

Academic Resume



Adil Khadidos

Associate Professor, Information Technology Department

Contact Information.

Room 122, Ext. 64193, akhadidos@kau.edu.sa.

Highest Degree.

2017, PhD, Swarm Robotics/A.I., University of Southampton, UK.

Academic and Professional Experiences.

1. **2022 - Present**
Associate Professor, Jeddah, Saudi Arabia, King Abdulaziz University.
2. **2017 - 2022**
Assistant Professor, Jeddah, Saudi Arabia, King Abdulaziz University.
3. **2007 - 2017**
Teacher Assistant, Jeddah, Saudi Arabia, King Abdulaziz University.
4. **2006 - 2007**
Technical Support at FCIT, Jeddah, Saudi Arabia, King Abdulaziz University.

Research Interests.

Networked Robots and Devices, Swarm Robotics, Self Organisation and Self Distributed Systems, Embedded Systems, such as Arduino and Raspberry Pi, Presentation, Body Languages and Communicate with People Skills, Analysis Skills, Problem Solving Abilities, Drones, IoT, LoraWan.

Teaching Interests.

Arduino Programming, Raspberry Pi Programming, Software Engineering, Machine Learning, Internet of Things, Drones, 3D Modeling, 3D Printing.

Certifications and Trainings.

1. Appreciation Letter from Faculty of Emerging Technologies and Science, Sri Sri University (SSU), Odisha.
2. Awarded certificate for earning 9 Professional Development Hours (PDHs) for participation in the Assessment of Student Learning workshop.
3. Awarded certificate of the 14th Scientific Forum for King Abdulaziz University for participation as member of evaluation committee.
4. Awarded certificate of completing the HP LIFE course in 3D Printing.

Social, Scientific and Professional Affiliation.

1. 2012-Present, Member, IEEE.



2. 2017-Present, Member, ACM.

Publications.

1. Muen Uddin, Shitharth Selvarajan, Muath Obaidat, Shams Ul Arfeen, Alaa O. Khadidos, Adil O. Khadidos, Maha Abdelhaq, "From Hype To Reality: Unveiling The Promises, Challenges And Opportunities Of Blockchain In Supply Chain Systems", *Sustainability*, vol: 15, pp. 12193, 2023.
DOI: [10.3390/su151612193](https://doi.org/10.3390/su151612193)
2. Adil O. Khadidos, Khaled H. Alyoubi, Shalini Mahato, Alaa O. Khadidos, Sachi Nandan Mohanty, "Machine Learning And Electroencephalogram Signal Based Diagnosis Of Depression", *Neuroscience Letters*, vol: 809, pp. 137313, 2023.
DOI: [10.1016/j.neulet.2023.137313](https://doi.org/10.1016/j.neulet.2023.137313)
3. Ayman Qahmash, Izzat Al-Darraj, Adil O. Khadidos, Georgios Tsaramirsis, Alaa O. Khadidos, Mohammed Alghamdi, Akhilesh Pathak, "On-Board Digital Twin Based On Impedance And Model Predictive Control For Aerial Robot Grasping", *Journal Of Sensors*, vol: 2023, pp. 1-10, 2023.
DOI: [10.1155/2023/9662100](https://doi.org/10.1155/2023/9662100)
4. Khaled H. Alyoubi, S. Shitharth, Hariprasath Manoharan, Adil O. Khadidos, Alaa O. Khadidos, "Connotation Of Fuzzy Logic System In Underwater Communication Systems For Navy Applications With Data Indulgence Route", *Sustainable Computing: Informatics And Systems*, vol: 38, pp. 100862, 2023.
DOI: [10.1016/j.suscom.2023.100862](https://doi.org/10.1016/j.suscom.2023.100862)
5. Shitharth Selvarajan, Gautam Srivastava, Alaa O. Khadidos, Adil O. Khadidos, Mohamed Baza, Ali Alshehri, Jerry Chun-Wei Lin, "An Artificial Intelligence Lightweight Blockchain Security Model For Security And Privacy In Iiot Systems", *Journal Of Cloud Computing*, vol: 12, 2023.
DOI: [10.1186/s13677-023-00412-y](https://doi.org/10.1186/s13677-023-00412-y)
6. Adil O. Khadidos, Khaled H. Alyoubi, Shalini Mahato, Alaa O. Khadidos, Sachi Nandan Mohanty, "Computer Aided Detection Of Major Depressive Disorder (Mdd) Using Electroencephalogram Signals", *Ieee Access*, vol: 11, pp. 41133-41141, 2023.
DOI: [10.1109/ACCESS.2023.3262930](https://doi.org/10.1109/ACCESS.2023.3262930)
7. S Shitharth, Fahad S. Alotaibi, Hariprasath Manoharan, Adil O. Khadidos, Khaled H. Alyoubi, Abdulrhman M. Alshareef, "Reconnoitering The Significance Of Security Using Multiple Cloud Environments For Conveyance Applications With Blowfish Algorithm", *Journal Of Cloud Computing*, vol: 11, 2022.
DOI: [10.1186/s13677-022-00351-0](https://doi.org/10.1186/s13677-022-00351-0)
8. Adil Khadidos, "A Comprehensive Study On Robots In Health And Social Care", vol: 490, pp. 515-525, 2022.
DOI: [10.1007/978-981-19-4052-1_51](https://doi.org/10.1007/978-981-19-4052-1_51)
9. Mohammed Almshari, Adil O. Khadidos, Georgios Tsaramirsis, Fazal Qudus Khan, Alaa Khadidos, Iordanis K. Giannopoulos, Assimakis K. Leros, Dimitris Piromalis, Mahipal Bukya, "Setting Up Local Private Smart Grids With Data Collection Sensors For Scientific Experiments Using Mqtt And Node-Red", vol: 862, pp. 743-755, 2022.
DOI: [10.1007/978-981-19-0252-9_67](https://doi.org/10.1007/978-981-19-0252-9_67)
10. Adil O. Khadidos, S. Shitharth, Alaa O. Khadidos, K. Sangeetha, Khaled H. Alyoubi, Panagiotis Papageorgas, "Healthcare Data Security Using Iot Sensors Based On Random Hashing Mechanism", *Journal Of Sensors*, vol: 2022, pp. 1-17, 2022.
DOI: [10.1155/2022/8457116](https://doi.org/10.1155/2022/8457116)
11. Alaa O. Khadidos, Adil O. Khadidos, Hariprasath Manoharan, Khaled H. Alyoubi, Abdulrhman M. Alshareef, Shitharth Selvarajan, Albert Alexander Stonier, "Integrating Industrial Appliances For Security Enhancement In Data Point Using Scada Networks With Learning Algorithm", *International Transactions On Electrical Energy Systems*, vol: 2022, pp. 1-11, 2022.
DOI: [10.1155/2022/8685235](https://doi.org/10.1155/2022/8685235)

