

Academic Resume



Daniyal Alghazzawi

Professor, Information Systems Department

Daniyal Alghazzawi is a Professor in the Information Systems Department and the Head of the Information Security Group at King Abdulaziz University. He received his Ph.D. in the field of CS at the University of Kansas in the US. He served in several administrative positions due to his outstanding leadership and administrative skills. He organizes several local and international workshops. He has published many research papers and patents in the field of smart e-learning, cybersecurity and AI.

Contact Information.

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Highest Degree.

2007, Ph.D. in Computer Science, Intelligent Information Security, University of Kansas, USA.

Academic and Professional Experiences.

1. **2023 - Present**
Visiting Professor, Hubei University, China, , .
2. **2022 - Present**
Director The Cybersecurity Center King Abdulaziz University, KSA, , .
3. **2017 - Present**
Professor, FCIT, KAU.
4. **2012 - 2017**
Associate Professor, FCIT, KAU.
5. **2010 - Present**
Honorary Lecturer, School of Computer Science and Electronic Engineering, University of Essex.
6. **2007 - 2012**
Chairman of Information Systems Department, FCIT, KAU.
7. **2007 - 2012**
General Supervisor on Labs and Technical Affairs, FCIT, KAU.
8. **2007 - 2012**
Assistance Professor, FCIT, KAU.
9. **2006 - 2007**
Web programmer, , ALTec (Advanced Learning Technologies).
10. **2002 - 2004**
Web programmer, , ALTec (Advanced Learning Technologies).
11. **1999 - 2000**
Teacher Assistance, FCIT, KAU.

Research Interests.

Smart E-Learning, Cybersecurity, Artificial Intelligence.

Teaching Interests.

E-Learning, Cybersecurity, Artificial Intelligent.

Certifications and Trainings.

1. Theories of Inventive Problem Solving (TRIZ).
2. Quality Management System ISO 9001:2008.
3. PMP preliminary.
4. Professional Development and Study Program for Heads of Departments.
5. Research Capacity Training Program.
6. Design & Implementation of Electronic MCQS, Questions Banks, & Online Tests.
7. Department of Ambition.
8. Program Assessment workshop.
9. Effective Strategic Leadership.
10. PhD Supervision, Administration and Management.
11. Effective Motivational Leadership.
12. Effective Personal Productivity.
13. E-learning system (emes) and the virtual classrooms system.
14. ICASSP (International Conference on Acoustics, Speech, and Signal Processing).
15. AAAI (American Association for Artificial Intelligence).
16. CSI - Building the Secure Enterprise.
17. USENIX - Security Symposium.
18. SANS, (Hacker Techniques, Exploits and Incident Handling).
19. Digital Strategic Plan for the Education Sector.
20. International Companies and Development service.
21. CFIS Advanced Forensic Investigation: Hands On.
22. Acknowledgment for Guidance and Counsel.
23. Rehabilitation Workshop for International Participations.
24. Conceptualizing Academic Advising: Reality & Hope.
25. Academic Advising in Higher Education of the Gulf Cooperation Council States: Reality and Hope.
26. Fighting Electronic Crimes.
27. ICS Active Defense and Incident Response.
28. Computer Forensics Online Training.
29. An Introduction to Interactive Programming in Python.
30. Statistics One.
31. Cryptography I.
32. Effective Personal Leadership.
33. Innovation Gallery.
34. Second Annual Undergraduate Research Conference on Applied Computing.
35. Healthcare IT & PACS Course.
36. Building a help desk section in the School of Science.
37. Admission System.
38. Academic Excellence.
39. Effective Leadership Development.
40. Certified Ethical Hacker, EC-Council (Trainee).
41. Certified Ethical Hacker, EC-Council (Certified Trainer).
42. Blockchain Technology, Modern Technology Expert House, Faculty of Computing and Information Technology, King Abdulaziz University, KSA..
43. CCNA Cybersecurity Operations, Cisco (Trainee).
44. Software Licensing: Not Your Traditional University Dealt, AUTM, KSA.
45. How to Exploit AI in the Offensive Cybersecurity Misk, Mohammed Bin Salman Foundation, Riyadh, KSA.
46. Intro to DFIR: The Divide and Conquer Process Basis Technology, Cambridge, MA, USA.

Certifications and Trainings.

