

## Academic Resume



### Areej Alhothali

#### Associate Professor, Computer Science Department

I'm an associate professor at the department of computer science, faculty of computer science, and information technology at King Abdulaziz University, Jeddah, Saudi Arabia. My research interests include artificial intelligence, machine learning, natural language processing, computer vision, affective computing, and sentiment analysis.

#### Contact Information.

Building 61, Room 116, Add. King Abdulaziz University, faculty of computing and Information Technology,  
aalhothali@kau.edu.sa.

#### Highest Degree.

2017, PhD, Computer science, Artificial Intelligence, University of Waterloo, Canada.

#### Academic and Professional Experiences.

1. **2022 - Present**  
CS PhD Program Coordinator, Faculty of Computing and Information Technology, King Abdulaziz University.
2. **2022 - Present**  
Associate professor, Faculty of Computing and Information Technology, King Abdulaziz University.
3. **2022 - Present**  
Head of the Observatory Unit for Research Activities, King Abdulaziz University, Jeddah.
4. **2020 - 2022**  
KAU Winter Enrichment Program Committee Member, King Abdulaziz University, Jeddah.
5. **2020 - 2022**  
Head of Alumni Unit, Faculty of Computing and Information Technology, King Abdulaziz University.
6. **2020 - 2022**  
Artificial Intelligence Curriculum Development Committee Member, Faculty of Computing and Information Technology, King Abdulaziz University.
7. **2017 - 2022**  
Assistant Professor, Faculty of Computing and Information Technology, King Abdulaziz University.
8. **2011 - 2017**  
Teaching Assistance, Waterloo, Ontario, Canada, University Of Waterloo.
9. **2005 - 2008**  
Instructional Designer, Deanship of Distance Learning, King Abdul Aziz University.
10. **2003 - 2005**  
Asp.net Web Developer, The General Administration of Education, Jeddah.

## Research Interests.

Natural Language Processing, Artificial Intelligence, Machine Learning, Sentiment Analysis, Affective Computing, Computer Vision.

## Teaching Interests.

Advance topics in Artificial Intelligence, Pattern Recognition, Natural Language Processing, Machine Learning, Deep Learning.

## Certifications and Trainings.

1. Fundamental of University Teaching, University Of Waterloo, Waterloo, Ontario, Canada.
2. IBM Business Intelligence Analyst Mastery.
3. Huawei HCIA AI.
4. Huawei HCIA-Storage.

## Social, Scientific and Professional Affiliation.

## Excellence Awards and Patents.

1. 2021, International, Third place in Dell 2021 Envision the Future Competition (Arabic Grammar Correction ), DELL.
2. 2020, International, Third place in Warsaw Virtual International invention in Poland (cell phone detection), Warsaw Virtual International invention.

