

Academic Resume



Amal Babour

Associate Professor, Information Systems Department

Contact Information.

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Highest Degree.

2017, PhD, Computer Science Department, Kent State University, USA.

Academic and Professional Experiences.

1. **2023 - Present**
Associate Professor, Information Systems Department, College of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia., , .
2. **2018 - 2023**
Assistant Professor, Information Systems Department, College of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
3. **2016 - 2016**
Lab Instructor, Computer Science Department, Kent State University, Kent, OH, USA.
4. **2010 - 2018**
Lecturer, Information Systems Department, College of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
5. **2008 - 2010**
Teacher Assistant, Information Systems Department, College of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.
6. **2008 - 2008**
Lecturer, Information Systems and Computer Science Department, Effat University, Jeddah, Saudi Arabia.
7. **2005 - 2006**
Programmer, Wameed Company, Cairo, Egypt.

Research Interests.

Algorithms, Data Mining, Ontology, Text Mining, Information Retrieval, Sentiment Analysis, Big Data Analysis, Social network analysis, Scientometric analysis, Geographic Information System.

Teaching Interests.

Data Mining, Database, Algorithms, Programming, Information System, Graph Mining, Operating Systems.

Certifications and Trainings.

1. Bachelor degree from Computer Science, Faculty of Sciences, King Abdulaziz University.
2. Master degree from Information System, Faculty of Computers and Informations, Cairo University.
3. External Reviewer Training, Deanship of Quality and Academic Accreditation, King Abdulaziz University.
4. Analysis of LMS big data, Deanship of e-Learning and Distance Education, King Abdulaziz University.
5. Analysis of e-exam big data, Deanship of e-Learning and Distance Education, King Abdulaziz University.
6. Doctorate degree from Computer Science, College of Arts and Sciences, Kent State University.
7. Research Ethics, Research Development Office (RDO), Ministry of Education.
8. Applying quality standards in the design of electronic courses, Committee of e-Learning and Distance Education Deans in Saudi Universities, King Abdulaziz University.
9. CISCO Networking Academy (Get Connected), King Abdulaziz University.
10. training on (QuestionMark and Exit Exam), King Abdulaziz University.
11. Training on (Web of science), King Abdulaziz University.
12. Statistical Graphs design Using Google Data Studio, Deanship of Quality and Academic Accreditation, King Abdulaziz University..
13. IBM Artificial Intelligence Analyst Certificate..
14. Data Science and Machine Learning: Making Data-Driven Decisions, MIT Schwarzman College of Computing.
15. IBM Predictive Analytics Modeler Certificate.

Social, Scientific and Professional Affiliation.

Excellence Awards and Patents.

1. 2002, Interior, Second Honor degree in Bachelor of Science., King Abdul Aziz University.
2. 2017, International, Golden Key International Society, Golden Key International Society, Kent State University.
3. 2020, Interior, Getting the sixth place in the innovation track - the field of innovation and entrepreneurship - 11th scientific forum for a project titled (Intelligent gloves), (Project Supervisor), King Abdulaziz University.
4. 2016, International, GSS Domestic Travel Award, Kent State University.

Publications.

