

Academic Resume



Hajar Alharbi

Assistant Professor, Computer Science Department

I'm an Assistant Professor in the CS department specializing in image processing and pattern recognition. My research interests include artificial intelligence-related topics, computer vision, medical image processing, speech recognition, machine learning, deep learning, and health informatics.

Contact Information.

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Highest Degree.

2017, PhD, Image Processing and Pattern Recognition, University of New England, Australia.

Academic and Professional Experiences.

1. **2018 - 2022**
Supervisor of Computer Science Department, Faculty of Computing and Information Technology, King Abdulaziz University.
2. **2017 - Present**
Assistant professor, Faculty of Computing and Information Technology, King Abdulaziz University.
3. **2017 - 2018**
Head of Academic Affairs, Faculty of Computing and Information Technology, King Abdulaziz University.
4. **2007 - 2017**
Teaching assistant, Faculty of Computing and Information Technology, King Abdulaziz University.

Research Interests.

Image Processing and Pattern Recognition, Machine Learning and Deep Learning, Speech Recognition, Health Informatics.

Teaching Interests.

Artificial Intelligent, Analysis and Design of Algorithms, Machine Learning and Deep Learning, Discrete Structures, Image Processing, Pattern Recognition, Programming, Internet Technology.

Certifications and Trainings.

1. The Three Minute Thesis Competition, University of New England.
2. Job Descriptions, King Abdulaziz University.
3. Online Assessment Tools (E-exams) and Learning Analytics, King Abdulaziz University.
4. ISO 9001: 2015 Organizational Structure, King Abdulaziz University.
5. The Essential Academic Leadership, Academic Leadership Centre, Ministry of Education.
6. Excellence in Academic Advising, King Abdulaziz University.
7. Enhancing Quality of Scientific Research in Academic Department, King Abdulaziz University.
8. Deanship of Scientific Research Programs to Support of Researchers in Academic Departments, King Abdulaziz University.
9. Strategic Planning in Academic Department, King Abdulaziz University.
10. Preparing The 4th KAU Strategic Plan: 5th Workshop, King Abdulaziz University.
11. Strategic Directions of the University Vice-presidencies and a Discussion on the New Universities Law, King Abdulaziz University.
12. Training course for CPR and the use of the electric stun device, King Abdulaziz University.
13. Designing Effective Assessment, King Abdulaziz University.
14. No Dull Moment in The Classroom - Interactive Tools, King Abdulaziz University.
15. The Use of E-exam System, King Abdulaziz University.

Social, Scientific and Professional Affiliation.

1. 2008-Present, Member, IEEE.

Funded Projects.

1. 2019, Web-Based Expert System with Quick Response Code for Beta-Thalassemia Management, King Abdulaziz University, A project funded by Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, Saudi Arabia under grant No. (DF-388-165-1441).
2. 2019, Text-Rating Reviews Discrepancy (TRRD): A Critical Review and Implications for Research, King Abdulaziz University, A project funded by Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, Saudi Arabia under grant No. (DF-110-165-1441).

Publications.

