

Academic Resume



Abdulaziz Alsulami

Assistant Professor, Information Systems Department

Abdulaziz Alsulami serves as an assistant professor in the Department of Information Systems at King Abdulaziz University. His research ambit primarily focuses on enhancing the security of cyber-physical systems, such as Autonomous Vehicles, IoT, and the Internet of Medical Things, through the application of advanced Deep Learning and Machine Learning techniques.

Contact Information.

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Highest Degree.

2021, Doctor of Philosophy, Computer Information Systems, Tennessee State University, USA.

Academic and Professional Experiences.

1. **2023 - Present**
Manager of Academic Affairs Unit, , .
2. **2023 - Present**
Manager of Computer Skills Units, , .
3. **2014 - 2021**
Teaching Assistant, , .

Research Interests.

Security of Cyber-physical systems, Security of Autonomous Vehicles, Artificial Intelligence, Machine Learning, Deep Learning, IoMT, Security of IoT.

Teaching Interests.

Cybersecurity, Computer Programming, Web Development.

Certifications and Trainings.

Social, Scientific and Professional Affiliation.

1. 2014-2021, Faculty Member, King Abdulaziz University.

Funded Projects.

1. 2023, High Impact and Indexed Research Publication, Deanship of Scientific Research, King Abdulaziz University

2. 2022, General Program, Deanship of Scientific Research King Abdulaziz University, Research Title :
Security of Autonomous Vehicles.

Publications.

1. Saeed Alqahtani, Ali Alqahtani, Mohamed A. Zohdy, Abdulaziz A. Alsulami, Subramaniam Ganesan, "Severity Grading And Early Detection Of Alzheimer'S Disease Through Transfer Learning", Information, vol: 14, pp. 646, 2023.
DOI: [10.3390/info14120646](https://doi.org/10.3390/info14120646)
2. Prashant Kumar Shukla, Ali Alqahtani, Ashish Dwivedi, Nayef Alqahtani, Piyush Kumar Shukla, Abdulaziz A. Alsulami, Dragan Pamucar, Vladimir Simic, "Attaining An Iomt-Based Health Monitoring And Prediction: A Hybrid Hierarchical Deep Learning Model And Metaheuristic Algorithm", Neural Computing And Applications, 2023.
DOI: [10.1007/s00521-023-09293-3](https://doi.org/10.1007/s00521-023-09293-3)
3. Ali Alqahtani, Qasem Abu Al-Haija, Abdulaziz A. Alsulami, Badraddin Alturki, Nayef Alqahtani, Raed Alsini, "Optimizing Chest Tuberculosis Image Classification With Oversampling And Transfer Learning", Iet Image Processing, 2023.
DOI: [10.1049/ipr2.13010](https://doi.org/10.1049/ipr2.13010)
4. Abdulaziz A. Alsulami, Qasem Abu Al-Haija, Badraddin Alturki, Ali Alqahtani, Raed Alsini, "Security Strategy For Autonomous Vehicle Cyber-Physical Systems Using Transfer Learning", Journal Of Cloud Computing, vol: 12, 2023.
DOI: [10.1186/s13677-023-00564-x](https://doi.org/10.1186/s13677-023-00564-x)
5. Ali Alqahtani, Nayef Alqahtani, Abdulaziz A. Alsulami, Stephen Ojo, Prashant Kumar Shukla, Shraddha V. Pandit, Piyush Kumar Pareek, Hany S. khalifa, "Classifying Electroencephalogram Signals Using An Innovative And Effective Machine Learning Method Based On Chaotic Elephant Herding Optimum", Expert Systems, 2023.
DOI: [10.1111/exsy.13383](https://doi.org/10.1111/exsy.13383)
6. Jaganathan Logeshwaran, Thangavel Kiruthiga, Raju Kannadasan, Loganathan Vijayaraja, Ali Alqahtani, Nayef Alqahtani, Abdulaziz A. Alsulami, "Smart Load-Based Resource Optimization Model To Enhance The Performance Of Device-To-Device Communication In 5g-Wpan", Electronics, vol: 12, pp. 1821, 2023.
DOI: [10.3390/electronics12081821](https://doi.org/10.3390/electronics12081821)
7. Chandramohan Dhasarathan, Mohammad Kamrul Hasan, Shayla Islam, Salwani Abdullah, Shailesh Khapre, Dalbir Singh, Abdulaziz A. Alsulami, Ali Alqahtani, "User Privacy Prevention Model Using Supervised Federated Learning?Based Block Chain Approach For Internet Of Medical Things", Caa Transactions On Intelligence Technology, 2023.
DOI: [10.1049/cit2.12218](https://doi.org/10.1049/cit2.12218)
8. Aiman Hafeez, Tariq Ali, Asif Nawaz, Saif Ur Rehman, Azhar Imran Mudasir, Abdulaziz A. Alsulami, Ali Alqahtani, "Addressing Imbalance Problem For Multi Label Classification Of Scholarly Articles", Ieee Access, vol: 11, pp. 74500-74516, 2023.
DOI: [10.1109/ACCESS.2023.3293852](https://doi.org/10.1109/ACCESS.2023.3293852)
9. Erkan ?eng?nül, Refik Samet, Qasem Abu Al-Haija, Ali Alqahtani, Badraddin Alturki, Abdulaziz A. Alsulami, "An Analysis Of Artificial Intelligence Techniques In Surveillance Video Anomaly Detection: A Comprehensive Survey", Applied Sciences, vol: 13, pp. 4956, 2023.
DOI: [10.3390/app13084956](https://doi.org/10.3390/app13084956)
10. Rayan A. Alsemmeari, Mohamed Yehia Dahab, Badraddin Alturki, Abdulaziz A. Alsulami, "Priority Detector And Classifier Techniques Based On Ml For The Iomt", Computers, Materials & Continua, vol: 76, pp. 1853-1870, 2023.
DOI: [10.32604/cmc.2023.038589](https://doi.org/10.32604/cmc.2023.038589)
11. Rayan A. Alsemmeari, Mohamed Yehia Dahab, Badraddin Alturki, Abdulaziz A. Alsulami, Raed Alsini, "Towards An Effective Service Allocation In Fog Computing", Sensors, vol: 23, pp. 7327, 2023.
DOI: [10.3390/s23177327](https://doi.org/10.3390/s23177327)