1. Ohoud ALZAMZAMI, Sumaiya ALI, Widad ALKIBSI, Ghaidaa KHAN, Amal BABOUR, Hind BITAR, "Smart Fitting: An Augmented Reality Mobile Application For Virtual Try-On", Revista Român? De Informatic? ?I Automatic?, vol: 33, pp. 103-118, 2023.
DOI: [10.33436/v33i2y202308](https://doi.org/10.33436/v33i2y202308)
2. Kawther Saeedi, Anna Visvizi, Dimah Alahmadi, Amal Babour, "Smart Cities And Households' Recyclable Waste Management: The Case Of Jeddah", Sustainability, vol: 15, pp. 6776, 2023.
DOI: [10.3390/su15086776](https://doi.org/10.3390/su15086776)
3. Amal Babour, Hind Bitar, Ohoud Alzamzami, Dimah Alahmadi, Amal Barsheed, Amal Alghamdi, Hanadi Almshjary, "Intelligent Gloves: An It Intervention For Deaf-Mute People", Journal Of Intelligent Systems, vol: 32, 2023.
DOI: [10.1515/jisys-2022-0076](https://doi.org/10.1515/jisys-2022-0076)
4. Atheer Alkhamash, Kawther Saeedi, Fatmah Baothman, Rania Anwar Aboalela, Amal Babour, "Efficient Decentralized Sharing Economy Model Based On Blockchain Technology: A Case Study Of Najm For Insurance Services Company", International Journal Of Advanced Computer Science And Applications, vol: 13, 2022.
DOI: [10.14569/IJACSA.2022.0130959](https://doi.org/10.14569/IJACSA.2022.0130959)
5. Hind Bitar, Amal Babour, Fatema Nafa, Ohoud Alzamzami, Sarah Alismail, "Increasing Women'S Knowledge About Hpv Using Bert Text Summarization: An Online Randomized Study", International Journal Of Environmental Research And Public Health, vol: 19, pp. 8100, 2022.
DOI: [10.3390/ijerph19138100](https://doi.org/10.3390/ijerph19138100)
6. Farman Ali, Harish Kumar, Shruti Patil, Ashfaq Ahmad, Amal Babour, Ali Daud, "Deep-Ghbp: Improving Prediction Of Growth Hormone-Binding Proteins Using Deep Learning Model", Biomedical Signal Processing And Control, vol: 78, pp. 103856, 2022.
DOI: [10.1016/j.bspc.2022.103856](https://doi.org/10.1016/j.bspc.2022.103856)
7. Amal Babour, Ohoud Alzamzami, "International Publication Trends And Collaboration Impact On The Scientific Research Of Saudi Arabia", Journal Of Scientometric Research, vol: 10, pp. 328-336, 2022.
DOI: [10.5530/jscires.10.3.49](https://doi.org/10.5530/jscires.10.3.49)
8. Fatema Nafa, Amal Babour, Austin Melton, "Prerequisite Relations Among Knowledge Units: A Case Study Of Computer Science Domain", Computer Modeling In Engineering & Sciences, vol: 0, pp. 1-14, 2022.
DOI: [10.32604/cmes.2022.020084](https://doi.org/10.32604/cmes.2022.020084)
9. Amal Babour, Javed I. Khan, "Automatic Generation Of A Metric Report: A Case Study Of Scientometric Analytics", Ieee Access, vol: 10, pp. 3923-3934, 2022.
DOI: [10.1109/ACCESS.2021.3127207](https://doi.org/10.1109/ACCESS.2021.3127207)
10. Amal Babour, Javed Khan, "Towards Man/Machine Co-Authoring Of Advanced Analytics Reports Around Big Data Repositories", vol: 13184, pp. 574-583, 2022.
DOI: [10.1007/978-3-030-98404-5_53](https://doi.org/10.1007/978-3-030-98404-5_53)
11. Afnan Muhammadsalh Alsukhayri, Muhammad Ahtisham Aslam, Imtiaz Hussain Khan, Rabeeh Ayaz Abbasi, Amal Babour, "Toward Building A Linked Open Data Cloud To Predict And Regulate Social Relations In The Saudi Society", Ieee Access, vol: 10, pp. 50548-50561, 2022.
DOI: [10.1109/ACCESS.2022.3174090](https://doi.org/10.1109/ACCESS.2022.3174090)
12. Amany K Alnahdi, Rania A Aboalela, Rasha K. Khazmari, Fatmah A Baothman, Amal J Babour, Huda A Al Taisan, "Arenalg: A Pedagogical Mobile Application For Algorithms Linguistics Based On A Semantic Bilingual Ontology", Journal Of Physics: Conference Series, vol: 2188, pp. 012010, 2022.
DOI: [10.1088/1742-6596/2188/1/012010](https://doi.org/10.1088/1742-6596/2188/1/012010)

Publications.

