Academic Resume

Amani Jamal

Associate Professor, Computer Science Department

Amani Tariq Jamal is an Associate Professor in the Computer Science Department and the Supervisor of Computer Science Department at Faculty of Computing and Information Technology, King Abdulaziz University. She received her Ph.D. in the field of CS and AI at
Concordia University, Canada. She served in several administrative positions and committees.
She has published many research
papers in the field of Computer Vision and Natural Language Processing.

Contact Information.

Building 61, Room S-109, Ext. 80030, Add. Department of Computer Science, Faculty of Computing and Information Technology, King Abdulaziz University, atjamal@kau.edu.sa.

Highest Degree.

2015, Doctor of Philosophy (PhD), AI, Concordia University, Canada.

Academic and Professional Experiences.

1. **2022 - Present**
   Member, CS Accreditation steering Committee, Faculty of Computing and Information Technology, King Abdulaziz University.
2. **2022 - Present**
   Supervisor, Computer Science Department¡ Faculty of Computing and Information Technology, King Abdulaziz University.
3. **2022 - Present**
   Member, FCIT Executive Programs Committee¡ Faculty of Computing and Information Technology, King Abdulaziz University.
4. **2022 - Present**
   Consultant, Education and Training Evaluation Commission, Ministry of Education.
5. **2022 - 2023**
   Member, FCIT Journal Marketing Committee¡ Faculty of Computing and Information Technology, King Abdulaziz University.
6. **2021 - 2023**
   Head of Strategic Planning Unit, Faculty of Computing and Information Technology, King Abdulaziz University.
7. **2021 - 2023**
   Head, Labour Market Course Committee, Faculty of Computing and Information Technology, King Abdulaziz University.
8. **2021 - 2022**
   Member, Language Localization (National Transformation) for organizational bylaw Committee, Ministry

Academic and Professional Experiences.

of Education.

9. **2020 - 2022**
Head, Hand-made Center, Deanship of Student Affairs, King Abdulaziz University.
10. **2020 - 2021**
Member, the Supervision and Follow-up Committee for the Implementation of the Programs and Projects of the University Vice Presidency for Business and Knowledge Innovation, King Abdulaziz University.
11. **2020 - 2021**
Member, Standardized tests guidelines to place students in majors Committee, Ministry of Education.
12. **2019 - Present**
Co-founder, Saudi Artificial Intelligent Association, Ministry of Human Resources and Social Development.
13. **2019 - Present**
Member, Director Board of Saudi Artificial Intelligent Association, Ministry of Human Resources and Social Development.
14. **2019 - 2020**
Head, Development and Quality Unit at Faculty of Computing and Information Technology, King Abdulaziz University.
15. **2019 - 2020**
Member, Technical Committee of The First Scientific Conference of the Heads and Supervisors of the Academic Departments, King Abdulaziz University.
16. **2019 - 2019**
Supervisor, Committee of Procedural Manual for Heads and supervisors of scientific departments, King Abdulaziz University.
17. **2018 - Present**
Member, Scientific Committee of the Forum of Heads and Supervisors of the Academic Departments, King Abdulaziz University.
18. **2018 - 2019**
Co-founder, House of Expertise for Smart Applications, King Abdulaziz University.
19. **2018 - 2019**
Department Supervisor, Information Systems and Technology College of Computer Science and Engineering, University of Jeddah.
20. **2018 - 2019**
Consultant, Strategic Plan, Faculty of Computing and Information Technology, King Abdulaziz University.
21. **2018 - 2019**
Assistant Professor, Computer Science and Artificial Intelligent Department, College of Computer Science and Engineering, University of Jeddah.
22. **2018 - 2019**
Member, Scientific Committee for Designing Software Engineering Bachelor program, College of Computer Science and Engineering, University of Jeddah.
23. **2017 - 2018**
Supervisor, RedHat Academy partnership , Faculty of Computing and Information Technology, King Abdulaziz University.
24. **2016 - 2018**
Department Supervisor, Information Technology Department, Faculty of Computing and Information Technology, King Abdulaziz University.
25. **2016 - 2018**
Member, in Scientific Research Committee in IT Department, Faculty of Computing and Information Technology, King Abdulaziz University.

Last Profile Update: April   20, 2024

Research Interests.

