

## Academic Resume



### Felwa Abukhodair

**Assistant Professor, Information Technology Department**

#### Contact Information.

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#### Highest Degree.

2018, , Data Visualization and Visual Analytics, Simon Fraser University, Canada.

#### Academic and Professional Experiences.

1. **2021 - Present**  
Director of the Center of Excellence in Smart Environment Research, King Abdulaziz University, , .
2. **2019 - Present**  
Head of Technology and Educational Environment Unit, Faculty of Computing and Information Technology, King Abdulaziz University.
3. **2019 - Present**  
IEEE student branch councillor at the faculty of Computing and Information Technology (female section), Faculty of Computing and Information Technology, King Abdulaziz Univrsity.
4. **2019 - 2020**  
Program Director of the Executive Diploma in Cybersecurity - Faculty of Computing and Information Technology - Department of Information Technology -King Abdulaziz University, Faculty of Computing and Information technology, King Abdulaziz University.
5. **2018 - Present**  
Assistant Professor, Faculty of Computing and Information Technology - Department of Information technology, King Abdulaziz University.
6. **2018 - 2018**  
Member of the research review committee at the tenth scientific forum, faculty of Computing and Information Technology, King Abdulaziz University, , .
7. **2008 - 2018**  
Demonstrator, Faculty of Computing and Information Technology - Department of Information technology, King Abdulaziz University.

#### Research Interests.

Data Mining, Data Visualization, Machine Learning, Health Informatics, Visual Analytics, Database.

#### Teaching Interests.

Database, Machine Learning, health Informatics, Data Visualization, Visual Analytics, Human Computer Interaction - HCI, Data Mining.

## Certifications and Trainings.

1. Data Science Foundation Program - Clevered institute - Jeddah Saudi Arabia.
2. Visual Analytics - Vancouver Institute for Visual Analytics - Vancouver Canada.
3. Blackboard E-learning System Workshop - King Abdulaziz Univerity.
4. Visual Analytics in Healthcare Workshop in Conjunction with IEEE VisWeek2014, Paris France.
5. Picture Archiving and Communication System -PACS Fundamentals Workshop - Ministry of Health.
6. Research Co-investigator and Co-tutor for Mawhiba Senior Students - King Abdulaziz and his Companies Foundation for Giftedness and Creativity.
7. Visual Analytics in Healthcare Workshop in Conjunction with IEEE VisWeek 2012 - Seattle, USA.
8. Visual Analytics in Healthcare Workshop in Conjunction with IEEE VisWeek2019, Vancouver, Canada.
9. HCIA - Artificial Intelligence Course - ICT talent - Huwaei Academy.
10. How to Publish in High Impact Journals Workshop - King Abdulaziz Univerity.
11. Diploma of Professional Development for University Education - Center for teaching and Development - King Abdulaziz University.
12. Visual Analytics in Healthcare Workshop in Conjunction with IEEE VisWeek2017, Phoenix, USA.
13. Discovering Correlation and Regression Techniques using SPSS - Center for Teaching and Development - King Abdulaziz University.
14. Machine Learning for Python Workshop - High Performance Computing Center - King Abdulaziz University.
15. Designing Effective Assessment - King Abdulaziz University.
16. How to Conduct Systematic Review? - Center for teaching and Development - King Abdulaziz University.
17. Diploma of Academic Leadership, KAU.

## Social, Scientific and Professional Affiliation.

1. 2011-2022, memembr, IEEE.

## 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-050-611-2020.
2. 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.
3. 2020, General Funding Program for Research and Development, Deanship of Scientific Research at King Abdulaziz University, G:505-612-1442.