47. Develop the Programs of Applied Colleges in the Cybersecurity Workshop Ministry of Education, Riyadh, KSA.

Social, Scientific and Professional Affiliation.

1. 2012-Present, Member, IEEE.
2. 2009-Present, Member, ACM.

Excellence Awards and Patents.

1. 2010, International, Winning Project in the Second Annual Undergraduate Research Conference on Applied Computing,
2. 2018, Interior, Excellence Award for publishing scientific paper entitled; Affective and Physiological Correlates of the Perception of Unimodal and Bimodal Emotional Stimuli; in Social Science field, Deanship of Scientific Research, KAU
3. 2009, Interior, Distinguished Speaker in Healthcare IT and PACS Course

Funded Projects.

1. 2016, Reputation Management in P2P e-Commerce, KAU
2. 2018, Efficient and Secure Reputation Management in P2P e-Commerce, KAU
3. 2019, Secure Middleware for Ambient Intelligence and Smart Environments, KAU
4. 2018, Adversarial Attacks in Network Intrusion Detection Systems, KAU
5. 2021, Framework for Malware Triggering Using Steganography, KAU
6. 2021, Generating Intrusion Traffic Using Deep Learning to Reduce the Accuracy of IDSs, KAU
7. 2011, Provably Secure and Efficient Signcryption Scheme for Smart Card, KAU
8. 2018, An Online Interaction between Local and International Artists for the Promotion of Art Work: A Development of B2B Platform, KAU
9. 2018, Using B/S Model to Design and Implement Online Shopping System for Gulf Brands, KAU
10. 2008, Inferring Learning Styles for An Adaptive e-Learning Environments To Enhance Learning With Low Cost, KAU
11. 2020, A Novel Access Control Model for Smart Homes: Access Control with Continuous Monitoring Capability, Ministry of Education
12. 2020, Artificial Immune Systems approaches to secure the internet of things, Ministry of Education
13. 2013, Development of Secure Platform Independent Mobile Learning Tool in Saudi Universities, KACST
14. 2015, Coalition Formation for Collaborative Demand Side Management, KAU
15. 2014, Development of Algorithms for Cryptographic Protocols on Wireless Sensor Networks using Elliptic Curve Cryptosystem, KAU

Publications.