Publications.

12. Alaa O. Khadidos, Hariprasath Manoharan, Shitharth Selvarajan, Adil O. Khadidos, Khaled H. Alyoubi, Ayman Yafoz, "A Classy Multifacet Clustering And Fused Optimization Based Classification Methodologies For Scada Security", *Energies*, vol: 15, pp. 3624, 2022.
DOI: [10.3390/en15103624](https://doi.org/10.3390/en15103624)
13. Alaa O. Khadidos, S. Shitharth, Hariprasath Manoharan, Ayman Yafoz, Adil O. Khadidos, Khaled H. Alyoubi, "An Intelligent Security Framework Based On Collaborative Mutual Authentication Model For Smart City Networks", *Ieee Access*, vol: 10, pp. 85289-85304, 2022.
DOI: [10.1109/ACCESS.2022.3197672](https://doi.org/10.1109/ACCESS.2022.3197672)
14. Adil Khadidos, A.V.V.S. Subbalakshmi, Alaa Khadidos, Aisha Alsobhi, Syed Mufassir Yaseen, Olfat M. Mirza, "Wireless Communication Based Cloud Network Architecture Using Ai Assisted With Iot For Fintech Application", *Optik*, vol: 269, pp. 169872, 2022.
DOI: [10.1016/j.ijleo.2022.169872](https://doi.org/10.1016/j.ijleo.2022.169872)
15. YinZhuang Bai, Aizhen Ren, Adil Omar Khadidos, Moaiad Ahmad Khder, "Research And Application Of Constructing Football Training Linear Programming Based On Multiple Linear Regression Equation", *Applied Mathematics And Nonlinear Sciences*, vol: 0, 2021.
DOI: [10.2478/amns.2021.2.00063](https://doi.org/10.2478/amns.2021.2.00063)
16. Liye Zhang, Adil Omar Khadidos, Radwan Kharabsheh, "Application Of Multi-Attribute Decision-Making Methods Based On Normal Random Variables In Supply Chain Risk Management", *Applied Mathematics And Nonlinear Sciences*, vol: 0, 2021.
DOI: [10.2478/amns.2021.2.00061](https://doi.org/10.2478/amns.2021.2.00061)
17. Shangyi Liu, Adil Omar Khadidos, Mohammed Abdulrazzqa, "Adoption Of Deep Learning Markov Model Combined With Copula Function In Portfolio Risk Measurement", *Applied Mathematics And Nonlinear Sciences*, vol: 0, 2021.
DOI: [10.2478/amns.2021.2.00065](https://doi.org/10.2478/amns.2021.2.00065)
18. Adil Khadidos, "A Comprehensive Study On Robots In Health & Social Care", 3rd International Conference On Emerging Technologies In Data Mining And Information Security, 2021.
19. Adil Khadidos, "A Robust And Computationally Faster Approach To Covid-19 Diagnosis Using Shallow Convolutional Neural Architecture", *International Transaction Journal Of Engineering, Management, & Applied Sciences & Technologies*, 2021.
20. Alaa Khadidos, Adil Khadidos, Olfat M. Mirza, Tawfiq Hasanin, Wegayehu Enbeyale, Abdulsattar Abdullah Hamad, Fahd Abd Algalil, "Evaluation Of The Risk Of Recurrence In Patients With Local Advanced Rectal Tumours By Different Radiomic Analysis Approaches", *Applied Bionics And Biomechanics*, vol: 2021, pp. 1-9, 2021.
DOI: [10.1155/2021/4520450](https://doi.org/10.1155/2021/4520450)
21. Tawfiq Hasanin, Aisha Alsobhi, Adil Khadidos, Ayman Qahmash, Alaa Khadidos, Gabriel Ayodeji Ogunmola, Fahd Abd Algalil, "Efficient Multiuser Computation For Mobile-Edge Computing In Iot Application Using Optimization Algorithm", *Applied Bionics And Biomechanics*, vol: 2021, pp. 1-12, 2021.
DOI: [10.1155/2021/9014559](https://doi.org/10.1155/2021/9014559)
22. Tingyan Xing, Adil Omar Khadidos, Lin Li, "Construction Of Switch Nonlinear Dynamic System Using Adaptive Neural Network Technology", *Fractals*, 2021.
DOI: [10.1142/S0218348X22400710](https://doi.org/10.1142/S0218348X22400710)
23. Antreas Kantaros, Olaf Diegel, Dimitrios Piromalis, Georgios Tsaramirsis, Alaa Omar Khadidos, Adil Omar Khadidos, Fazal Qudus Khan, Sadeeq Jan, "3d Printing: Making An Innovative Technology Widely Accessible Through Makerspaces And Outsourced Services", *Materials Today: Proceedings*, 2021.
DOI: [10.1016/j.matpr.2021.09.074](https://doi.org/10.1016/j.matpr.2021.09.074)

