

Academic Resume



Wadee Alhalabi

Professor, Computer Science Department

Contact Information.

Building 31, Room 150, Ext. 64494, wsalhalabi@kau.edu.sa.

Highest Degree.

2008, Ph.D. in Electrical and Computer Engineering, Machine Learning, University of Miami, USA.

Academic and Professional Experiences.

1. **2019 - Present**
Professor, Department of Computer Science, KAU.
2. **2016 - 2019**
Associate Professor, Department of Computer Science, KAU.
3. **2011 - 2016**
Assistant Professor Department of Computer Science, fcit, KAU.

Research Interests.

Virtual Reality, Machine Learning, Operating Systems.

Teaching Interests.

Machine Learning, Operating systems, Computer Architecture.

Certifications and Trainings.

Social, Scientific and Professional Affiliation.

Excellence Awards and Patents.

1. 2010, Interior, First place winner in Ibtikar Exhibition 2010 for the project ?cure children diagnosed with acute lymphocytic leukemia using virtual reality., Ibtikar 2010.
2. 2007, Interior, Umm alqura University, college of science prize for the best student project, UQU.
3. 2007, Interior, 2007, Almara Prize for scientific brilliance in research for our project Cure children diagnosed with acute lymphocytic leukemia using virtual reality, KACST.
4. 1998, Interior, Prince Naif Bin Abdulaziz prize for industrial security., MoI.

Publications.

1. Taima Alrimy 1, Wadee Alhalabi, Areej Malibari, Fatma Alzahrani, Sharifah Alrajhi, Ayman Yamani, Halah Ahmed, Amro Abduljawad, Essam Nasser, Samar ALattar, Buthinah Alharby, Hasna Khalid, Mohammed Alhalabi, Hunter G. Hoffman, and Keira P. Mason, "Desktop Virtual Reality Offers A Novel Approach To Minimize Pain And Anxiety During Burn Wound Cleaning/Debridement In Infants And Young Children: A Randomized Crossover Pilot Study", *Journal Of Clinical Medicine*, 2023.
2. Dongfen Li, Jinshan Lai, Ruijin Wang, Xiong Li, Pandi Vijayakumar, Brij B. Gupta, Wadee Alhalabi, "Ubiquitous Intelligent Federated Learning Privacy-Preserving Scheme Under Edge Computing", *Future Generation Computer Systems*, vol: 144, pp. 205-218, 2023.
DOI: [10.1016/j.future.2023.03.010](https://doi.org/10.1016/j.future.2023.03.010)
3. Yousheng Zhou, Liyuan Song, Yuanni Liu, Pandi Vijayakumar, Brij B. Gupta, Wadee Alhalabi, Hind Alsharif, "A Privacy-Preserving Logistic Regression-Based Diagnosis Scheme For Digital Healthcare", *Future Generation Computer Systems*, vol: 144, pp. 63-73, 2023.
DOI: [10.1016/j.future.2023.02.022](https://doi.org/10.1016/j.future.2023.02.022)