1. Shatha Alharbi, Daniyal Alghazzawi, Abeer Hakeem, Linda Mohaisen, Li Cheng, Afraa Attiah, "A Blockchain-Based Collaborative Intrusion Detection Systems Framework", *Ieee Internet Of Things Journal*, pp. 1-1, 2023.
DOI: [10.1109/JIOT.2023.3347492](https://doi.org/10.1109/JIOT.2023.3347492)
2. Nisha Rawindaran, Liqaa Nawaf, Suaad Alarifi, Daniyal Alghazzawi, Fiona Carroll, Iyad Katib, Chaminda Hewage, "Enhancing Cyber Security Governance And Policy For Smes In Industry 5.0: A Comparative Study Between Saudi Arabia And The United Kingdom", *Digital*, vol: 3, pp. 200-231, 2023.
DOI: [10.3390/digital3030014](https://doi.org/10.3390/digital3030014)
3. Osama Bassam J. Rabie, Shitharth Selvarajan, Daniyal Alghazzawi, Abhishek Kumar, Syed Hasan, Muhammad Zubair Asghar, "A Security Model For Smart Grid Scada Systems Using Stochastic Neural Network", *Iet Generation, Transmission & Distribution*, 2023.
DOI: [10.1049/gtd2.12943](https://doi.org/10.1049/gtd2.12943)
4. Maha Alghawazi, Daniyal Alghazzawi, Suaad Alarifi, "Deep Learning Architecture For Detecting Sql Injection Attacks Based On Rnn Autoencoder Model", *Mathematics*, vol: 11, pp. 3286, 2023.
DOI: [10.3390/math11153286](https://doi.org/10.3390/math11153286)
5. Sahar Badri, Sana Ullah Jan, Daniyal Alghazzawi, Sahar Aldhaheri, Nikolaos Pitropakis, "Biomt: A Blockchain-Enabled Healthcare Architecture For Information Security In The Internet Of Medical Things", *Computer Systems Science And Engineering*, vol: 46, pp. 3667-3684, 2023.
DOI: [10.32604/csse.2023.037531](https://doi.org/10.32604/csse.2023.037531)
6. Daniyal M. Alghazzawi, Anser Ghazal Ali Alquraishee, Sahar K. Badri, Syed Hamid Hasan, "Erf-Xgb: Ensemble Random Forest-Based Xg Boost For Accurate Prediction And Classification Of E-Commerce Product Review", *Sustainability*, vol: 15, pp. 7076, 2023.
DOI: [10.3390/su15097076](https://doi.org/10.3390/su15097076)
7. Sahar Badri, Daniyal M. Alghazzawi, Syed Humaid Hasan, Fayez Alfayez, Syed Hamid Hasan, Monawar Rahman, Surbhi Bhatia, "An Efficient And Secure Model Using Adaptive Optimal Deep Learning For Task Scheduling In Cloud Computing", *Electronics*, vol: 12, pp. 1441, 2023.
DOI: [10.3390/electronics12061441](https://doi.org/10.3390/electronics12061441)
8. Maha Sabir, Jawad Ahmad, Daniyal Alghazzawi, "A Lightweight Deep Autoencoder Scheme For Cyberattack Detection In The Internet Of Things", *Computer Systems Science And Engineering*, vol: 46, pp. 57-72, 2023.
DOI: [10.32604/csse.2023.034277](https://doi.org/10.32604/csse.2023.034277)
9. Lamia Alhoraibi, Daniyal Alghazzawi, Reemah Alhebshi, Osama Bassam J. Rabie, "Physical Layer Authentication In Wireless Networks-Based Machine Learning Approaches", *Sensors*, vol: 23, pp. 1814, 2023.
DOI: [10.3390/s23041814](https://doi.org/10.3390/s23041814)
10. Nisha Rawindaran, Liqaa Nawaf, Vibhushinie Bentotahewa, Edmond Prakash, Ambikesh Jayal, Chaminda Hewage, Daniyal Mohammed N. Alghazzawi, "Detection And Minimization Of Malware By Implementing Ai In Smes", 2022.
DOI: [10.5772/intechopen.108229](https://doi.org/10.5772/intechopen.108229)
11. Daniyal Alghazzawi, Osama Rabie, Omaima Bamasaq, Aiiad Albeshri, and Muhammad Zubair Asghar, "Sensor-Based Human Activity Recognition In Smart Homes Using Depthwise Separable Convolutions", *Human-Centric Computing And Information Sciences*, 2022.
12. Shatha Alharbi, Afraa Attiah, Daniyal Alghazzawi, "Integrating Blockchain With Artificial Intelligence To Secure Iot Networks: Future Trends", *Sustainability*, vol: 14, pp. 16002, 2022.
DOI: [10.3390/su142316002](https://doi.org/10.3390/su142316002)

Publications.