Publications.

24. Medhasvi Kulshreshtha, Sushma S. Chandra, Princy Randhawa, Georgios Tsaramirsis, Adil Khadidos, Alaa O. Khadidos, "Oatcr: Outdoor Autonomous Trash-Collecting Robot Design Using Yolov4-Tiny", *Electronics*, vol: 10, pp. 2292, 2021.
DOI: [10.3390/electronics10182292](https://doi.org/10.3390/electronics10182292)
25. Omer Bin Tauqeer, Sadeeq Jan, Alaa Omar Khadidos, Adil Omar Khadidos, Fazal Qudus Khan, Sana Khattak, "Analysis Of Security Testing Techniques", *Intelligent Automation & Soft Computing*, vol: 29, pp. 291-306, 2021.
DOI: [10.32604/iasc.2021.017260](https://doi.org/10.32604/iasc.2021.017260)
26. Adil Khadidos, Alaa O. Khadidos, Srihari Kannan, Yuvaraj Natarajan, Sachi Nandan Mohanty, Georgios Tsaramirsis, "Analysis Of Covid-19 Infections On A Ct Image Using Deepsense Model", *Frontiers In Public Health*, vol: 8, 2020.
DOI: [10.3389/fpubh.2020.599550](https://doi.org/10.3389/fpubh.2020.599550)
27. Alaa O. Khadidos, Adil O. Khadidos, Fazal Qudus Khan, Georgios Tsaramirsis, Awais Ahmad, "Bayer Image Demosaicking And Denoising Based On Specialized Networks Using Deep Learning", *Multimedia Systems*, 2020.
DOI: [10.1007/s00530-020-00707-z](https://doi.org/10.1007/s00530-020-00707-z)
28. Mohammed Almshari, Georgios Tsaramirsis, Adil Omar Khadidos, Seyed Mohammed Buhari, Fazal Qudus Khan, Alaa Omar Khadidos, "Detection Of Potentially Compromised Computer Nodes And Clusters Connected On A Smart Grid, Using Power Consumption Data", *Sensors*, vol: 20, pp. 5075, 2020.
DOI: [10.3390/s20185075](https://doi.org/10.3390/s20185075)
29. Kostandinos Tsaramirsis, Georgios Tsaramirsis, Fazal Qudus Khan, Awais Ahmad, Alaa Omar Khadidos, Adil Khadidos, "More Agility To Semantic Similarities Algorithm Implementations", *International Journal Of Environmental Research And Public Health*, vol: 17, pp. 267, 2019.
DOI: [10.3390/ijerph17010267](https://doi.org/10.3390/ijerph17010267)
30. Adil Khadidos, Richard Crowder, "Enhancing Exogenous Fault Detection In Swarm Robotics By Analysing Transferable Data", *Eighth Saudi Students Conference In The Uk*, pp. 385-395, 2016.
DOI: [10.1142/9781783269150_0033](https://doi.org/10.1142/9781783269150_0033)
31. Adil Khadidos, Richard M. Crowder, Paul H. Chappell, "Exogenous Fault Detection And Recovery For Swarm Robotics", *Ifac-Papersonline*, vol: 48, pp. 2405-2410, 2015.
DOI: [10.1016/j.ifacol.2015.06.448](https://doi.org/10.1016/j.ifacol.2015.06.448)