## Publications.

1. Asma Abdulsalam, Areej Alhothali, Saleh Al-Ghamdi, "Detecting Suicidality In Arabic Tweets Using Machine Learning And Deep Learning Techniques", Arabian Journal For Science And Engineering, 2024.  
DOI: [10.1007/s13369-024-08767-3](https://doi.org/10.1007/s13369-024-08767-3)
2. Fatemah O Kamel, Rania Magadmi, Sulafah Qutub, Maha Badawi, Mazen Badawi, Tariq A Madani, Areej Alhothali, Ehab A Abozinadah, Duaa M Bakhshwin, Maha H Jamal, Abdulhadi S Burzangi, Mohammed Bazuhair, Hussamaldin Alqutub, Abdulaziz Alqutub, Sameera M Felemban, Fatin Al-Sayes, Soheir Adam, "Machine Learning-Based Prediction Of Covid-19 Prognosis Using Clinical And Hematologic Data", Cureus, 2023.  
DOI: [10.7759/cureus.50212](https://doi.org/10.7759/cureus.50212)
3. Sarah Alsubhi, Areej Alhothali, Amal Almansor, "Arabig5: The Big Five Personality Traits Prediction Using Machine Learning Algorithm On Saudi Arabic Tweets", Ieee Access, pp. 1-1, 2023.  
DOI: [10.1109/ACCESS.2023.3297981](https://doi.org/10.1109/ACCESS.2023.3297981)
4. Tarik Alafif, Anas Hadi, Manal Allahyani, Bander Alzahrani, Areej Alhothali, Reem Alotaibi, Ahmed Barnawi, "Hybrid Classifiers For Spatio-Temporal Abnormal Behavior Detection, Tracking, And Recognition In Massive Hajj Crowds", Electronics, vol: 12, pp. 1165, 2023.  
DOI: [10.3390/electronics12051165](https://doi.org/10.3390/electronics12051165)
5. Hind Saleh, Areej Alhothali, Kawthar Moria, "Detection Of Hate Speech Using Bert And Hate Speech Word Embedding With Deep Model", Applied Artificial Intelligence, vol: 37, 2023.  
DOI: [10.1080/08839514.2023.2166719](https://doi.org/10.1080/08839514.2023.2166719)
6. Reem Alharthi, Areej Alhothali, Bander Alzahrani, Sahar Aldhaheeri, "Massive Crowd Abnormal Behaviors Recognition Using C3d", 2023 Ieee International Conference On Consumer Electronics (Icce), pp. 01-06, 2023.  
DOI: [10.1109/ICCE56470.2023.10043437](https://doi.org/10.1109/ICCE56470.2023.10043437)
7. Rasha M. Albalawi, Amani T. Jamal, Alaa O. Khadidos, Areej M. Alhothali, "Multimodal Arabic Rumors Detection", Ieee Access, vol: 11, pp. 9716-9730, 2023.  
DOI: [10.1109/ACCESS.2023.3240373](https://doi.org/10.1109/ACCESS.2023.3240373)
8. Sara A. Alameen, Areej M. Alhothali, "A Lightweight Driver Drowsiness Detection System Using 3dcnn With Lstm", Computer Systems Science And Engineering, vol: 44, pp. 895-912, 2023.  
DOI: [10.32604/csse.2023.024643](https://doi.org/10.32604/csse.2023.024643)
9. Naelah O. Bahurmuz, Ghada A. Amoudi, Fatimah A. Baothman, Amani T. Jamal, Hanan S. Alghamdi, Areej M. Alhothali, "Arabic Rumor Detection Using Contextual Deep Bidirectional Language Modeling", Ieee Access, pp. 1-1, 2022.  
DOI: [10.1109/ACCESS.2022.3217522](https://doi.org/10.1109/ACCESS.2022.3217522)
10. Amal Balabid, Areej Altaban, Maram Albsisi, Areej Alhothali, "Cell Phone Usage Detection In Roadway Images: From Plate Recognition To Violation Classification", Neural Computing And Applications, 2022.  
DOI: [10.1007/s00521-022-07943-6](https://doi.org/10.1007/s00521-022-07943-6)
11. Areej Alhothali, Amal Balabid, Reem Alharthi, Bander Alzahrani, Reem Alotaibi, Ahmed Barnawi, "Anomalous Event Detection And Localization In Dense Crowd Scenes", Multimedia Tools And Applications, 2022.  
DOI: [10.1007/s11042-022-13967-w](https://doi.org/10.1007/s11042-022-13967-w)
12. Sahar Aldhaheeri, Reem Alotaibi, Bandar Alzahrani, Anas Hadi, Arif Mahmood, Areej Alhothali, Ahmed Barnawi, "Macc Net: Multi-Task Attention Crowd Counting Network", Applied Intelligence, 2022.  
DOI: [10.1007/s10489-022-03954-x](https://doi.org/10.1007/s10489-022-03954-x)