13. Suhair Alshehri, Omairah Bamasaq, Daniyal Alghazzawi, Arwa Jamjoom, "Dynamic Secure Access Control And Data Sharing Through Trusted Delegation And Revocation In A Blockchain-Enabled Cloud-Iot Environment", Ieee Internet Of Things Journal, pp. 1-1, 2022.
DOI: [10.1109/JIOT.2022.3217087](https://doi.org/10.1109/JIOT.2022.3217087)
14. Ebtihaj Alshahrani, Daniyal Alghazzawi, Reem Alotaibi, Osama Rabie, "Adversarial Attacks Against Supervised Machine Learning Based Network Intrusion Detection Systems", Plos One, vol: 17, pp. e0275971, 2022.
DOI: [10.1371/journal.pone.0275971](https://doi.org/10.1371/journal.pone.0275971)
15. Ghadeer Ashour, Ahmed Al-Dubai, Imed Romdhani, Daniyal Alghazzawi, "Ontology-Based Linked Data To Support Decision-Making Within Universities", Mathematics, vol: 10, pp. 3148, 2022.
DOI: [10.3390/math10173148](https://doi.org/10.3390/math10173148)
16. Sahar Badri, Daniyal Alghazzawi, "Security And Performance Through Operating System Services; Development Of An Anti-Hacking System", Computer And Information Science, vol: 15, pp. 66, 2022.
DOI: [10.5539/cis.v15n4p66](https://doi.org/10.5539/cis.v15n4p66)
17. Maha Alghawazi, Daniyal Alghazzawi, Suaad Alarifi, "Detection Of Sql Injection Attack Using Machine Learning Techniques: A Systematic Literature Review", Journal Of Cybersecurity And Privacy, vol: 2, pp. 764-777, 2022.
DOI: [10.3390/jcp2040039](https://doi.org/10.3390/jcp2040039)
18. Mariam K. Alharthi, Kawthar M. Moria, Daniyal M. Alghazzawi, Haythum O. Tayeb, "Epileptic Disorder Detection Of Seizures Using Eeg Signals", Sensors, vol: 22, pp. 6592, 2022.
DOI: [10.3390/s22176592](https://doi.org/10.3390/s22176592)
19. Lamia Almeahmadi, Abdullah Basuhail, Daniyal Alghazzawi, Osama Rabie, "Framework For Malware Triggering Using Steganography", Applied Sciences, vol: 12, pp. 8176, 2022.
DOI: [10.3390/app12168176](https://doi.org/10.3390/app12168176)
20. Omairah Bamasaq, Daniyal Alghazzawi, Suhair Alshehri, Arwa Jamjoom, and Muhammad Asghar, "Efficient Classification Of Hyperspectral Data Using Deep Neural Network Model", Human-Centric Computing And Information Sciences, 2022.
21. Majda Wazzan, Daniyal Alghazzawi, Aiiad Albeshri, Syed Hasan, Osama Rabie, Muhammad Zubair Asghar, "Cross Deep Learning Method For Effectively Detecting The Propagation Of Iot Botnet", Sensors, vol: 22, pp. 3895, 2022.
DOI: [10.3390/s22103895](https://doi.org/10.3390/s22103895)
22. Osama Rabie, Jawad Ahmad, Daniyal Alghazzawi, "Modified Shark Cipher And Duffing Map-Based Cryptosystem", Mathematics, vol: 10, pp. 2034, 2022.
DOI: [10.3390/math10122034](https://doi.org/10.3390/math10122034)
23. Osama Rabie, Daniyal Alghazzawi, Junaid Asghar, Furqan Khan Saddozai, Muhammad Zubair Asghar, "A Decision Support System For Diagnosing Diabetes Using Deep Neural Network", Frontiers In Public Health, vol: 10, 2022.
DOI: [10.3389/fpubh.2022.861062](https://doi.org/10.3389/fpubh.2022.861062)
24. Daniyal M. Alghazzawi, Osama Bassam J. Rabie, Surbhi Bhatia, Syed Hamid Hasan, "An Improved Optimized Model For Invisible Backdoor Attack Creation Using Steganography", Computers, Materials & Continua, vol: 72, pp. 1173-1193, 2022.
DOI: [10.32604/cmc.2022.022748](https://doi.org/10.32604/cmc.2022.022748)
25. XIAOBING CHEN, LIEHUANG ZHU, DANIYAL M. ALGHAZZAWI, ZHONGRU WANG, QING GUO, "Security Application Of Neural Networks Under The Inspection Of Nonlinear Dynamic Systems", Fractals, 2022.
DOI: [10.1142/S0218348X22400618](https://doi.org/10.1142/S0218348X22400618)