Computer Vision, Natural Language Processing, Arabic and Historical Documents Analysis.

Teaching Interests.

Artificial Intelligence, Database, Programming.

Certifications and Trainings.

1. Graduate Seminar on University Teaching.
2. Program for Leadership and University Success.
3. Academic Leadership Development.
4. Effective personal Productivity.
5. Document Image Processing.
6. Management Fundamentals.
7. Modern teaching and learning strategies.
8. Women Leadership Forum in Higher Education.
9. Data Science Foundation.
10. Triz Creative Thinking.
11. Effective Motivational Leadership.
12. Effective Strategic Leadership.
13. Certified advisor of strategic planning.
14. Project Management Professional (PMP) Training.
15. Diploma of Heads and Supervisors of Scientific Departments.
16. ToT The Training of Trainers.
17. Data Science and Machine Learning: Making Data-driven Decisions MIT IDSS.

Social, Scientific and Professional Affiliation.

1. 2021-Present, Associate Professor, Department of Computer Science, Faculty of Computing and Information Technology, KAU.
2. 2017-2021, Assistant Professor, Department of Computer Science, Faculty of Computing and Information Technology, KAU.

Funded Projects.

1. 2020, Institutional Funding Program for Research and Development- Research Program Path (High Impact Publications), Deanship of Scientific Research at King Abdulaziz University, IFPHI-047-611-2020., KAU
2. 2020, Institutional Funding Program for Research and Development- Research Program Path (High Impact Publications), Deanship of Scientific Research at King Abdulaziz University, IFPHI-050-611-2020., KAU

Last Profile Update: April   20, 2024

Publications.

1. Aisha Hakami, Sara Alminhali, Amani Jamal, "Personality Identification Based On Handwritten Signature", 2024 Second International Conference On Emerging Trends In Information Technology And Engineering (Icetite), pp. 1-6, 2024.
   DOI: 10.1109/ic-ETITE58242.2024.10493494

2. Hanan A. Batarfi, Olaa A. Alsaedi, Arwa M. Wali & Amani T. Jamal, "Impact Of Data Augmentation On Hate Speech Detection", International Conference On Innovations For Community Services, 2023.

3. Bedour Alrashidi, Amani Jamal, Ali Alkhathlan, "Abusive Content Detection In Arabic Tweets Using Multi-Task Learning And Transformer-Based Models", Applied Sciences, vol: 13, pp. 5825, 2023.
   DOI: 10.3390/app13105825

4. 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

5. Souad Kamel, Amani Jamal, Kaouther Omri, Mashael Khayyat, "An Iot-Based Fire Safety Management System For Educational Buildings: A Case Study", International Journal Of Advanced Computer Science And Applications, vol: 13, 2022.
   DOI: 10.14569/IJACSA.2022.0130789

6. Latifa Aljiffry, Hassanin Al-Barhamtoshy, Amani Jamal, Felwa Abukhodair, "Arabic Documents Layout Analysis (Adla) Using Fine-Tuned Faster Rcn", 2022 20th International Conference On Language Engineering (Esolec), pp. 66-71, 2022.
   DOI: 10.1109/ESOLEC54569.2022.10009375

7. Yasmin Einieh, Amal Almansour, Amani Jamal, "Fine Tuning An Arat5 Transformer For Arabic Abstractive Summarization", 2022 14th International Conference On Computational Intelligence And Communication Networks (Cicn), pp. 194-198, 2022.
   DOI: 10.1109/CICN56167.2022.10008272

8. Bedour Alrashidi, Amani Jamal, Imtiaz Khan, Ali Alkhathlan, "A Review On Abusive Content Automatic Detection: Approaches, Challenges And Opportunities", Peerj Computer Science, vol: 8, pp. e1142, 2022.
   DOI: 10.7717/peerj-cs.1142

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

10. Hanan Hassan Al Mutawa, Hanan Elazhary, Amani Tariq Jamal and Nada Bajnaid, "Cal2owl: Direct Translation From Cal To Owl For Ontology Authoring", Journal Of King Abdulaziz University Computing And Information Technology Sciences, 2022.

11. Wafaa Alsaggaf, Felwa Abukhodair, Amani Tariq Jamal, Sayed Abdel-Khalek, Romany F. Mansour, "Intelligent Disease Diagnosis Model For Energy Aware Cluster Based Iot Healthcare Systems", Computers, Materials &Amp; Continua, 2022.

