Dr. Deemah Alqahtani

Assistant Professor

Personal Data

Nationality | Saudi

Department | Computer Science

Official IAU Email | daalqahtani@iau.edu.sa

Language Proficiency

Language	Read	Write	Speak
Arabic	√	√	√
English	√	√	√
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
24 June 2021	PhD in Computer Science	University of Manchester	The University of Manchester Manchester M13 9PL
10 November 2016	MSc in Advanced Computer Science with Specialisation in Software Engineering with Distinction	University of Manchester	The University of Manchester Manchester M13 9PL
4 June 2012	BSc in Software Engineering with First Honour	University of Hail	University of Hail Hail P.O. Box: 2240

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

PhD	Addressing Barriers to Reflection in Physical Activity Tracking
Master	An Interactive Widget to Visualise the Allergy Symptoms of a Country (Distinction)
Fellowship	

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Assistant Professor	Department of Computer Science	College of Computer Science and Information Technology, Imam Abdulrahman bin Faisal University Dammam 34212	09 May 2022
Lecturer	Department of Computer Science	College of Computer Science and Information Technology, Imam Abdulrahman bin Faisal University Dammam 34212	31 December 2019
Teaching Assistant	Department of Computer Science	College of Computer Science and Information Technology, Imam Abdulrahman bin Faisal University Dammam 34212	18 September 2013

Scientific Achievements

Published Refereed Scientific Researches
(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
	Nehad M. Ibrahim, Ali A. Alharbi, Turki A. Alzahrani, Abdullah M. Abdulkarim, Ibrahim A. Alessa, Abdullah M. Hameed, Abdullaziz S. Albabtain, **Deemah A. Alqahtani**, Mohammad K. Alsawwaf and Abdullah A. Almuqhim	Well Performance Classification and Prediction: Deep Learning and Machine Learning Long Term Regression Experiments on Oil, Gas, and Water Production	MDPI Sensors Published: July 2022
	Deemah Alqahtani, Caroline Jay and Markel Vigo	Spatio-temporal and contextual cues to support reflection in physical activity tracking	Academic Press International Journal of Human-Computer Studies Published: May 2022
	Deemah Alqahtani, Caroline Jay and Markel Vigo	The Effect of Goal Moderation on the Achievement and Satisfaction of Physical Activity Goals	ACM The Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)

			Published: December 2020
	Dilek Dustegor, Nahid Sultana, Noor Felemban and **Deemah Alqahtani**	A smarter electricity grid for the Eastern Province of Saudi Arabia: Perceptions and policy implications	Pergamon Utilities Policy Published: February 2018

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
	Deemah Alqahtani, Caroline Jay and Markel Vigo	The Role of Uncertainty as a Facilitator to Reflection in Self-Tracking	DIS '20: Proceedings of the 2020 ACM Designing Interactive Systems Conference Published: 3 July 2020
	Dilek Dustegor, Nahid Sultana, Noor Felemban and **Deemah Alqahtani**	Public acceptance of renewable energy and Smart-Grid in Saudi Arabia	IEEE GCC Conference & Exhibition Published: 16 March 2015
	Dilek Dustegor, Nahid Sultana, Noor Felemban and **Deemah Alqahtani**	On Renewable Energy for Sustainable Development-Public Acceptance of the Smart-Grid in Saudi Arabia	The 8th IEEE GCC conference and exhibition Published: January 2015

Current Researches

#	Research Title	Name of Investigator(s)
	Understanding how pregnancy tracking apps support Pregnant women to reflect on their pregnancy experience	Deemah Alqahtani, Noorah Alqahtani
	An explainable artificial intelligence model for automatic detection of eczema	Deemah Alqahtani, Sumayh Aljameel, Nouf Binrubaian
	A sentiment analysis approach to predict individuals' health and fitness awareness in Saudi Arabia	Deemah Alqahtani and Sumayh Aljameel

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	UbiComp '21: The 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing	Virtual, 21 — 26 , September 2021	Paper presentation

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Operating Systems	CS 322	3 lectures and 3 labs per week
	Object-Oriented Programming 2	CS 321	2 lectures per week
	Project Proposal	CS511	Co-Supervisor
	Software Engineering	CS 411	6 Lectures per week
	Selected Topics in Computer Science	CS 522	

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

CS 322 - Operating Systems: In this course students take the basic concepts of operating systems including Operating Systems Overview, process description and control, threads, CPU scheduling, memory management, virtual memory, I/O management and disk scheduling, deadlock and file management.
CS 321 - Object-Oriented Programming 2: The main purpose of this course is to develop the understanding of advanced OOP topics using a high-level object-oriented programming language. The focus of the course is on the design and implementation of event-driven applications. Main topics include: exception handling, multithreading, applets, event-driven programming, database connectivity, application programming interfaces (APIs) and the object-oriented graphical user interfaces using SWING
CS 411 Software Engineering: This course presents both technical and managerial software engineering problems. Students are exposed to fundamental aspects including the software life cycle and its phases, the software development models, Software Processes, Project Management, Project Planning, Agile Software Development and different specialized systems. Emphasis are placed on the software engineering life cycle phases: including

SPMP, Software requirement specification, Design, and implementation. The software validation (testing, testing levels, test case generation, black-box and white-box testing techniques) and the software evolution (maintenance, reuse, reengineering, legacy systems) are covered.

CS 522 Selected Topics in Computer Science: Topics are selected from different areas in Computer Science, such as Machine Learning, that are not covered in the description of the courses listed in the curriculum.

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
	2023	Present	Chair	Networks and Communications Department

Committee Membership

#	From	To	Position	Organization
	2023	2023	Head	CS Postgraduate Unit, IAU
	2022	Present	Member	CCSIT College Council
	2021	2023	Member	Academic Accreditation Unit, IAU
	2021	2022	Member	Teaching and Learning Unit, IAU
	2015	2015	Member	Career Day Technical and Website Development Committee, IAU
	2014	2015	Member	Exams Committee, IAU

Last Update

10/09/2023