Publications.

12. Rayan A. Alsemmeari, Mohamed Yehia Dahab, Abdulaziz A. Alsulami, Badraddin Alturki, Sultan Algarni, "Resilient Security Framework Using Tnn And Blockchain For Iomt", *Electronics*, vol: 12, pp. 2252, 2023.
DOI: [10.3390/electronics12102252](https://doi.org/10.3390/electronics12102252)
13. Ali Alqahtani, Abdulaziz A. Alsulami, Saeed Alahmari, Mesfer Alrizq, "Accurate Phase Detection For Zigbee Using Artificial Neural Network", *Intelligent Automation & Soft Computing*, vol: 36, pp. 2505-2518, 2023.
DOI: [10.32604/iasc.2023.033243](https://doi.org/10.32604/iasc.2023.033243)
14. Abdulaziz A. Alsulami, Qasem Abu Al-Haija, Ahmad Tayeb, Ali Alqahtani, "An Intrusion Detection And Classification System For Iot Traffic With Improved Data Engineering", *Applied Sciences*, vol: 12, pp. 12336, 2022.
DOI: [10.3390/app122312336](https://doi.org/10.3390/app122312336)
15. Qasem Abu Al-Haija, Abdulaziz A. Alsulami, "Detection Of Fake Replay Attack Signals On Remote Keyless Controlled Vehicles Using Pre-Trained Deep Neural Network", *Electronics*, vol: 11, pp. 3376, 2022.
DOI: [10.3390/electronics11203376](https://doi.org/10.3390/electronics11203376)
16. Ali Alqahtani, Mirza Mumtaz Zahoor, Rimsha Nasrullah, Aqil Fareed, Ahmad Afzaal Cheema, Abdullah Shahrose, Muhammad Irfan, Abdulmajeed Alqhatani, Abdulaziz A. Alsulami, Maryam Zaffar, Saifur Rahman, "Computer Aided Covid-19 Diagnosis In Pandemic Era Using Cnn In Chest X-Ray Images", *Life*, vol: 12, pp. 1709, 2022.
DOI: [10.3390/life12111709](https://doi.org/10.3390/life12111709)
17. Abdulaziz A. Alsulami, Qasem Abu Al-Haija, Ali Alqahtani, Raed Alsini, "Symmetrical Simulation Scheme For Anomaly Detection In Autonomous Vehicles Based On Lstm Model", *Symmetry*, vol: 14, pp. 1450, 2022.
DOI: [10.3390/sym14071450](https://doi.org/10.3390/sym14071450)
18. YU MIAO, XIN JIN, ABDULAZIZ A. ALSULAMI, MENGLEI KONG, PANG XU, "The Complexity Of Supply Chain System'S Logistics Financial Management And Dynamic Nonlinear System", *Fractals*, vol: 30, 2022.
DOI: [10.1142/S0218348X2240059X](https://doi.org/10.1142/S0218348X2240059X)
19. Zulqurnain Sabir, Thongchai Botmart, Muhammad Asif Zahoor Raja, Wajaree weera, R. Sadat, Mohamed R. Ali, Abdulaziz A. Alsulami, Abdullah Alghamdi, "Artificial Neural Network Scheme To Solve The Nonlinear Influenza Disease Model", *Biomedical Signal Processing And Control*, vol: 75, pp. 103594, 2022.
DOI: [10.1016/j.bspc.2022.103594](https://doi.org/10.1016/j.bspc.2022.103594)
20. Abdul Rehman, Muhammad Ahmed Qureshi, Tariq Ali, Muhammad Irfan, Saima Abdullah, Sana Yasin, Umar Draz, Adam Glowacz, Grzegorz Nowakowski, Abdullah Alghamdi, Abdulaziz A. Alsulami, Mariusz W?grzyn, "Smart Fire Detection And Deterrent System For Human Savior By Using Internet Of Things (Iot)", *Energies*, vol: 14, pp. 5500, 2021.