4. Hunter G. Hoffman, Miles R. Fontenot, Azucena Garcia-Palacios, Walter J. Greenleaf, Wadee Alhalabi, Michele Curatolo, Herta Flor, "Adding Tactile Feedback Increases Avatar Ownership And Makes Virtual Reality More Effective At Reducing Pain In A Randomized Crossover Study", *Scientific Reports*, vol: 13, 2023.
DOI: [10.1038/s41598-023-31038-4](https://doi.org/10.1038/s41598-023-31038-4)
5. Kwok Tai Chui, Brij B. Gupta, Miguel Torres-Ruiz, Varsha Arya, Wadee Alhalabi, Ikhlas Fuad Zamzami, "A Convolutional Neural Network-Based Feature Extraction And Weighted Twin Support Vector Machine Algorithm For Context-Aware Human Activity Recognition", *Electronics*, vol: 12, pp. 1915, 2023.
DOI: [10.3390/electronics12081915](https://doi.org/10.3390/electronics12081915)
6. Wadee Alhalabi, Amal Al-Rasheed, Hariprasath Manoharan, Eatedal Alabdulkareem, Mai Alduailij, Mona Alduailij, Shitharth Selvarajan, "Distinctive Measurement Scheme For Security And Privacy In Internet Of Things Applications Using Machine Learning Algorithms", *Electronics*, vol: 12, pp. 747, 2023.
DOI: [10.3390/electronics12030747](https://doi.org/10.3390/electronics12030747)
7. Rita Hitching, Hunter G. Hoffman, Azucena Garcia-Palacios, Maheen M. Adamson, Esmeralda Madrigal, Wadee Alhalabi, Ahad Alhudali, Mariana Sampaio, Barry Peterson, Miles R. Fontenot, Keira P. Mason, "The Emerging Role Of Virtual Reality As An Adjunct To Procedural Sedation And Anesthesia: A Narrative Review", *Journal Of Clinical Medicine*, vol: 12, pp. 843, 2023.
DOI: [10.3390/jcm12030843](https://doi.org/10.3390/jcm12030843)
8. Yuelong Zheng, Siman Liu, Yan Zhao, Chunjia Han, Qijun Zhou, Lin Wang, Francesco Colace, Wadee Alhalabi, Hind Alsharif, "Game Analysis On General Purpose Technology Cooperative R&D With Fairness Concern From The Technology Chain Perspective", *Journal Of Innovation & Knowledge*, vol: 8, pp. 100312, 2023.
DOI: [10.1016/j.jik.2023.100312](https://doi.org/10.1016/j.jik.2023.100312)
9. Silin Li, Luwen Gao, Chunjia Han, Brij Gupta, Wadee Alhalabi, Sultan Almakdi, "Exploring The Effect Of Digital Transformation On Firms' Innovation Performance", *Journal Of Innovation & Knowledge*, vol: 8, pp. 100317, 2023.
DOI: [10.1016/j.jik.2023.100317](https://doi.org/10.1016/j.jik.2023.100317)
10. Ezdihar Bifari, Wadee Alhalabi, "Exploring Narrative Court Documents For Use In Police Academic Education", 2022 14th International Conference On Computational Intelligence And Communication Networks (Cicn), pp. 41-45, 2022.
DOI: [10.1109/CICN56167.2022.10008327](https://doi.org/10.1109/CICN56167.2022.10008327)