## Publications.

13. Kawthar Mostafa Moria, Hifsa Khurshid, Muhammad Raza Ul Mustafa, Areej Alhothali, Omaimah Omar Bamasag, "Application Of The Response Surface Methodology (Rsm) In The Optimization Of Acenaphthene (Acn) Removal From Wastewater By Activated Carbon", *Sustainability*, vol: 14, pp. 8581, 2022.  
DOI: [10.3390/su14148581](https://doi.org/10.3390/su14148581)
14. Areej Alhothali, Budoor Alwated, Kamil Faisal, Sultanah Alshammari, Reem Alotaibi, Nusaybah Alghanmi, Omaimah Bamasag, Manal Bin Yamin, "Location-Allocation Model To Improve The Distribution Of Covid-19 Vaccine Centers In Jeddah City, Saudi Arabia", *International Journal Of Environmental Research And Public Health*, vol: 19, pp. 8755, 2022.  
DOI: [10.3390/ijerph19148755](https://doi.org/10.3390/ijerph19148755)
15. Salha Alyami, Areej Alhothali, Amani Jamal, "Systematic Literature Review Of Arabic Aspect-Based Sentiment Analysis", *Journal Of King Saud University - Computer And Information Sciences*, 2022.  
DOI: [10.1016/j.jksuci.2022.07.001](https://doi.org/10.1016/j.jksuci.2022.07.001)
16. Ghada Amoudi, Rasha Albalawi, Fatimah Baothman, Amani Jamal, Hanan Alghamdi, Areej Alhothali, "Arabic Rumor Detection: A Comparative Study", *Alexandria Engineering Journal*, vol: 61, pp. 12511-12523, 2022.  
DOI: [10.1016/j.aej.2022.05.029](https://doi.org/10.1016/j.aej.2022.05.029)
17. Areej Alhothali, Maram Albsisi, Hussein Assalahi, Tahani Aldosemani, "Predicting Student Outcomes In Online Courses Using Machine Learning Techniques: A Review", *Sustainability*, vol: 14, pp. 6199, 2022.  
DOI: [10.3390/su14106199](https://doi.org/10.3390/su14106199)
18. Abeer Mohammed Alshehri, Reem Meteab Alotaibi, Bandar Ahmed Alzahrani, Areej Matoog Alhothali, Ahmed Hasan Alhindi, Manal Nawar Allahyani, "Accurate Crowd Counting Using Merged Datasets", *Icmlt 2022: 2022 7th International Conference On Machine Learning Technologies*, pp. 131-135, 2022.  
DOI: [10.1145/3529399.3529421](https://doi.org/10.1145/3529399.3529421)
19. Eman Justaniah, Ghadah Aldabbagh, Areej Alhothali, Nesreen Abourobkha, "Classifying Breast Density From Mammogram With Pretrained Cnns And Weighted Average Ensembles", *Applied Sciences*, vol: 12, pp. 5599, 2022.  
DOI: [10.3390/app12115599](https://doi.org/10.3390/app12115599)
20. Areej Alhothali, Hifsa Khurshid, Muhammad Raza Ul Mustafa, Kawthar Mostafa Moria, Umer Rashid, Omaimah Omar Bamasag, George Kyzas, "Evaluation Of Contemporary Computational Techniques To Optimize Adsorption Process For Simultaneous Removal Of Cod And Toc In Wastewater", *Adsorption Science & Technology*, vol: 2022, pp. 1-16, 2022.  
DOI: [10.1155/2022/7874826](https://doi.org/10.1155/2022/7874826)
21. Kholoud Alsubhi, Amani Jamal, Areej Alhothali, "Deep Learning-Based Approach For Arabic Open Domain Question Answering", *Peerj Computer Science*, vol: 8, pp. e952, 2022.  
DOI: [10.7717/peerj-cs.952](https://doi.org/10.7717/peerj-cs.952)
22. Zhibin Li, Shuai Li, Omaimah Omar Bamasag, Areej Alhothali, Xin Luo, "Diversified Regularization Enhanced Training For Effective Manipulator Calibration", *Ieee Transactions On Neural Networks And Learning Systems*, pp. 1-13, 2022.  
DOI: [10.1109/TNNLS.2022.3153039](https://doi.org/10.1109/TNNLS.2022.3153039)
23. Kamil Faisal, Sultanah Alshammari, Reem Alotaibi, Areej Alhothali, Omaimah Bamasag, Nusaybah Alghanmi, Manal Bin Yamin, "Spatial Analysis Of Covid-19 Vaccine Centers Distribution: A Case Study Of The City Of Jeddah, Saudi Arabia", *International Journal Of Environmental Research And Public Health*, vol: 19, pp. 3526, 2022.  
DOI: [10.3390/ijerph19063526](https://doi.org/10.3390/ijerph19063526)



## **Publications.**

37. Areej Alhothali, Jesse Hoey, "Good News Or Bad News: Using Affect Control Theory To Analyze Readers Reaction Towards News Articles", Conference Of The North American Chapter Of The Association For Computational Linguistics - Human Language Technologies (Naacl Hlt), Denver, Co, 2015.
38. Jesse Hoey, Tobias Schroeder, Areej Alhothali, "Bayesian Affect Control Theory", Affective Computing And Intelligent Interaction (Aci), 2013.
39. Areej Alhothali, Jesse Hoey, "Keystrokes-Based Affect Recognition Using Hierarchical Svm", Symposium On Advanced Intelligent Systems (Sais), 2012.