ahmad, Saqib Saeed, Dina A Alabbad , Rizwan Ahmad	Getting Smarter about Smart Cities: Improving Data Security and Privacy through Compliance	Sensors https://doi.org/10.3390/s22239338	2022
8	Dina A Alabbad , Nouha O Alsaleh, Naimah A Alaqeel, Yara A Alshehri, Nashwa A Alzahrani, Maha K Alhobaishi	A Robot-based Arabic Sign Language Translating System	7th International Conference on Data Science and Machine Learning https://doi.org/10.1109/CDMA54072.2022.00030	2022
9	Hina Gull, Saqib Saeed, Sardar Zafar Iqbal, Yasser A Bamarouf, Mohammed A Alqahtani, Dina A Alabbad , Madeeha Saqib,	An Empirical Study of Mobile Commerce and Customers Security Perception in Saudi Arabia	Electronics https://doi.org/10.3390/electronics11030293	2022



	Saeed Hussein Al Qahtani, Albandary Alamer			
10	Saqib Saeed, Abdullah M Almuhaideb, Yasser A Bamarouf, Dina A Alabaad , Hina Gull, Madeeha Saqib, Sardar Zafar Iqbal, Asiya Abdus Salam	Sustainable Program Assessment Practices: A Review of the ABET and NCAAA Computer Information Systems Accreditation Process	International Journal of Environmental Research and Public Health https://doi.org/10.3390/ijerph182312691	2021
11	Madeeha Saqib, Tooba Nasir, Hina Gull, Dina A Alabbad , Sardar Zafar Iqbal	Challenges and Implications of Digital Transformation in Higher Education: A Student Perspective from Pakistan and Saudi Arabia	Pandemic, Lockdown, and Digital Transformation: Challenges and Opportunities for Public Administration, NGOs, and Businesses https://link.springer.com/chapter/10.1007/978-3-030-86274-9_9	2021
12	Sumayh S Aljameel, Dina A Alabbad , Norah A Alzahrani, Shouq M Alqarni, Fatimah A Alamoudi, Lana M Babili, Somiah K Aljaafary, Fatima M Alshamrani	A Sentiment Analysis Approach to Predict an Individual's Awareness of the Precautionary Procedures to Prevent COVID-19 Outbreaks in Saudi Arabia	International journal of environmental research and public health https://doi.org/10.3390/ijerph18010218	2020

Current Research

#	Research Title	Status
1	A Review of Oil & Gas Pipelines Leakage Detection Approaches	Submitted, under review
2	Analytical Model for early prediction of Course dropout in undergrad level in the college of computer science and Information Technology in Saudi Arabia	Submitted, under review
3	A comparison of Text-to-Speech techniques for Modern Standard Arabic	Ready for submission
4	An Objective Evaluation System for Modern Standard Arabic Synthetic Speech	Ready for submission



5	Predictive Model for detecting the need of Covid-19 Patients for Nasal Oxygen Support in the Eastern Province of Saudi Arabia	Ready for submission
6	The Effect of GAT Score on Computer Sciences Students Recruitment	In Progress
7	Investigating the affects to the performance of Students at Risk in Computer Sciences Education	In Progress
8	COVID-19 prediction using machine learning based on the patient's vital signs: A case study from Saudi Arabia	In Progress

Projects

#	Name of Project	Time	Organization
1	Developing “Qiyas” test for Artificial Intelligence track	Current	Education and Training Evaluation Commission
2	Reviewing Artificial Intelligence textbooks for the Computer Science and Engineering track	Current	Ministry of Education
3	Building Knowledge framework for National accreditation for Artificial intelligence undergraduate programs track	Current	Education and Training Evaluation Commission
4	Prediction model for Fetal Weight	Current	CCSIT- IAU
5	Improving Customer's Experience in Dammam Airport	Current	CCSIT- IAU
6	Plant Disease Detection Using Image Processing and Deep Learning	2022	CCSIT- IAU
7	“I Grade” an Auto Grading System for Essay Questions	2022	CCSIT- IAU
8	A Robot-based Arabic Sign Language Translating System	2021	CCSIT- IAU
9	Educational system for children with special needs	2020	CCSIT- IAU



Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Project Implementation	ARTI 521	Supervising graduation project
2	Project Proposal	ARTI 511	Supervising graduation project
3	Knowledge Representation and Reasoning	ARTI 504	Building course content-Responsible for delivering course material and assessment.
4	Natural Language Processing	ARTI 501	Building course content-Responsible for delivering course material and assessment.
5	Artificial Intelligent: Principles and Techniques	ARTI 401	Responsible of delivering course material and assessment.
6	Software Quality Assurance	CIS 512	Building course content-Responsible for delivering course material and assessment.
7	Computer Data Security and Privacy	CIS 425	Building course content-Responsible for delivering course material and assessment.
8	Introduction to computing	CS 211	Responsible for delivering course material and assessment.
9	System Analysis and Design	CIS 417	Responsible for delivering course material and assessment

Projects Supervision

#	Project Title	Role	Year
	Prediction model for Fetal Weight	Main Supervisor	Current
1	Improving Customer's Experience in Dammam Airport	Main Supervisor	Current
2	Plant Disease Detection Using Image Processing and Deep Learning	Co- supervisor	Completed - 2022
3	"I Grade" an Auto Grading System for Essay Questions	Main supervisor	Completed - 2022
4	A Robot-based Arabic Sign Language Translating System	Main supervisor	Completed - 2021
5	Educational system for children with special needs	Main Supervisor	Completed - 2020



Scientific Consultation

#	From	To	Position	Part time/full time
1	2023	Current	AI consultant – Monshaat, Thakaa Center	Part time

Administrative Responsibilities, Committee and Community Service

Committee Membership

#	From	To	Position	Organization
1	2023	Current	member	Succession Planning committee - Office of the Vice President for Development and Community Partnership
2	2022	Current	member	Improving the university website committee - Office of the Vice President for Development and Community Partnership
3	2022	Current	Head	Foundation of data management office committee -Office of the Vice President for Development and Community Partnership
4	2022	current	member	Learning analytics committee – Office of Vice President for Academic Affairs
5	1/2020	12/2020	Assistant of Vice Dean	Academic Affairs – CCSIT - IAU
6	1/2020	12/2020	Member	Faculty Search Unit– CCSIT - IAU
7	1/2020	12/2020	Member	AI Program Quality– CCSIT - IAU
8	1/2020	12/2020	Member	Coop Training Unit -CCSIT - IAU
9	1/2020	12/2020	Member	Student Advisory Unit – CCSIT - IAU
10	1/2012	8/2014	Member	Academic Affairs - CCSIT - IAU
11	1/2012	8/2014	Member	Student Advisory Unit – CCSIT - IAU

Workshops/Conferences Attended

- Business Intelligence Applications in Government sectors- Digital Movement Authority 2023
- Questions writing arts- Education and Evaluation Commission 2023
- Saudi Leadership Program: Resilient Leadership: Creating Value Through Corporate Governance- King Abdullah University of Science and Technology (KAUST) 2022
- Innovative Leadership workshop – IAU 2022
- The Sustainable Table for University Leaders – IAU 2021
- Integrating Machine Learning and Cyber Security with Applications in Internet of Transportation and Infrastructures – Saudi Aramco Cyber Security Chair 2021
- Indicative preparation for faculty members - IAU 2021



- Leadership Competencies diploma – IAU 2021
- SAI Intelligent Systems Conference -London 2018- UK
- The 9th Saudi Conference in United Kingdom – Birmingham 2016 – UK.
- The 2016 Speech processing Workshop in Crete summer school on speech synthesis – Crete 2016 - Greece
- Female university seminar – Saudi Aramco 2014.
- Course portfolio workshop – University of Dammam 2013.
- Effective English communication skills via self-directed learning workshop – Saudi Aramco 2008.