

## Academic Resume



### Suhair Alshehri

Associate Professor, Information Technology Department

#### Contact Information.

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#### Highest Degree.

2014, Ph. D., Information Security, Rochester Institute of Technology, USA.

#### Academic and Professional Experiences.

1. **2023 - Present**  
Associate Professor, Jeddah, Saudi Arabia, Department of Information Technology, the Faculty of Computing and Information Technology, King Abdulaziz University.
2. **2020 - 2023**  
Head of Graduate Studies Unit, Faculty of Computing and Information Technology, King Abdulaziz University.
3. **2020 - 2022**  
Program Manager of the Executive Master in Information Technology, Faculty of Computing and Information Technology, King Abdulaziz University.
4. **2017 - 2020**  
Head of Scientific Research Unit, Faculty of Computing and Information Technology, King Abdulaziz University.
5. **2014 - 2018**  
Assistant Professor, Jeddah, Saudi Arabia, Department of Information Technology, the Faculty of Computing and Information Technology, King Abdulaziz University.
6. **2003 - 2006**  
Teaching Assistant, Jeddah, Saudi Arabia, College of Engineering, Effat University.

#### Research Interests.

Cybersecurity, Applied Cryptography, IoT, Blockchain.

#### Teaching Interests.

Security and Data Management.

#### Certifications and Trainings.

1. Certified Ethical Hacker, EC-Council.
2. KAU Scholars Program; Center for Teaching and Learning Development, King Abdulaziz University.
3. Academic Leadership Diploma; Center for Teaching and Learning Development, King Abdulaziz University.

Last Profile Update: January 01, 2024

## **Social, Scientific and Professional Affiliation.**

1. 2017-Present, Member, Hemaya.
2. 2009-Present, Member, IEEE.

## **Funded Projects.**

1. 2019, A Distributed Blockchain-Based Access Control for The Internet of Things, King Abdulaziz University
2. 2020, Credit Card Fraud Detection using Behavioral Biometrics and Deep Learning, Institutional Fund Projects - Ministry of Education,
3. 2019, Mitigating DoS Attack in Device-to-Device Continuous Authentication for IoT, King Abdulaziz University
4. 2020, Distributed Fog-based Access Control Architecture for IoT in Healthcare, King Abdulaziz University
5. 2020, A Real-Time Monitoring based Botnet (RT-MoB) Detector for a Cloud Environment, Institutional Fund Projects - Ministry of Education

## Publications.

1. Basmah Al-Zahrani, Suhair Alshehri, Asma Cherif, Abdessamad Imine, "Property Graph Access Control Using View-Based And Query-Rewriting Approaches", 2022 Ieee/Acs 19th International Conference On Computer Systems And Applications (Aiccsa), pp. 1-2, 2022.  
DOI: [10.1109/AICCSA56895.2022.10017709](https://doi.org/10.1109/AICCSA56895.2022.10017709)
2. Asma Cherif, Suhair Alshehri, Manal Kalkatawi, Abdessamad Imine, "Towards An Intelligent Adaptive Security Framework For Preventing And Detecting Credit Card Fraud", 2022 Ieee/Acs 19th International Conference On Computer Systems And Applications (Aiccsa), pp. 1-8, 2022.  
DOI: [10.1109/AICCSA56895.2022.10017814](https://doi.org/10.1109/AICCSA56895.2022.10017814)
3. Asma Cherif, Suhair Alshehri, Manal Kalkatawi, Abdessamad Imine, "Credit Card Fraud Detection In The Era Of Disruptive Technologies: A Systematic Review", 19 Th International Acs/Ieee International Conference On Computer Systems And Applications Aicssa 2022, 2022.
4. Omaimah Bamasag, Daniyal Alghazzawi, Suhair Alshehri, Arwa Jamjoom, Muhammad Zubair Asghar, Abdu Gumaei, "Efficient Classification Of Hyperspectral Data Using Deep Neural Network Model", Human-Centric Computing And Information Sciences, 2022.
5. Bayan Hashr Saeed Alamri, Muhammad Mostafa Monowar, Suhair Alshehri, "Privacy-Preserving Trust-Aware Group-Based Framework In Mobile Crowdsensing", Ieee Access, vol: 10, pp. 134770-134784, 2022.  
DOI: [10.1109/ACCESS.2022.3232401](https://doi.org/10.1109/ACCESS.2022.3232401)
6. Asma Cherif, Arwa Badhib, Heyfa Ammar, Suhair Alshehri, Manal Kalkatawi, Abdessamad Imine, "Credit Card Fraud Detection In The Era Of Disruptive Technologies: A Systematic Review", Journal Of King Saud University - Computer And Information Sciences, 2022.  
DOI: [10.1016/j.jksuci.2022.11.008](https://doi.org/10.1016/j.jksuci.2022.11.008)
7. Suhair Alshehri, Omaimah Bamasag, 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)
8. Suhair Alshehri, Omaimah Bamasag, "Aac-Iot: Attribute Access Control Scheme For Iot Using Lightweight Cryptography And Hyperledger Fabric Blockchain", Applied Sciences, 2022.
9. Bayan H. Alamri, M.M. Monowar, Suhair Alshehri, Haseeb Zafar, Iftikhar Ahmad, "Preserving Privacy In Mobile Crowdsensing", International Journal Of Sensor Networks, vol: 1, pp. 1, 2022.  
DOI: [10.1504/IJSNET.2022.10048935](https://doi.org/10.1504/IJSNET.2022.10048935)
10. Omaimah Bamasag, Alaa Alsaeedi, Asmaa Munshi, Daniyal Alghazzawi, Suhair Alshehri, Arwa Jamjoom, "Real-Time Ddos Flood Attack Monitoring And Detection (Rt-Amd) Model For Cloud Computing", Peerj Computer Science, vol: 7, pp. e814, 2022.  
DOI: [10.7717/peerj-cs.814](https://doi.org/10.7717/peerj-cs.814)
11. Suhair Alshehri, Tahani Almeahmadi, "A Secure Fog-Cloud Architecture Using Attribute-Based Encryption For The Medical Internet Of Things (Miot)", International Journal Of Advanced Computer Science And Applications, vol: 12, 2021.  
DOI: [10.14569/IJACSA.2021.01212112](https://doi.org/10.14569/IJACSA.2021.01212112)
12. Seham Alnefaie, Asma Cherif, Suhair Alshehri, "A Distributed Fog-Based Access Control Architecture For Iot", Ksii Transactions On Internet And Information Systems, vol: 15, 2021.  
DOI: [10.3837/tiis.2021.12.016](https://doi.org/10.3837/tiis.2021.12.016)
13. Ebtihal Abdulrahman, Suhair Alshehri, and Asma Cherif, "Blockchain-Based Access Control For The Internet Of Things: A Survey", The Asia-Pacific Conference On Computer Science And Data Engineering, 2021.