12. 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

13. 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

Publications.

14. 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

15. Abrar Alotaibi, Mai Fadel, Amani Jamal, Ghadah Aldabbagh, "Combining Multiple Seismic Attributes Using Convolutional Neural Networks", International Journal Of Advanced Computer Science And Applications, vol: 13, 2022.

    DOI: 10.14569/IJACSA.2022.0130207

16. Nouf Rahimi, Fathy Eassa, Lamiaa Alrefaei, Amani Jamal, and Azida Zainol, "Functional Requirement (Fr) Classification Using Convolutional Neural Network (Cnn)", Indian Journal Of Natural Sciences, 2021.

17. Nadia H. Alsulami1, Amani T. Jamal, Lamiaa A. Elrefaei, "Deep Learning-Based Approach For Arabic Visual Speech Recognition", Computers, Materials &Amp;Amp; Continua, 2021.

18. Noura Al-Maliki, Hisham Bardisi, Mayada Almasri, Mohammed Beshiri, Wafaa Al-Saggaf, Amani Jamal, Ala Al-Marzouki, Walaa Al-Habashi, "Adopting E-Learning In The It Program At King Abdulaziz University: Practices And Results", First Conference Of Heads And Supervisors Of Scientific Departments, 2021.

19. Felwa Abukhodair, Wafaa Alsaggaf, Amani Tariq Jamal, Sayed Abdel-Khalek, Romany F. Mansour, "An Intelligent Metaheuristic Binary Pigeon Optimization-Based Feature Selection And Big Data Classification In A Mapreduce Environment", Mathematics, vol: 9, pp. 2627, 2021.

    DOI: 10.3390/math9202627

20. Asmaa Alahmari, Amani Jamal, Hanan Elazhary, "Comparative Study Of Common Density-Based Clustering Algorithms", 2021 National Computing Colleges Conference (Nccc), pp. 1-6, 2021.

    DOI: 10.1109/NCCC49330.2021.9428832

21. Amani Tariq Jamal, Anis Ben Ishak, Sayed Abdel-Khalek, "Tumor Edge Detection In Mammography Images Using Quantum And Machine Learning Approaches", Neural Computing And Applications, vol: 33, pp. 7773-7784, 2021.

    DOI: 10.1007/s00521-020-05518-x

22. Amani Tariq Jamal, Sayed Abdel-Khalek, Anis Ben Ishak, "Multilevel Segmentation Of Medical Images In The Framework Of Quantum And Classical Techniques", Multimedia Tools And Applications, 2021.

    DOI: 10.1007/s11042-020-10235-7

23. Nahla Aljojo, Ameen Banjar, Mashael Khayyat, Basma Alharbi, Areej Alshutayri, Amani Jamal, Azida Zainol, Dana Waggas, Ghydaa Saleh, Rahaf Alshehri, Shoroug Aljuaid, "Kids' Atlas Application To Learn About Geography And Maps", Adcaij: Advances In Distributed Computing And Artificial Intelligence Journal, vol: 9, pp. 33-48, 2020.

    DOI: 10.14201/ADCAIJ2020923348

24. Amani Jamal, Asmaa Munshi, Nahla Aljojo, Talal Qadah and Azida Zainol, "Digital Information Needs For Understanding Cell Divisions In The Human Body", Adcaij, 2020.

25. Reham Al-thakafi, Amani Jamal, Saadiah Yahya, "Analysis Of Iot Devices&Rsquo; Vulnerability Attack Using A Honeypot", Multi-Knowledge Electronic Comprehensive Journal For Education And Science Publications Mecsj, 2020.

26. Azida Zainol and Amani Tariq Jamal, "Case Study On Requirements Management Tool For Small And Medium Software Projects", 20, 2020.

27. Rasha Elnemr, Mohammed M. Nasef, Passant Elkafrawy, Mahmoud Rafea, Amani Tariq Jamal, "A Theoretical Approach For Correlating Proteins To Malignant Diseases", Frontiers In Molecular Biosciences, vol: 7, 2020.

    DOI: 10.3389/fmolb.2020.582593

Publications.