DOI: [10.3390/en14175500](https://doi.org/10.3390/en14175500)
21. Abdulaziz A. Alsulami, Saleh Zein-Sabatto, "Defending Aviation Cyber-Physical Systems From Ddos Attack Using Narx Model", pp. 1107-1122, 2021.
DOI: [10.1007/978-3-030-70296-0_88](https://doi.org/10.1007/978-3-030-70296-0_88)
22. Abdulaziz A. Alsulami, Saleh Zein-Sabatto, "Resilient Cyber-Security Approach For Aviation Cyber-Physical Systems Protection Against Sensor Spoofing Attacks", 2021 Ieee 11th Annual Computing And Communication Workshop And Conference (Cccw), pp. 0565-0571, 2021.
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23. Mehrbakhsh Nilashi, Behrouz Minaei-Bidgoli, Mesfer Alrizq, Abdullah Alghamdi, Abdulaziz A. Alsulami, Sarminah Samad, Saidatulakmal Mohd, "An Analytical Approach For Big Social Data Analysis For Customer Decision-Making In Eco-Friendly Hotels", *Expert Systems With Applications*, vol: 186, pp. 115722, 2021.
DOI: [10.1016/j.eswa.2021.115722](https://doi.org/10.1016/j.eswa.2021.115722)
24. Qasem Abu Al-Haija, Abdulaziz A. Alsulami, "High Performance Classification Model To Identify Ransomware Payments For Heterogeneous Bitcoin Networks", *Electronics*, vol: 10, pp. 2113, 2021.
DOI: [10.3390/electronics10172113](https://doi.org/10.3390/electronics10172113)
25. Mehrbakhsh Nilashi, Rabab Ali Abumalloh, Abdullah Alghamdi, Behrouz Minaei-Bidgoli, Abdulaziz A. Alsulami, Mohammed Thanoon, Shahla Asadi, Sarminah Samad, "What Is The Impact Of Service Quality On Customers' Satisfaction During Covid-19 Outbreak? New Findings From Online Reviews Analysis", *Telematics And Informatics*, vol: 64, pp. 101693, 2021.
DOI: [10.1016/j.tele.2021.101693](https://doi.org/10.1016/j.tele.2021.101693)
26. Abdulaziz A. Alsulami, Saleh Zein-Sabatto, "Detection And Defense From False Data Injection Attacks In Aviation Cyber-Physical Systems Using Artificial Immune Systems", *2020 International Conference On Computational Science And Computational Intelligence (Csci)*, pp. 69-75, 2020.
DOI: [10.1109/CSCI51800.2020.00019](https://doi.org/10.1109/CSCI51800.2020.00019)
27. Abdulaziz Atiah Alsulami, Saleh Zein-Sabatto, "A Comparative Study On The Performance Of Model Reference Adaptive Control System Utilizing Linearized And Nonlinear Aircraft Models", *Southeastcon 2020*, pp. 1-5, 2020.
DOI: [10.1109/SoutheastCon44009.2020.93682](https://doi.org/10.1109/SoutheastCon44009.2020.93682)
28. Abdulaziz A. Alsulami, Qasem Abu Al-Haija, Mohammed I. Thanoon, Qian Mao, "Performance Evaluation Of Dynamic Round Robin Algorithms For Cpu Scheduling", *Southeastcon 2019*, pp. 1-5, 2019.
DOI: [10.1109/SoutheastCon42311.2019.90204](https://doi.org/10.1109/SoutheastCon42311.2019.90204)