Academic Resume

Mayda Alrige

Associate Professor, Information Systems Department

Mayda Alrige is an Associate Professor of Information Systems at King Abdulaziz University with expertise in knowledge-based systems, including fuzzy logic and ontologies. Her research is centered on utilizing expert systems and ontologies for nutrition education and diet recommendation, with a focus on mobile and ubiquitous technologies for the healthcare sector and smart cities. She has published extensively in highly ranked ISI journals such as JMIR and IEEE Access.

Contact Information.

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Highest Degree.

2018, PhD, Information Systems and Technology, Claremont Graduate University (CGU), USA.

Academic and Professional Experiences.

1. **2021 - Present**
   supervisor of the professional high diploma in cybersecurity at King Abdelaziz University:, , .
2. **2019 - Present**
   Coordinator of senior projects, , .
3. **2018 - Present**
   Assistant Professor, FCIT, KAU.
4. **2017 - 2018**
   Teaching assistant, CGU, Claremont Colleges.
5. **2009 - 2010**
   Teaching Assistant, , .

Research Interests.

Data Science for Ambient intelligence and Ubiquitous Computing, Rule-base Systems and Fuzzy Logic, Consumer Informatics and Patients Empowerment.

Teaching Interests.

Penetration Testing, Decision Making Theory and practice, Web Development, Software Testing.

Certifications and Trainings.

1. • Certificate of Attendance “You Parish, Even if You Publish, The problem of Impersonation” by Prof, Refaat Alshabooni from Deanship of Scientific Research, 27/3/2019..
2. Certificate of completion on "Writing for ISI Journals" ;KAU, Centre for Teaching and Learning Development&rdquo; by Dr. Zuhair Natto, September 2020.
3. Certificate of Attendance "Get Connected" from CISCO platform (Netacad.com), 16/12/2019..
4. Certificate of Attendance “Writing MCQs Questions” from Deanship of Quality and Academic Accreditation (KAU),.
5. Certificate of Attendance of workshop on Machine Learning by prof. Mohammad Fouad, March 2020..
6. Certificate of Attendance in a Workshop of Research and Innovation in Alhajj and Alomrah, July,8,2021.
7. Certificate of completion on Good Clinical Practice from NIDA Clinical Trials Network in June, 2020.
8. Certificate of Attendance: Analysis of LMS Big Data from Deanship of e-learning (KAU), 28/10/2019..
9. Certificate of Completion, University Teacher Professional Development Diploma, CTLD at KAU.
10. Reearch Excellence Forum REF 2022 (vpgssr_kau).
11. Certificate of Completion, MIT-IDSS Data Science and Machine Learning (DSML).
12. Building AI Products with OpenAI, in collaboration with OpenAI, August 2023.

Social, Scientific and Professional Affiliation.

1. 2021-Present, Member, AI -driven precision genomics unit at the KAU-Oxford center of Artificial Intelligence of Precision Medicine (CAIPM):.
2. 2021-Present, leader of the Data Science and AI in healthcare research group, Saudi Bioinformatics and AI consortium (SBAIC).

Excellence Awards and Patents.

1. 2018, International, Dietary algorithm to calculate nutritional value for different type-2 diabetics, United States Patent and Trademark Office.
2. 2017, International, Recipient of CGU Travel Award Fall 2017, for participation in a top-tier conference in the field of Health Informatics: the annual symposium of the American Medical Informatics Association (AMIA17)., CGU.

Funded Projects.

1. 2020, The Effect of a Customized Nutrient-Profiling Approach on the Glycated Hemoglobin Levels of Patients With Type 2 Diabetes: Quasi-Experimental Study, KAU, G-276-612-1440.
2. 2020, Mhealth for MSUD Patients : A Case Study of A Knowledge -Base Tool to Manage Protein-Restricted Diet IFPHI-376-612-2020, KAU
3. 2020, Promoting Precautionary Behavior During the COVID-19 Pandemic: Development and Validation of a Behavior-Change Messaging Campaign, CGU, GCV19-11-1441.
4. 2020, Use Of Deep Learning to Compare Regressive against Auto-Regressive Decoding for Arabic TTS IFPHI-377-612-2020, KAU

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Publications.