Publications.

11. Ikhlal Fuad Zamzami, Kuldeep Pathoe, Brij B. Gupta, Anupama Mishra, Deepesh Rawat, Wadee Alhalabi, "Machine Learning Algorithms For Smart And Intelligent Healthcare System In Society 5.0", International Journal Of Intelligent Systems, vol: 37, pp. 11742-11763, 2022.
DOI: [10.1002/int.23061](https://doi.org/10.1002/int.23061)
12. Ankit K. Jain, Brij B. Gupta, Kamaljeet Kaur, Piyush Bhutani, Wadee Alhalabi, Ammar Almomani, "A Content And Url Analysis?Based Efficient Approach To Detect Smishing Sms In Intelligent Systems", International Journal Of Intelligent Systems, vol: 37, pp. 11117-11141, 2022.
DOI: [10.1002/int.23035](https://doi.org/10.1002/int.23035)
13. Sudhakar Kumar, Sunil K. Singh, Naveen Aggarwal, Brij B. Gupta, Wadee Alhalabi, Shahab S. Band, "An Efficient Hardware Supported And Parallelization Architecture For Intelligent Systems To Overcome Speculative Overheads", International Journal Of Intelligent Systems, vol: 37, pp. 11764-11790, 2022.
DOI: [10.1002/int.23062](https://doi.org/10.1002/int.23062)
14. Akshat Gaurav, Brij B. Gupta, Wadee Alhalabi, Anna Visvizi, Yousef Asiri, "A Comprehensive Survey On Ddos Attacks On Various Intelligent Systems And It'S Defense Techniques", International Journal Of Intelligent Systems, vol: 37, pp. 11407-11431, 2022.
DOI: [10.1002/int.23048](https://doi.org/10.1002/int.23048)
15. E Alsanea, "Prediction Of Radioactive Injection Dosage For Pet Imaging", 25, 2021.
16. Jamilah Rabeh Alharbi, "Hybrid Approach For Sentiment Analysis Of Twitter Posts Using A Dictionary-Based Approach And Fuzzy Logic Methods: Study Case On Cloud Service Providers", 16, 2020.
17. Wadee S. Alhalabi, Mobeen Alhalabi, "Color Coded Cards For Student Behavior Management In Higher Education Environments", The International Review Of Research In Open And Distributed Learning, vol: 18, 2017.
DOI: [10.19173/irrodl.v18i1.2667](https://doi.org/10.19173/irrodl.v18i1.2667)
18. Wadee S. Alhalabi, Afnan Bawazir, Mubarak Mohammad, Akila Sarirete, "Matching And Ranking Trustworthy Context-Dependent Universities", International Journal On Semantic Web And Information Systems, vol: 13, pp. 109-124, 2017.
DOI: [10.4018/IJSWIS.2017040107](https://doi.org/10.4018/IJSWIS.2017040107)
19. Sergio Cer??n-Figueroa, Itzam?? L??pez-Y????ez, Wadee Alhalabi, Oscar Camacho-Nieto, Yenny Villuendas-Rey, Mario Aldape-P??rez, Cornelio Y????ez-M??rquez, "Instance-Based Ontology Matching For E-Learning Material Using An Associative Pattern Classifier", Computers In Human Behavior, vol: 69, pp. 218-225, 2017.
DOI: [10.1016/j.chb.2016.12.039](https://doi.org/10.1016/j.chb.2016.12.039)
20. Jocelyn Gomez, Hunter G. Hoffman, Steven L. Bistricky, Miriam Gonzalez, Laura Rosenberg, Mariana Sampaio, Azucena Garcia-Palacios, Maria V. Navarro-Haro, Wadee Alhalabi, Marta Rosenberg, Walter J. Meyer, Marsha M. Linehan, "The Use Of Virtual Reality Facilitates Dialectical Behavior Therapy?? ???Observing Sounds And Visuals??? Mindfulness Skills Training Exercises For A Latino Patient With Severe Burns: A Case Study", Frontiers In Psychology, vol: 8, 2017.
DOI: [10.3389/fpsyg.2017.01611](https://doi.org/10.3389/fpsyg.2017.01611)
21. Jocelyn Gomez, Hunter G. Hoffman, Steven L. Bistricky, Miriam Gonzalez, Laura Rosenberg, Mariana Sampaio, Azucena Garcia-Palacios, Maria V. Navarro-Haro, Wadee Alhalabi, Marta Rosenberg, Walter J. Meyer, Marsha M. Linehan, "The Use Of Virtual Reality Facilitates Dialectical Behavior Therapy?? ???Observing Sounds And Visuals??? Mindfulness Skills Training Exercises For A Latino Patient With Severe Burns: A Case Study", Frontiers In Psychology, vol: 8, 2017.
DOI: [10.3389/fpsyg.2017.01611](https://doi.org/10.3389/fpsyg.2017.01611)

Publications.