## Publications.

1. Mahmoud Ragab, Felwa Abukhodair, Abdullah AL-Malaise AL-Ghamdi, Sahar Shabanah, Baraa Alfasi, Mohannad Alyamani, "Synergizing Remora Optimization Algorithm And Transfer Learning For Visual Places Recognition In Intelligent Transportation Systems And Consumer Electronics", Ieee Transactions On Consumer Electronics, pp. 1-1, 2024.  
DOI: [10.1109/TCE.2024.3376376](https://doi.org/10.1109/TCE.2024.3376376)
2. Shatha Alyoubi, Manal Kalkatawi, Felwa Abukhodair, "The Detection Of Fake News In Arabic Tweets Using Deep Learning", Applied Sciences, vol: 13, pp. 8209, 2023.  
DOI: [10.3390/app13148209](https://doi.org/10.3390/app13148209)
3. Rawan Alaufi, Manal Kalkatawi, Felwa Abukhodair, "Challenges Of Deep Learning Diagnosis For Covid-19 From Chest Imaging", Multimedia Tools And Applications, 2023.  
DOI: [10.1007/s11042-023-16017-1](https://doi.org/10.1007/s11042-023-16017-1)
4. Reem Alotaibi, Felwa Abukhodair, "Radiation Dose Tracking In Computed Tomography Using Data Visualization", Technologies, vol: 11, pp. 74, 2023.  
DOI: [10.3390/technologies11030074](https://doi.org/10.3390/technologies11030074)
5. Dalal Abdullallah Aljohany, Hassanin M. Al-Barhamtoshy, Felwa Abdulkarim Abukhodair, "Arabic Machine Translation (Armt) Based On Lstm With Attention Mechanism Architecture", 2022 20th International Conference On Language Engineering (Esolec), pp. 78-83, 2022.  
DOI: [10.1109/ESOLEC54569.2022.10009530](https://doi.org/10.1109/ESOLEC54569.2022.10009530)
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](https://doi.org/10.1109/ESOLEC54569.2022.10009375)
7. Raghad ALASSIRI, Felwa ABUKHODAIR, Manal KALKATAWI, Khalid KHASHOGGI, Reem ALOTAIBI, "Covid-19 Diagnosis From Chest Ct Scan Images Using Deep Learning", Romanian Journal Of Information Technology And Automatic Control, vol: 32, pp. 65-72, 2022.  
DOI: [10.33436/v32i3y202205](https://doi.org/10.33436/v32i3y202205)
8. Elaf Alshehri, Manal Kalkatawi, Felwa Abukhodair, Khalid Khashoggi, Reem Alotaibi, "Covid-19 Diagnosis From Medical Images Using Transfer Learning", Saudi Journal Of Health Systems Research, pp. 1-8, 2022.  
DOI: [10.1159/000521658](https://doi.org/10.1159/000521658)
9. 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 & Continua, 2021.
10. 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](https://doi.org/10.3390/math9202627)
11. Azza S Reda, Dalia Abdulmonem Hashem, Khalid Khashoggi, Felwa Abukhodair, "Clinicians' Behavior Toward Radiology Reports: A Cross-Sectional Study", Cureus, 2020.  
DOI: [10.7759/cureus.11336](https://doi.org/10.7759/cureus.11336)
12. Felwa Abukhodair, Khalid Khashoggi, Tim O'Connell, Chris Shaw, "Radstream: An Interactive Visual Display Of Radiology Workflow For Delay Detection In The Clinical Imaging Process", 2017 Ieee Workshop On Visual Analytics In Healthcare (Vahc), pp. 69-76, 2017.  
DOI: [10.1109/VAHC.2017.8387543](https://doi.org/10.1109/VAHC.2017.8387543)

## **Publications.**

13. Felwa A. Abukhodair, Pak Chung Wong, David L. Kao, Bernhard E. Riecke, Halil I. Erhan, Ming C. Hao, Chaomei Chen, Chris D. Shaw, Christopher G. Healey, "Does Interactive Animation Control Improve Exploratory Data Analysis Of Animated Trend Visualization?", *Is&T/Spie Electronic Imaging*, pp. 86540I, 2013.  
DOI: [10.1117/12.2001874](https://doi.org/10.1117/12.2001874)