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26. Daniyal M Alghazzawi, Sahar Badri, "Using The B/S Model To Design And Implement Online Shopping System For Gulf Brands", *Sustainability*, vol: 14, pp. 3176, 2022.
DOI: [10.3390/su14063176](https://doi.org/10.3390/su14063176)
27. Daniyal Alghazzawi, Omaimah Bamasag, Aiiad Albeshri, Iqra Sana, Hayat Ullah, Muhammad Zubair Asghar, "Efficient Prediction Of Court Judgments Using An Lstm+Cnn Neural Network Model With An Optimal Feature Set", *Mathematics*, vol: 10, pp. 683, 2022.
DOI: [10.3390/math10050683](https://doi.org/10.3390/math10050683)
28. Thirumoorthy Palanisamy, Daniyal Alghazzawi, Surbhi Bhatia, Areej Abbas Malibari, Pankaj Dadheech, Sudhakar Sengan, "Improved Energy Based Multi-Sensor Object Detection In Wireless Sensor Networks", *Intelligent Automation & Soft Computing*, vol: 33, pp. 227-244, 2022.
DOI: [10.32604/iasc.2022.023692](https://doi.org/10.32604/iasc.2022.023692)
29. Omaima Bamasag, Daniyal Alghazzawi, Surbhi Bhatia, Pankaj Dadheech, Farrukh Arslan, Sudhakar Sengan, Syed Hamid Hassan, "Distance Matrix And Markov Chain Based Sensor Localization In Wsn", *Computers, Materials & Continua*, vol: 71, pp. 4051-4068, 2022.
DOI: [10.32604/cmc.2022.023634](https://doi.org/10.32604/cmc.2022.023634)
30. Kun Chen, Xinhua Wang, Daniyal M. Alghazzawi, Yanfeng Wang, "Visualized Calculation Of Regional Power Grid Power Data Based On Multiple Linear Regression Equation", *Applied Mathematics And Nonlinear Sciences*, vol: 0, 2021.
DOI: [10.2478/amns.2021.1.00054](https://doi.org/10.2478/amns.2021.1.00054)
31. Guo Zhirong, Daniyal M. Alghazzawi, "Optimal Solution Of Fractional Differential Equations In Solving The Relief Of College Students' Mental Obstacles", *Applied Mathematics And Nonlinear Sciences*, vol: 0, 2021.
DOI: [10.2478/amns.2021.1.00095](https://doi.org/10.2478/amns.2021.1.00095)
32. Xuemei An, Rui Yang, Daniyal M. Alghazzawi, Nympha Rita Joseph, "Mathematical Function Data Model Analysis And Synthesis System Based On Short-Term Human Movement", *Applied Mathematics And Nonlinear Sciences*, vol: 0, 2021.
DOI: [10.2478/amns.2021.2.00088](https://doi.org/10.2478/amns.2021.2.00088)
33. Fugen Liu, Tenghao Zhang, Daniyal M. Alghazzawi, Nympha Rita Joseph, "Optimisation Of Modelling Of Finite Element Differential Equations With Modern Art Design Theory", *Applied Mathematics And Nonlinear Sciences*, vol: 0, 2021.
DOI: [10.2478/amns.2021.2.00089](https://doi.org/10.2478/amns.2021.2.00089)
34. Ahmed Barnawi, Shubhani Aggarwal, Neeraj Kumar, Daniyal M. Alghazzawi, Bander Alzahrani, Mehrez Boulares, "Path Planning For Energy Management Of Smart Maritime Electric Vehicles: A Blockchain-Based Solution", *Ieee Transactions On Intelligent Transportation Systems*, pp. 1-14, 2021.
DOI: [10.1109/TITS.2021.3131815](https://doi.org/10.1109/TITS.2021.3131815)
35. Daniyal Alghazzawi, Omaimah Bamasag, Hayat Ullah, Muhammad Zubair Asghar, "Efficient Detection Of Ddos Attacks Using A Hybrid Deep Learning Model With Improved Feature Selection", *Applied Sciences*, vol: 11, pp. 11634, 2021.
DOI: [10.3390/app112411634](https://doi.org/10.3390/app112411634)
36. Daniyal Alghazzawi, Omaima Bamasag, Surbhi Bhatia, Ankit Kumar, Pankaj Dadheech, Aiiad Albeshri, "Congestion Control In Cognitive Iot-Based Wsn Network For Smart Agriculture", *Ieee Access*, vol: 9, pp. 151401-151420, 2021.
DOI: [10.1109/ACCESS.2021.3124791](https://doi.org/10.1109/ACCESS.2021.3124791)

Publications.