13. Reem Alshahrani, Amal Babour, "An Infodemiology And Infoveillance Study On Covid-19: Analysis Of Twitter And Google Trends", Sustainability, vol: 13, pp. 8528, 2021.
DOI: [10.3390/su13158528](https://doi.org/10.3390/su13158528)
14. Deema Alghamdi, Rahaf Al-Motery, Reem Almagbadi, Ohoud Alzamzami, Amal Babour, "Automatic Detection Of Cyberbullying And Threatening In Saudi Tweets Using Machine Learning", International Journal Of Advanced And Applied Sciences, vol: 8, pp. 17-25, 2021.
DOI: [10.21833/ijaas.2021.10.003](https://doi.org/10.21833/ijaas.2021.10.003)
15. Amal Babour, Javed I. Khan, Fatema Nafa, Kawther Saeedi, Dimah Alahmadi, "Discovery Engine For Finding Hidden Connections In Prose Comprehension From References", International Journal Of Advanced Computer Science And Applications, 2021.
16. Afnan Bayazed, Ola Torabah, Redha AlSulami, Dimah Alahmadi, Amal Babour, Kawther Saeedi, "Sdct: Multi-Dialects Corpus Classification For Saudi Tweets", International Journal Of Advanced Computer Science And Applications, 2020.
17. Elaaf Aljohani, Fatimah Alshahrani, Nuha Aldini, Raghad Al-harbi, Amal Babour, Sahar Badri, "A Review Of Children And Day-Care Centers Systems", International Journal Of Advanced Trends In Computer Science And Engineering, 2020.
18. Saud Assiri, Mansour Alyamani, Abdullah Mansour, Bahjat Fakieh, Sahar Badri, Amal Babour, "Current Shipment Tracking Technologies And Trends In Research", Icisdms 2020: 2020 The 4th International Conference On Information System And Data Mining, pp. 113-117, 2020.
DOI: [10.1145/3404663.3404683](https://doi.org/10.1145/3404663.3404683)
19. Dimah Alahmadi, Amal Babour, Kawther Saeedi, Anna Visvizi, "Ensuring Inclusion And Diversity In Research And Research Output: A Case For A Language-Sensitive Nlp Crowdsourcing Platform", Applied Sciences, vol: 10, pp. 6216, 2020.
DOI: [10.3390/app10186216](https://doi.org/10.3390/app10186216)
20. Kawther Saeedi, Arwa Wali, Dema Alahmadi, Amal Babour, Faten AlQahtani, Rawan AlQahtani, Raghad Khawaja, Zaina Rabah, "Building A Blockchain Application: A Show Case For Healthcare Providers And Insurance Companies", Proceedings Of The Future Technologies Conference (Ftc) 2019, Proceedings Of The Future Technologies Conference (Ftc) 2019, vol: 1069, pp. 785-801, 2019.
DOI: [10.1007/978-3-030-32520-6_57](https://doi.org/10.1007/978-3-030-32520-6_57)
21. Amany Alnahdi, Rania Aboalela, Amal Babour, "Building Bilingual Algorithm English-Arabic Ontology For Cognitive Applications", In Cognitive Computing (Iccc), 2017 Ieee International Conference On (Pp. 124-127). Ieee, 2017.
22. Fatema Nafa, Javed I. Khan, Salem Othman, Amal Babour, "Semantic Graph Transitivity For Discovering Bloom Taxonomic Relationships Between Knowledge Units In A Text", Intelli 2016, 2016.
23. Amal Babour, Javed I. Khan, Fatema Nafa, "Deepening Prose Comprehension By Incremental Knowledge Augmentation From References", Intelli 2016, 2016.
24. Fatema Nafa, Javed I. Khan, Salem Othman, Amal Babour, "Mining Cognitive Skills Levels Of Knowledge Units In Text Using Graph Triangularity Mining", 2016 Ieee/Wic/Acm International Conference On Web Intelligence Workshops (Wiw), pp. 1-4, 2016.
DOI: [10.1109/WIW.2016.013](https://doi.org/10.1109/WIW.2016.013)
25. Fatema Nafa, Javed I. Khan, Salem Othman, Amal Babour, "Discovering Bloom Taxonomic Relationships Between Knowledge Units Using Semantic Graph Triangularity Mining", 2016 International Conference On Cyber-Enabled Distributed Computing And Knowledge Discovery (Cyberc), pp. 224-233, 2016.
DOI: [10.1109/CyberC.2016.52](https://doi.org/10.1109/CyberC.2016.52)

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26. Amal Babour, Javed I. Khan, Fatema Nafa, "Deepening Prose Comprehension By Incremental Free Text Conceptual Graph Mining And Knowledge", 2016 International Conference On Cyber-Enabled Distributed Computing And Knowledge Discovery (Cyberc), pp. 208-215, 2016.
DOI: [10.1109/CyberC.2016.49](https://doi.org/10.1109/CyberC.2016.49)
27. Amal Babour, Fatema Nafa, Javed I. Khan, "Connecting The Dots In A Concept Space By Iterative Reading Of Freetext References With Wordnet", 2015 Ieee / Wic / Acm International Conference On Web Intelligence And Intelligent Agent Technology (Wi-Iat), pp. 441-444, 2015.
DOI: [10.1109/WI-IAT.2015.70](https://doi.org/10.1109/WI-IAT.2015.70)
28. Amal Babour, Fatema Nafa, Javed I. Khan, "An Iterative Method For Enhancing Text Comprehension By Automatic Reading Of References", Thinkmind (Tm) Digital Library, 2015.
29. Amal Babour, Javed I. Khan, "Tweet Sentiment Analytics With Context Sensitive Tone-Word Lexicon", Ieee/Wic/Acm International Joint Conferences On Web Intelligence (Wi) And Intelligent Agent Technologies (Iat), pp. 392-399, 2014.
DOI: [10.1109/WI-IAT.2014.61](https://doi.org/10.1109/WI-IAT.2014.61)