22. Tsuang Kuo, Gwo Yang Tsai, Yen-Chun Jim Wu, Wadee Alhalabi, "From Sociability To Creditability For Academics", Computers In Human Behavior, vol: 75, pp. 975-984, 2017.
DOI: [10.1016/j.chb.2016.07.044](https://doi.org/10.1016/j.chb.2016.07.044)
23. Tsuang Kuo, Gwo Yang Tsai, Yen-Chun Jim Wu, Wadee Alhalabi, "From Sociability To Creditability For Academics", Computers In Human Behavior, vol: 75, pp. 975-984, 2017.
DOI: [10.1016/j.chb.2016.07.044](https://doi.org/10.1016/j.chb.2016.07.044)
24. Aqeel Farooq, Wadee Alhalabi, Sara M. Alahmadi, "Traffic Systems In Smart Cities Using Labview", Journal Of Science And Technology Policy Management, 2017.
DOI: [10.1108/JSTPM-05-2017-0015](https://doi.org/10.1108/JSTPM-05-2017-0015)
25. Wadee Alhalabi, Elena Niculina Dragoi, "Influence Of Randomization Strategies And Problem Characteristics On The Performance Of Differential Search Algorithm", Applied Soft Computing, vol: 61, pp. 88-110, 2017.
DOI: [10.1016/j.asoc.2017.08.001](https://doi.org/10.1016/j.asoc.2017.08.001)
26. Wadee Alhalabi, Elena Niculina Dragoi, "Influence Of Randomization Strategies And Problem Characteristics On The Performance Of Differential Search Algorithm", Applied Soft Computing, vol: 61, pp. 88-110, 2017.
DOI: [10.1016/j.asoc.2017.08.001](https://doi.org/10.1016/j.asoc.2017.08.001)
27. Wadee Alhalabi, "Patient Monitoring At Home Using 32-Channel Cost-Effective Data Acquisition Device", Telematics And Informatics, 2017.
DOI: [10.1016/j.tele.2017.12.004](https://doi.org/10.1016/j.tele.2017.12.004)
28. Miguel Torres-Ruiz, Marco Moreno-Ibarra, Wadee Alhalabi, Rolando Quintero, Giovanni Guzmán, "Towards A Microscopic Model For Analyzing The Pedestrian Mobility In An Urban Infrastructure", Journal Of Science And Technology Policy Management, 2017.
DOI: [10.1108/JSTPM-05-2017-0023](https://doi.org/10.1108/JSTPM-05-2017-0023)
29. Maria V. Nararro-Haro, Hunter G. Hoffman, Azucena Garcia-Palacios, Mariana Sampaio, Wadee Alhalabi, Karyn Hall, Marsha Linehan, "The Use Of Virtual Reality To Facilitate Mindfulness Skills Training In Dialectical Behavioral Therapy For Borderline Personality Disorder: A Case Study", Frontiers In Psychology, vol: 7, 2016.
DOI: [10.3389/fpsyg.2016.01573](https://doi.org/10.3389/fpsyg.2016.01573)
30. Min-Chun Yu, Yen-Chun Jim Wu, Wadee Alhalabi, Hao-Yun Kao, Wen-Hsiung Wu, "Researchgate: An Effective Altmetric Indicator For Active Researchers?", Computers In Human Behavior, vol: 55, pp. 1001-1006, 2016.
DOI: [10.1016/j.chb.2015.11.007](https://doi.org/10.1016/j.chb.2015.11.007)
31. M. Haghighat, M. Abdel-Mottaleb, W. Alhalabi, "Discriminant Correlation Analysis For Feature Level Fusion With Application To Multimodal Biometrics", 2016 Ieee International Conference On Acoustics, Speech And Signal Processing (Icassp), pp. 1866-1870, 2016.
DOI: [10.1109/ICASSP.2016.7472000](https://doi.org/10.1109/ICASSP.2016.7472000)
32. Mohammad Haghighat, Mohamed Abdel-Mottaleb, Wadee Alhalabi, "Fully Automatic Face Normalization And Single Sample Face Recognition In Unconstrained Environments", Expert Systems With Applications, vol: 47, pp. 23-34, 2016.
DOI: [10.1016/j.eswa.2015.10.047](https://doi.org/10.1016/j.eswa.2015.10.047)
33. Miguel Torres, Eduardo Loza, Wadee Al-Halabi, Giovanni Guzman, Rolando Quintero, Marco Moreno-Ibarra, "Qualitative Spatial Reasoning Methodology To Determine The Particular Domain Of A Set Of Geographic Objects", Computers In Human Behavior, vol: 59, pp. 115-133, 2016.
DOI: [10.1016/j.chb.2016.01.034](https://doi.org/10.1016/j.chb.2016.01.034)

Publications.