37. Daniyal Alghazzawi, Atika Qazi, Javaria Qazi, Khulla Naseer, Muhammad Zeeshan, Mohamed Elhag Mohamed Abo, Najmul Hasan, Shiza Qazi, Kiran Naz, Samrat Kumar Dey, Shuiqing Yang, "Prediction Of The Infectious Outbreak Covid-19 And Prevalence Of Anxiety: Global Evidence", *Sustainability*, vol: 13, pp. 11339, 2021.
DOI: [10.3390/su132011339](https://doi.org/10.3390/su132011339)
38. Youness Mourtaji, Mohammed Bouhorma, Daniyal Alghazzawi, Ghadah Aldabbagh, Abdullah Alghamdi, Chi-Hua Chen, "Hybrid Rule-Based Solution For Phishing Url Detection Using Convolutional Neural Network", *Wireless Communications And Mobile Computing*, vol: 2021, pp. 1-24, 2021.
DOI: [10.1155/2021/8241104](https://doi.org/10.1155/2021/8241104)
39. Daniyal M. Alghazzawi, Syed Hamid Hasan, Ghadah Aldabbagh, Mohammed Alhaddad, Areej Malibari, Muhammad Zubair Asghar, Hanan Aljuaid, "Development Of Platform Independent Mobile Learning Tool In Saudi Universities", *Sustainability*, vol: 13, pp. 5691, 2021.
DOI: [10.3390/su13105691](https://doi.org/10.3390/su13105691)
40. Areej A. Malibari, Daniyal Alghazzawi, Maha M. A. Lashin, "Coalition Formation Among The Cooperative Agents For Efficient Energy Consumption", *Sustainability*, vol: 13, pp. 8662, 2021.
DOI: [10.3390/su13158662](https://doi.org/10.3390/su13158662)
41. Alaa Omran Almagrabi, Rashid Ali, Daniyal Alghazzawi, Abdullah AlBarakati, Tahir Khurshaid, "A Reinforcement Learning-Based Framework For Crowdsourcing In Massive Health Care Internet Of Things", *Big Data*, 2021.
DOI: [10.1089/big.2021.0058](https://doi.org/10.1089/big.2021.0058)
42. Majda Wazzan, Daniyal Alghazzawi, Omaina Bamasaq, Aiiad Albeshri, Li Cheng, "Internet Of Things Botnet Detection Approaches: Analysis And Recommendations For Future Research", *Applied Sciences*, vol: 11, pp. 5713, 2021.
DOI: [10.3390/app11125713](https://doi.org/10.3390/app11125713)
43. Daniyal Alghazzawi, Ghadah Aldabbagh, Abdullah Saad AL-Malaise AL-Ghamdi, "Scaleup: Middleware For Intelligent Environments", *Peerj Computer Science*, vol: 7, pp. e545, 2021.
DOI: [10.7717/peerj-cs.545](https://doi.org/10.7717/peerj-cs.545)
44. Ghadah Aldabbagh, Daniyal M. Alghazzawi, Syed Hamid Hasan, Mohammed Alhaddad, Areej Malibari, Li Cheng, "Secure Data Exchange In M-Learning Platform Using Adaptive Tunicate Slime-Mold-Based Hybrid Optimal Elliptic Curve Cryptography", *Applied Sciences*, vol: 11, pp. 5316, 2021.
DOI: [10.3390/app11125316](https://doi.org/10.3390/app11125316)
45. Liangqin Gong, Daniyal M. Alghazzawi, Li Cheng, "Bcot Sentry: A Blockchain-Based Identity Authentication Framework For Iot Devices", *Information*, vol: 12, pp. 203, 2021.
DOI: [10.3390/info12050203](https://doi.org/10.3390/info12050203)
46. Alaa Omran Almagrabi, Rashid Ali, Daniyal Alghazzawi, Abdullah AlBarakati, Tahir Khurshaid, "Blockchain-As-A-Utility For Next-Generation Healthcare Internet Of Things", *Computers, Materials & Continua*, vol: 68, pp. 359-376, 2021.
DOI: [10.32604/cmc.2021.014753](https://doi.org/10.32604/cmc.2021.014753)
47. Hamid Masood Khan, Fazal Masud Khan, Aurangzeb Khan, Muhammad Zubair Asghar, Daniyal M. Alghazzawi, Waqas Haider Bangyal, "Anomalous Behavior Detection Framework Using Htm-Based Semantic Folding Technique", *Computational And Mathematical Methods In Medicine*, vol: 2021, pp. 1-14, 2021.
DOI: [10.1155/2021/5585238](https://doi.org/10.1155/2021/5585238)
48. Alaa Omran Almagrabi, Rashid Ali, Daniyal Alghazzawi, Abdullah AlBarakati, Tahir Khurshaid, "A Poisson Process-Based Random Access Channel For 5g And Beyond Networks", *Mathematics*, vol: 9, pp. 508, 2021.
DOI: [10.3390/math9050508](https://doi.org/10.3390/math9050508)

Publications.