1. Rsha Mirza, Miltiadis D. Lytras, Ohoud Alzamzami, Lama Al Khuzayem, Hajar Alharbi, Sultanah Alshammari, Alaa Bafail, Arwa Basbrain, Eaman Alharbi, Nada Bajnaid, Nadia Yusuf, Wadee AlHalabi, "Clustering Potential Metaverse Users With The Use Of A Value-Based Framework: Exploiting Perceptions And Attitudes On The Use And Adoption Of Metaverse For Bold Propositions", *Telematics And Informatics*, vol: 87, pp. 102074, 2024.
DOI: [10.1016/j.tele.2023.102074](https://doi.org/10.1016/j.tele.2023.102074)
2. Sumayya Al-Fadhli, Hajar Al-Harbi, Asma Cherif, "Speech Recognition Models For Holy Quran Recitation Based On Modern Approaches And Tajweed Rules: A Comprehensive Overview", *International Journal Of Advanced Computer Science And Applications*, vol: 14, 2023.
DOI: [10.14569/IJACSA.2023.0141297](https://doi.org/10.14569/IJACSA.2023.0141297)
3. Amani S. Althiban, Hajar M. Alharbi, Lama A. Al Khuzayem, Fathy Elbouraey Eassa, "Predicting Software Defects In Hybrid Mpi And Openmp Parallel Programs Using Machine Learning", *Electronics*, vol: 13, pp. 182, 2023.
DOI: [10.3390/electronics13010182](https://doi.org/10.3390/electronics13010182)
4. Ghalia A. Alshehri, Hajar M. Alharbi, "Prediction Of Heart Disease Using An Ensemble Learning Approach", *International Journal Of Advanced Computer Science And Applications*, vol: 14, 2023.
DOI: [10.14569/IJACSA.2023.01408118](https://doi.org/10.14569/IJACSA.2023.01408118)
5. Amal Almansour, Reem Alotaibi, Hajar Alharbi, "Text-Rating Review Discrepancy (Trrd): An Integrative Review And Implications For Research", *Future Business Journal*, vol: 8, 2022.
DOI: [10.1186/s43093-022-00114-y](https://doi.org/10.1186/s43093-022-00114-y)
6. Haneen R. Banjar, Galila F. Zaher, Hanadi S. Almutiry, Asma S. A Alshamarni, Ghaidaa I. Almouhana, Hatem M. Alahwal, Salem Bahashwan, Ahmed S. Barefah, Salwa A. Alnajjar, Hajar M. Alharbi, "Web-Based Expert System With Quick Response Code For Beta-Thalassemia Management", *Health Informatics Journal*, vol: 27, pp. 146045822198939, 2021.
DOI: [10.1177/1460458221989397](https://doi.org/10.1177/1460458221989397)
7. Noorh H. Alharbi, Rana O. Bameer, Shahad S. Geddan, , Hajar M. Alharbi, "Recent Advances And Machine Learning Techniques On Sickel Cell Disease", *Future Computing And Informatics Journal*, vol: 5, pp. 46-59, 2020.
DOI: [10.54623/fue.fcij.5.1.4](https://doi.org/10.54623/fue.fcij.5.1.4)
8. Nourah Alharbi, Rana Omar, Shahad Geddan, and Hajar Alharbi, "Sickle Cell Anemia: Estimation Of Treatment", *The 12th Annual Undergraduate Research Conference On Applied Computing*, 2020.
9. Hanadi S. Almutiry, Asma S. A Alshamarni, Ghaidaa I. Almouhana, Haneen R. Banjar, Hajar M. Alharbi, Hatem M. Alahwal, Salem Bahashwan, Ahmed S. Barefah, Salwa A. Alnajjar, and Galila F. Zaher, "Lifetime Healthcare Support In Beta Thalassemia Using Expert System With Qr Code", *The 12th Annual Undergraduate Research Conference On Applied Computing*, 2020.
10. Bashayer Alsubhi, Sara Alsalem, Hajar Alharbi, "Final Lab Exam Scheduling System", *The 10th Annual Undergraduate Research Conference On Applied Computing*, 2018.
11. Hajar Alharbi, Gregory Falzon, Paul Kwan, "A Novel Feature Reduction Framework For Digital Mammogram Image Classification", *2015 3rd Iapr Asian Conference On Pattern Recognition (Acpr)*, pp. 221-225, 2015.
DOI: [10.1109/ACPR.2015.7486498](https://doi.org/10.1109/ACPR.2015.7486498)
12. Hajar Mohammedsaleh H. Alharbi, Paul Kwan, Ashoka Jayawardena, A. S. M. Sajeev, "Fuzzy Image Segmentation For Mass Detection In Digital Mammography", pp. 769-792, 2013.
DOI: [10.4018/978-1-4666-3994-2.ch040](https://doi.org/10.4018/978-1-4666-3994-2.ch040)
13. Hajar Mohammedsaleh H. Alharbi, Paul Kwan, Ashoka Jayawardena, A. S. M. Sajeev, "Fuzzy Image Segmentation For Mass Detection In Digital Mammography", pp. 378-402, 2012.
DOI: [10.4018/978-1-4666-1830-5.ch021](https://doi.org/10.4018/978-1-4666-1830-5.ch021)

Publications.

14. Hajar Alharbi, Paul Kwan, A. S. M. Sajeev, "A Comparative Study Of Fuzzy Thresholding Techniques For Mass Detection In Digital Mammography", Proceedings Of The 27th Conference On Image And Vision Computing New Zealand, pp. 330-334, 2012.
DOI: [10.1145/2425836.2425901](https://doi.org/10.1145/2425836.2425901)