

Academic Resume



Abdullah Basuhail

Professor, Computer Science Department

PhD in Computer Engineering

Contact Information.

Building 21, Room 153, Ext. 67550, abasuhail@kau.edu.sa.

Highest Degree.

1998, Ph.D. in Computer Science, Digital Image Processing (Wavelet Transform), Florida Institute of Technology, USA.

Academic and Professional Experiences.

1. **2020 - Present**
Professor, , .
2. **2015 - 2020**
Associate Professor, , .
3. **2010 - Present**
Assistant Professor, FCIT, K.A.U..
4. **2010 - Present**
Coordinator of Computer Science Department Specialized Programs for the Deanship of Community Service, Deanship of Community Service, K.A.U..
5. **1999 - 2009**
Trainer, K.S.A., Technical and Vocational Training Corporation (TVTC).
6. **1986 - 1999**
TA, FCIT, K.A.U..

Research Interests.

e-Learning, Image Processing, Computer Vision, Artificial Intelligence.

Teaching Interests.

Image Processing and Computer Vision, Computer Architecture, Computer Science and Engineering.

Certifications and Trainings.

1. Course Design and Evaluation According to NCAA Standards.
2. Virtual Classes Systems: Centra.
3. Academic Innovation and Creative Thinking.
4. The Art of Using Mental Map.
5. Educational Communication in the Teaching Process.

Social, Scientific and Professional Affiliation.

1. -, Member, IEEE.
2. -, Member, Saudi Computer Society.
3. 1998-1999, Member, SPIE.
4. 2018-Present, Shams (Saudi Resources Network), National Center of e-Learning.
5. 2000-2001, Member, Saudi Computer Society.

Excellence Awards and Patents.

1. 2015, Interior, Award of Excellence in Higher Education e-Learning (Innovate), National Center for e-Learning and Distance Learning.

Funded Projects.

1. 2016, Predicting Food Production in Saudi Arabia, KACST
2. 2020, RG-8-611-40, Deanship of Scientific Research, KAU

Publications.

1. Nasser Aloufi, Abdulaziz Alnori, Vijey Thayanathan, Abdullah Basuhail, "Object Detection Performance Evaluation For Autonomous Vehicles In Sandy Weather Environments", Applied Sciences, 2023.
2. • Ulaa AlHaddad, Abdullah Basuhail, Maher Khemakhem, Fathy Elbouraey Eassa, Kamal Jambi, "Ensemble Model Based On Hybrid Deep Learning For Intrusion Detection In Smart Grid Networks", Sensors, 2023.
3. Ulaa AlHaddad, Abdullah Basuhail, Maher Khemakhem, Fathy Elbouraey Eassa and Kamal Jambi, "Towards Sustainable Energy Grids: A Machine Learning-Based Ensemble Methods Approach For Outages Estimation In Extreme Weather Events", Sustainability, 2023.
4. Adam Abdi, Fathy Eassa, Kamal Jambi, Khalid Almarhabi, Maher Khemakhem, Abdullah Basuhail and Mohammad Yamin, "Hierarchical Blockchain-Based Multi-Chaincode Access Control For Securing Iot Systems", Electronics, 2022.
5. Fatmah Alanazi, Kamal Jambi, Fathy Eassa, Maher Khemakhem, Abdullah Basuhail, Khalid Alsubhi, "Ensemble Deep Learning Models For Mitigating Ddos Attack In Software-Defined Network", Intelligent Automation & Soft Computing, 2022.
6. Lamia Almeahmadi, Abdullah Basuhail, Daniyal Alghazzawi, Osama Rabie, "Framework For Malware Triggering Using Steganography", 12, 2022.
7. • Abdullah Basuhail, Maher Khemakhem , Fathy Eassa, Junaid Qurashi, Kamal Jambi, "N-Versions-Based Resilient Traffic Control Systems", Electronics, 2022.
8. Hind Al-Hashimi, Abdullah Basuhail, "A Proposed Data Partitioning Approach On Heterogeneous Hpc Platforms: Data Locality Perspective", Ieee Access, 2021.
9. Abdullah Basuhail, "Use Of Learning Objects For Computer Programming-Based Problem Solving", Canadian Journal Of Learning And Technology, 2020.
10. • Saleh Al-Ardhi, Vijey Thayanathan, Abdullah Basuhail, "New Vector Map Watermarking Technique In Frequency Domain Based On Lca-Transform", Multimedia Tools And Applications, 2020.
11. Abdullah Basuhail, "Color Component Selection For Best Construction Of Stego Images Using Wavelets", The Fifth Saudi Technical Conference And Exhibition (Stcex 2009), Riyadh, Saudi Arabia, 2009.
12. Abdullah Basuhail, "Design And Implementation Of An E-Learning Content Using Simple And Obtainable Tools", The First International Conference On E-Learning And Distance Learning – Creating Learning For The Future, Riyadh, Saudi Arabia, 2009.
13. Abdullah Basuhail, "Analysis Of Stego Images Using Wavelet Transform", , 2007.
14. Abdullah Basuhail, "Recognition By The Ear Image Using Compressed Artificial Neural Networks", , 2004.
15. Abdullah Basuhail, "Processing Of Arabic Speech Using Multi-Level Wavelet Transform", , 2004.
16. Abdullah Basuhail, "Wavelet Compressed Model For Person Recognition By The Ear Image", , 2004.
17. Abdullah Basuhail, "Improving The Recognition Of Noisy Arabic Speech Via Wavelet Compression", , 2003.
18. Abdullah Basuhail, "Improved Identification Of Noisy Fingerprints Using Wavelet", , 2002.
19. Abdullah Basuhail, "Adaptive Wavelet Threshold Selection Using Higher-Order Statistics For Signal Denoising", , 1997.
20. Abdullah Basuhail, "Wavelet-Based Noise Reduction In Multispectral Imagery", , 1997.

Publications.

21. Abdullah Basuhail, "Image Compression Using Neural Networks", , 1994.