49. Xianzhi Li, Qiao Yu, Bander Alzahrani, Ahmed Barnawi, Ahmed Alhindi, Daniyal Alghazzawi, Yiming Miao, "Data Fusion For Intelligent Crowd Monitoring And Management Systems: A Survey", Ieee Access, pp. 1-1, 2021.
DOI: [10.1109/ACCESS.2021.3060631](https://doi.org/10.1109/ACCESS.2021.3060631)
50. Youness Mourtaji, Mohammed Bouhorma, Daniyal Alghazzawi, "New Hybrid Framework To Detect Phishing Web Pages, Based On Rules And Variant Selection Of Features", International Journal Of Internet Technology And Secured Transactions, vol: 10, pp. 740, 2020.
DOI: [10.1504/IJITST.2020.110581](https://doi.org/10.1504/IJITST.2020.110581)
51. Muhammad Takdir Muslihi, Daniyal Alghazzawi, "Detecting Sql Injection On Web Application Using Deep Learning Techniques: A Systematic Literature Review", 2020 Third International Conference On Vocational Education And Electrical Engineering (Icvee), pp. 1-6, 2020.
DOI: [10.1109/ICVEE50212.2020.9243198](https://doi.org/10.1109/ICVEE50212.2020.9243198)
52. Ghada Aldabbagh, Daniyal M. Alghazzawi, Syed Hamid Hasan, Mohammed Alhaddad, Areej Malibari, Li Cheng, Danilo Communiello, "Optimal Learning Behavior Prediction System Based On Cognitive Style Using Adaptive Optimization-Based Neural Network", Complexity, vol: 2020, pp. 1-13, 2020.
DOI: [10.1155/2020/6097167](https://doi.org/10.1155/2020/6097167)
53. Gustavo Eduardo Constain Moreno, Ceasar A. Collazos, Habib M. Fardoun, Daniyal M. Alghazzawi, "Heuristic Evaluation For The Assessment Of Inclusive Tools In The Autism Treatment", Hci International 2020 Late Breaking Papers: Universal Access And Inclusive Design, Hci International 2020 ??? Late Breaking Papers: Universal Access And Inclusive Design, vol: 12426, pp. 34-51, 2020.
DOI: [10.1007/978-3-030-60149-2_4](https://doi.org/10.1007/978-3-030-60149-2_4)
54. Habib M. Fardoun, Daniyal M. Alghazzawi, M. Elena De la Guia, "Using Information And Communication Technologies To Enhance Patient Rehabilitation Research Techniques", Methods Of Information In Medicine, 2020.
DOI: [10.1055/s-0040-1715797](https://doi.org/10.1055/s-0040-1715797)
55. Nour Aldahwan, Daniyal Alghazzawi, "Use Of Blockchain In Public Key Infrastructure (Pki): A Systematic Literature Review", International Journal Of Computer Science And Information Security (Ijcsis), 2020.
56. Bo-Ya Ji, Zhu-Hong You, Li Cheng, Ji-Ren Zhou, Daniyal Alghazzawi, Li-Ping Li, "Predicting Mirna-Disease Association From Heterogeneous Information Network With Grarep Embedding Model", Scientific Reports, vol: 10, 2020.
DOI: [10.1038/s41598-020-63735-9](https://doi.org/10.1038/s41598-020-63735-9)
57. Bander Alzahrani, Omar Sami Oubbati, Ahmed Barnawi, Mohammed Atiquzzaman, Daniyal Alghazzawi, "Uav Assistance Paradigm: State-Of-The-Art In Applications And Challenges", Journal Of Network And Computer Applications, vol: 166, pp. 102706, 2020.
DOI: [10.1016/j.jnca.2020.102706](https://doi.org/10.1016/j.jnca.2020.102706)
58. Sahar Aldaheri, Daniyal Alghazzawi, Li Cheng, Bander Alzahrani, Abdullah Al-Barakati, "Deepdca: Novel Network-Based Detection Of Iot Attacks Using Artificial Immune System", Applied Sciences, vol: 10, pp. 1909, 2020.
DOI: [10.3390/app10061909](https://doi.org/10.3390/app10061909)
59. Sahar Aldaheri, Daniyal Alghazzawi, Li Cheng, Ahmed Barnawi, Bandar A. Alzahrani, "Artificial Immune Systems Approaches To Secure The Internet Of Things: A Systematic Review Of The Literature And Recommendations For Future Research", Journal Of Network And Computer Applications, pp. 102537, 2020.
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