34. Robert E. Wendrich, Kris-Howard Chambers, Wadee Al-Halabi, Eric J. Seibel, Olaf Grevenstuck, David Ullman, Hunter G. Hoffman, "Hybrid Design Tools In A Social Virtual Reality Using Networked Oculus Rift: A Feasibility Study In Remote Real-Time Interaction", Asme 2016 International Design Engineering Technical Conferences And Computers And Information In Engineering Conference, pp. V01BT02A042, 2016.
DOI: [10.1115/DETC2016-59956](https://doi.org/10.1115/DETC2016-59956)
35. Mohammad Haghighat, Mohamed Abdel-Mottaleb, Wadee Alhalabi, "Discriminant Correlation Analysis: Real-Time Feature Level Fusion For Multimodal Biometric Recognition", Ieee Transactions On Information Forensics And Security, vol: 11, pp. 1984-1996, 2016.
DOI: [10.1109/TIFS.2016.2569061](https://doi.org/10.1109/TIFS.2016.2569061)
36. Wadee S. Alhalabi, "Virtual Reality Systems Enhance Students??? Achievements In Engineering Education", Behaviour & Information Technology, vol: 35, pp. 919-925, 2016.
DOI: [10.1080/0144929X.2016.1212931](https://doi.org/10.1080/0144929X.2016.1212931)
37. Wadee Alhalabi, Omar Kitanneh, Amira Alharbi, Zain Balfakih, Akila Sarirete, "Efficient Solution For Finding Hamilton Cycles In Undirected Graphs", Springerplus, vol: 5, 2016.
DOI: [10.1186/s40064-016-2746-8](https://doi.org/10.1186/s40064-016-2746-8)
38. Ammar Alsaig, Vangalur Alagar, Mubarak Mohammad, Wadee Alhalabi, "A User-Centric Semantic-Based Algorithm For Ranking Services: Design And Analysis", Service Oriented Computing And Applications, vol: 11, pp. 101-120, 2016.
DOI: [10.1007/s11761-016-0200-y](https://doi.org/10.1007/s11761-016-0200-y)
39. Miltiadis D. Lytras, Hassan I. Mathkour, Hassan Abdalla, Wadee Al-Halabi, Cornelio Yanez-Marquez, Sean Wolfgang Matsui Siqueira, "An Emerging ??? Social And Emerging Computing Enabled Philosophical Paradigm For Collaborative Learning Systems: Toward High Effective Next Generation Learning Systems For The Knowledge Society", Computers In Human Behavior, vol: 51, pp. 557-561, 2015.
DOI: [10.1016/j.chb.2015.06.004](https://doi.org/10.1016/j.chb.2015.06.004)
40. Wadee Alhalabi, A. Alsubhi, "Use Of Computer Generated Environments To Cure Post-Stroke Paralysis", Accepted For Publishing In International Conference On Modeling And Simulation, Banff, Alberta, Canada, 2009.
41. Wadee Alhalabi, M. Alqurashi, M. Basuliman, "A Leap Toward Optimization: Should Test Centers At Educational Institutions Be Centralized Or Should It Remain Decentralized", Accepted For Publishing In The Proceedings Of The International Conference On Computational Intelligence, Honolulu, Hawaii, Usa, 2009.
42. Wadee Alhalabi, M. Kubat, M Tapia, "A Mathematical Formula For The Search Engine Ranking Efficiency Evaluation Tool S.E.R.E.E.T", Accepted For Publishing International Conference On Intelligent Systems And Control, Cambridge, Massachusetts, Usa, 2009.
43. F.Y. Al-Zamzami, Wadee Alhalabi, "Using Guided Imagery As A Distraction Method During Dental Procedures", , 2008.
44. Wadee Alhalabi, S.A. Aseeri, R.A. Almeleak, H.T. Al-Hashmie, "Effect Of Virtual Reality On Breast Cancer Patients", In The Proceedings Of The Modeling And Simulation Conference In Quebec City, Canada, 2008.