1. Mayda Alrige *, Haneen Banjar, Taghreed Shuaib, Amal Ahmad, Raghad Gharbawi, "Knowledge-Based Dietary Intake Recommendations Of Nutrients For Pediatric Patients With Maple Syrup Urine Disease.", Healthcare, 2023.
2. Mayda Alrige, Hind Bitar, Maram Meccawy, Balakrishnan Mullachery, "Utilizing Geospatial Intelligence And User Modeling To Allow For A Customized Health Awareness Campaign During The Pandemic: The Case Of Covid-19 In Saudi Arabia.", Journal Of Infection And Public Health, 2022.
   DOI: 10.1016/j.jiph.2022.08.018
3. Mayda Alrige, "The Role Of Digital Contact Tracing Tools In Fostering Resilience In Smart Cities: An Empirical Study", 39th Ibima International Conference, 2022.
4. Mayda Alrige, Fatimah Alshahrani, Amani Alharbi, Nouf Aljuhani, Nuha Aldini, "The Effects Of Empowerment On Health Care Worker Performance During The Covid-19 Pandemic In Saudi Arabia", Quality Management In Health Care, vol: Publish Ahead of Print, 2022.
   DOI: 10.1097/QMH.0000000000000337
5. Hind BITAR, Ayman ALFAHID, Mayda ALRIGE, Wed ABOGAZAH, Noura ALSANBI, "Ana Alsukary: An Android Mobile Application To Support Diabetic Children And Parents In Saudi Arabia", Revista Rom&Amp;Acirc;N? De Informatic? ?I Automatic?, vol: 32, pp. 73-86, 2022.
   DOI: 10.33436/v32i1y202206
6. Haneen Banjar, Rahaf Alrowithi, Sara Alhadrami, Esraa Magrabi, Reema Munshi, Mayda Alrige, "An Intelligent System For Proper Management And Disposal Of Unused And Expired Medications", Int J Environ Res Public Health. 2022 Mar 1;19(5):2875. Doi: 10.3390/Ijerph19052875. Pmid: 35270568; Pmcid: Pmc8910225. Impact Factor:3.39, vol: 19, pp. 2875, 2022.
   DOI: 10.3390/ijerph19052875
7. Mayda Alrige, Hind Bitar, Waad Al-Suraihi, Kholoud Bawazeer, Ekram Al-Hazmi, "Microworld: An Augmented-Reality Arabian App To Learn Atomic Space", Technologies, vol: 9, pp. 53, 2021.
   DOI: 10.3390/technologies9030053
8. Mayda Alrige, Hind Bitar, Joud Aljaeed, Somaiah Alasmari, "Turbine Recommender: The Selection Of Wind Turbine Type Using One Of A Machine Learning Technique", International Journal Of Advanced And Applied Sciences, vol: 9, pp. 119-127, 2021.
   DOI: 10.21833/ijaas.2022.02.013
9. Bashaier Almotairi, Mayada Alrige, Salha Abdullah, "Personalized Recommender System For Arabic News On Twitter", International Journal Of Advanced Computer Science And Applications, vol: 12, 2021.
   DOI: 10.14569/IJACSA.2021.0121248
10. Ayman Alfahid, Hind Bitar, Mayda Alrige, Hend Abeeri, Eman Sulami, "Doitright: An Arabic Gamified Mobile Application To Raise Awareness About The Effect Of Littering Among Children", International Journal Of Advanced Computer Science And Applications, vol: 12, 2021.
    DOI: 10.14569/IJACSA.2021.0121220
11. Mayda Alrige, Hind Bitar, Maram Meccawy, "Promoting Precautionary Behavior During The Covid-19 Pandemic: Development And Validation Of A Behavior-Change Messaging Campaign", Journal Of Infection And Public Health, 2021.
    DOI: 10.1016/j.jiph.2021.09.026
12. Mayda Alrige, Riad Alharbey, Samir Chatterjee, "The Effect Of A Customized Nutrient-Profiling Approach On The Glycated Hemoglobin Levels Of Patients With Type 2 Diabetes: Quasi-Experimental Study", Journal Of Medical Internet Research, vol: 22, pp. e15497, 2020.
    DOI: 10.2196/15497

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Publications.

13. Muhammad Shahid Iqbal, Bin Luo, Rashid Mehmood, Mayda Abdullateef Alrige, Riad Alharbey, "Mitochondrial Organelle Movement Classification (Fission And Fusion) Via Convolutional Neural Network Approach", Ieee Access, vol: 7, pp. 86570-86577, 2019.

    DOI: 10.1109/ACCESS.2019.2925041

14. Mubbashir Ayub, Mustansar Ali Ghazanfar, Zahid Mehmood, Tanzila Saba, Riad Alharbey, Asmaa Mahdi Munshi, Mayda Abdullateef Alrige, Chi Ho Yeung, "Modeling User Rating Preference Behavior To Improve The Performance Of The Collaborative Filtering Based Recommender Systems", Plos One, vol: 14, pp. e0220129, 2019.

    DOI: 10.1371/journal.pone.0220129

15. Kanwal Yousaf, Zahid Mehmood, Israr Ahmad Awan, Tanzila Saba, Riad Alharbey, Talal Qadah, Mayda Abdullateef Alrige, "A Comprehensive Study Of Mobile-Health Based Assistive Technology For The Healthcare Of Dementia And Alzheimer???S Disease (Ad)", Health Care Management Science, 2019.

    DOI: 10.1007/s10729-019-09486-0

16. Mayda Alrige, Samir Chatterjee, "Easy Nutrition: A Customized Dietary App To Highlight The Food Nutritional Value", vol: 10844, pp. 132-145, 2018.

    DOI: 10.1007/978-3-319-91800-6_9

17. Mayda A. Alrige, Samir Chatterjee, Ernie Medina, Jeje Nuval, "Applying The Concept Of Nutrient-Profiling To Promote Healthy Eating And Raise Individuals&Rsquo; Awareness Of The Nutritional Quality Of Their Food", American Medical Informatics Association, 2017.

18. Mayda Alrige, Samir Chatterjee, "Toward A Taxonomy Of Wearable Technologies In Healthcare", vol: 9073, pp. 496-504, 2015.

    DOI: 10.1007/978-3-319-18714-3_43

19. Mayda Alrige, Abdulkareem Alsudais, Miloslava Plachkinova, Samir Chatterjee, "Ehr Implementations In Healthcare Practices: Lessons From Two Case Studies .", Amcis, 2014.