28. Ines Hilali-Jaghdam, Anis Ben Ishak, S. Abdel-Khalek, Amani Jamal, "Quantum And Classical Genetic Algorithms For Multilevel Segmentation Of Medical Images: A Comparative Study", Computer Communications, vol: 162, pp. 83-93, 2020.

   DOI: 10.1016/j.comcom.2020.08.010

29. Ahmed T. Sahlol, Mohamed Abd Elaziz, Amani Tariq Jamal, Robertas Dama??evi??ius, Osama Farouk Hassan, "A Novel Method For Detection Of Tuberculosis In Chest Radiographs Using Artificial Ecosystem-Based Optimisation Of Deep Neural Network Features", Symmetry, vol: 12, pp. 1146, 2020.

   DOI: 10.3390/sym12071146

30. Amani Tariq Jamal, Nahla Aljojo, Morooj Saleh Al-Ghamdi, Bashayer Abdulhakeem Hindi, Mashael Khaled Al-Ghanmi, Shaima Yassin Al-Jahdali, Baraa Mostafa Karam, Talah Fahad Abualnaja, "The Akeffa Tutor Application: A New Arabic Writing System", International Journal Of Interactive Mobile Technologies (Ijim), vol: 14, pp. 62, 2020.

   DOI: 10.3991/ijim.v14i02.11727

31. Osama Farouk Hassan, Amani Jamal, Sayed Abdel-Khalek, Ahmed Farouk, "Genetic Algorithm And Numerical Methods For Solving Linear And Nonlinear System Of Equations: A Comparative Study", Journal Of Intelligent & Fuzzy Systems, vol: 38, pp. 2867-2872, 2020.

   DOI: 10.3233/JIFS-179572

32. Nahla Aljojo, Reem Alotaibi, Basma Alharbi, Areej Alshutayri, Amani Tariq Jamal, Ameen Banjar, Mashael Khayyat, Azida Zainol, Abrar Al-Roqy, Rahaf Al-Magrabi, Taghreed Khalawi, Sarah Al-Harthi, "Alzheimer Assistant: A Mobile Application Using Machine Learning", Romanian Journal Of Information Technology And Automatic Control, vol: 30, pp. 7-26, 2020.

   DOI: 10.33436/v30i4y202001

33. Mahmoud Rafea1, Passant Elkafrawy, Mohammed M. Nasef, Rasha Elnemr1, Amani Tariq Jamal, "A Survey Of Machine Learning Algorithms For Efficient Biomarkers Identification", 62nd Isi World Statistics Congress 2019 (Isi Wsc 2019), 2019.

34. Samia Snoussi Maddouri, Bushra Al-Anesi, Zainah Bokhari, Roaa Alqurashi, Amani T. Jamal, "A Smart Arabic Signboard Image Reader For Mobile Devices", 2019 International Conference On Document Analysis And Recognition Workshops (Icdarw), pp. 7-12, 2019.

   DOI: 10.1109/ICDARW.2019.50108

35. Amani Jamal, Latifa Aljiffry, Noora Alhindi, Raghdah Nahhas, Somayh Al-Amoudi, "Image Assistant Tools For Extracting, Detecting, Searching Images And Texts", 2019 2nd International Conference On Computer Applications & Information Security (Iccais), pp. 1-6, 2019.

   DOI: 10.1109/CAIS.2019.8769582

36. Mahmoud Rafea, Passant Elkafrawy, Mohammed M. Nasef, Rasha Elnemr, Amani Tariq Jamal, "Applying Machine Learning Of Erythrocytes Dynamic Antigens Store In Medicine", Frontiers In Molecular Biosciences, vol: 6, 2019.

   DOI: 10.3389/fmolb.2019.00019

37. Amani T. Jamal, Nicola Nobile, Ching Y. Suen, "End-Shape Recognition For Arabic Handwritten Text Segmentation", The 6th Iapr Tc3 International Workshop On Artificial Neural Networks Annpr, 2014.

38. Amani T. Jamal, and Ching Y. Suen, "Removal Of Secondary Components Of Arabic Handwritten Words Using Morphological Reconstruction", The International Conference On Information Technology, 2014.

39. Amani T. Jamal, Nicola Nobile, and Ching Y. Suen, "Learning-Based Baseline Estimation", 11th International Conference On Pattern Recognition And Image Analysis: New Information Technologies, 2013.