FACULTY FULL NAME: Mona Saleh Mohamed Alghamdi

POSITION:Senior Lecturer

Personal Data

Nationality | Saudi Arabian

Date of Birth | 01/05/1986

Department | Computer Science in College of Science and Humanities at Imam Abdulrahman bin Faisal University in Jubail

Official UoD Email | msmalghamdi@iau.edu.sa

Office Phone No. | 0508755455

Language Proficiency

Language	Read	Write	Speak
Arabic	Fluent	Fluent	Fluent
English	Excellent	Excellent	Excellent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
05/07/2023	Degree of philosophy in computer science	Lancaster, United Kingdom	Lancaster university, Lancaster, United Kingdom, LA1 4YW
21/07/2012	Master of science in distributed data management	Hatfield, United Kingdom	University of Hertfordshire, United Kingdom,
01/07/2007	Bachelor degree in science and education of computer science	Jubail, Kingdom of Saudi Arabia	7999 Al Masjid Rd, Fanateer, Jubail 35811, Imam Abdulrahman Bin Faisal university

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

PhD	Machine Learning Methods for Human Identification from Dorsal Hand Images
Master	An Analysis and Evaluation of Relational Online Analytical Processing (ROLAP) Capabilities in Leading Relational Database Management Software

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Lecturer (contract)	Jubail	7999 Al Masjid Rd, Fanateer, Jubail 35811, Imam Abdelrahman bin Faisal university	Kingdom of Saudi Arabia	25/07/ 2012
Lecturer	Jubail	7999 Al Masjid Rd, Fanateer, Jubail 35811, Imam Abdulrahman Bin Faisal University	Kingdom of Saudi Arabia	16/07/2013 till now

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Manager	Enjazati office	2013-2015

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
1	Mona Alghamdi	Machine Learning Methods for Human Identification from Dorsal Hand Images	E-theses on-line service (Ethos), 2023 Lancaster university e-print, 2023 Saudi Digital Library (SDL), 2023
2	Mona Alghamdi, Plamen Angelov, and Lopez Pellicer Alvaro	Person identification from fingernails and knuckles images using deep learning features and the Bray-Curtis similarity measure.	Neurocomputing, 2022

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
	Mona Alghamdi	A Multi-modal Biometric Approach Based on Score-level Fusion and Fine-tuning Deep Learning Features	IEEE 11th International Conference on Intelligent Systems (IS), 2022
	Mona Alghamdi, Plamen Angelov, and Bryan Williams	Automated Person Identification Framework Based on Fingernails and Dorsal Knuckle Patterns	IEEE Symposium Series on Computational Intelligence (SSCI), 2021
	Mona Alghamdi, Plamen Angelov, Mariana Rufino, Raul Gimenez, and Eduardo Almeida Soares	Self-Organising and Self-Learning Model for Soybean Yield Prediction	6th International Conference on Social Networks Analysis, Management and Security (SNAMS), 2019.

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	Investigator: Mona Alghamdi Supported by: Imam Abdulrahman Bin Faisal University	Machine Learning Methods for Human Identification from Dorsal Hand Images	28/06/2023

Current Researches

#	Research Title	Name of Investigator(s)
1	**A survey on human identification using dorsal hand images**	Mona Alghamdi
2	**A Method for Identification of Humans from Dorsal Hand Sub-images using a Siamese Network Models**	Mona Alghamdi and Lopez Pellicer Alvaro

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution

Membership of Scientific and Professional Societies and Organizations

- **IEEE Membership**
- **IEEE Computational Intelligence Society Membership**

- **IEEE Computer Society Membership**
- **IEEE Biometrics Council**
- **Transactions on Biometrics, Behavior and Identity Science, IEEE**

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Fundamental of Information System	CIS 105	2hours/15 week lectures
	Artificial Intelligence	CS 512	8 hours/15 weeks lectures and labs
	Research Proposal	CS 511	2 hours/15 weeks

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

CIS 105 course aims to acquaint students with the fundamental principles of modern Information Systems (IS) and their application within global organizations. It will delve into key subjects such as the essential elements of information systems: individuals, software, hardware, data, and communication technologies. Furthermore, the course will equip students with the understanding of how to utilize and manage these information system components to enhance the competitive edge and quality standards of both local and global organizations. Additionally, the course encompasses topics related to the development and procurement of information systems, including contemporary software trends prevalent in today's organizations and society. It will also impart knowledge on safeguarding information system resources by focusing on information security principles and concerns. Lastly, students will gain insights into potential career paths and the social and ethical responsibilities associated with this field.
CS 512 course provides an introduction to new-generation computers and the field of artificial intelligence. It covers topics such as the definition of artificial intelligence, programming languages for AI, and their programming applications. The course also explores various aspects of artificial intelligence, including robots, image processing, expert systems, neural networks, natural language processing, machine learning, and game design. Additionally, it delves into knowledge representation methods, such as mathematical logic, relational databases, tables, frames, and semantic networks. Furthermore, the course covers search and conclusion methods, including systematic search, example search, relational database search, and genetic search.
In CS 511 course, students choose a project within the field of Artificial Intelligence that interests them. They then create a project proposal that includes defining the project's objectives, stating the problem it aims to address, conducting a literature review, specifying system requirements, outlining software design details, and proposing multiple potential solutions to the problem. They also perform feasibility studies for these candidate solutions and ultimately select the most suitable one for their study.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)

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

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
	Fundamental of Information System – CIS105	Dr. Mona Alghamdi	N/A	Yes	N/A	20/08/2023	16/11/2023
	Artificial Intelligence	Dr. Mona Alghamdi	N/A	Yes	N/A	20/08/2023	16/11/2023

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Undergraduate students	4	20/08/2023	16/11/2023

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	Undergraduate students	GEO AI	Imam Abdulrahman bin Faisal University	03/09/2023

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

Administrative Responsibilities

#	From	To	Position	Organization
	07/2014	11/2015	Enjazati adminstrator	Imam Abdulrahman Bin Faisal University

Committee Membership

#	From	To	Position	Organization
	20/08/2023	Now	Scientific research department's coordinator	Imam Abdulrahman Bin Faisal University

Scientific Consultations

#	From	To	Institute	Full-time or Part-time

Volunteer Work

#	From	To	Type of Volunteer	Organization

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Ability to work together as a team or individual.

2	Responsible for completing the workspace tasks.
3	Fast learner in the workspace.
4	The ability to adjust to new environments.
5	The capacity to learn novel skills in technology or research.

Last Update

04/09/2023