## **Publications.**

14. Arwa Badhib, Asma Cherif, Suhair Alshehri, "An Overview Of Continuous Device-To-Device Authentication Techniques For The Internet Of Things", International Journal Of Ad Hoc And Ubiquitous Computing, vol: 36, pp. 189, 2021.  
DOI: [10.1504/IJAHUC.2021.114103](https://doi.org/10.1504/IJAHUC.2021.114103)
15. Arwa Badhib, Suhair Alshehri, Asma Cherif, "A Robust Device-To-Device Continuous Authentication Protocol For The Internet Of Things", Ieee Access, pp. 1-1, 2021.  
DOI: [10.1109/ACCESS.2021.3110707](https://doi.org/10.1109/ACCESS.2021.3110707)
16. Seham Alnefaie, Suhair Alshehri, Asma Cherif, "A Survey On Access Control In Iot: Models, Architectures And Research Opportunities", International Journal Of Security And Networks, vol: 16, pp. 60, 2021.  
DOI: [10.1504/IJSN.2021.112837](https://doi.org/10.1504/IJSN.2021.112837)
17. Afrah Albalawi, Amal Almrshed, Arwa Badhib, Suhair Alshehri, "A Survey On Authentication Techniques For The Internet Of Things", 2019 International Conference On Computer And Information Sciences (Iccis), pp. 1-5, 2019.  
DOI: [10.1109/ICCISci.2019.8716401](https://doi.org/10.1109/ICCISci.2019.8716401)
18. Seham Alnefaie, Asma Cherif, Suhair Alshehri, "Towards A Distributed Access Control Model For Iot In Healthcare", 2019 2nd International Conference On Computer Applications & Information Security (Iccais), pp. 1-6, 2019.  
DOI: [10.1109/CAIS.2019.8769462](https://doi.org/10.1109/CAIS.2019.8769462)
19. Tahani Almeahmadi, Suhair Alshehri, Sabeen Tahir, "A Secure Fog-Cloud Based Architecture For Miot", 2019 2nd International Conference On Computer Applications & Information Security (Iccais), pp. 1-6, 2019.  
DOI: [10.1109/CAIS.2019.8769524](https://doi.org/10.1109/CAIS.2019.8769524)
20. Areej Alzaidi, Suhair Alshehri, Seyed M. Buhari, "Droidrista: A Highly Precise Static Data Flow Analysis Framework For Android Applications", International Journal Of Information Security, 2019.  
DOI: [10.1007/s10207-019-00471-w](https://doi.org/10.1007/s10207-019-00471-w)
21. Arwa Bashanfar, Eman Al-Zahrani, Maram Alutebei, Wejdan Aljagthami, Suhair Alshehri, "A Survey On Location Privacy-Preserving Mechanisms In Mobile Crowdsourcing", International Journal Of Advanced Computer Science And Applications, vol: 10, 2019.  
DOI: [10.14569/IJACSA.2019.0100782](https://doi.org/10.14569/IJACSA.2019.0100782)
22. Bayan Hashr Alamri, Muhammad Mostafa Monowar, Suhair Alshehri, "An Effective Privacy-Preserving Reputation Scheme For Mobile Crowdsensing", Emerging Technologies In Data Mining And Information Security, Emerging Technologies In Data Mining And Information Security, vol: 814, pp. 687-698, 2018.  
DOI: [10.1007/978-981-13-1501-5\\_61](https://doi.org/10.1007/978-981-13-1501-5_61)
23. Bayan Hashr Alamri, Muhammad Mostafa Monowar, Suhair Alshehri, "A Privacy-Preserving Collaborative Reputation System For Mobile Crowdsensing", International Journal Of Distributed Sensor Networks, vol: 14, pp. 155014771880218, 2018.  
DOI: [10.1177/1550147718802189](https://doi.org/10.1177/1550147718802189)
24. Suhair Alshehri, Sumita Mishra, Rajendra K. Raj, "Using Access Control To Mitigate Insider Threats To Healthcare Systems", 2016 Ieee International Conference On Healthcare Informatics (Ichi), pp. 55-60, 2016.  
DOI: [10.1109/ICHI.2016.11](https://doi.org/10.1109/ICHI.2016.11)
25. Suhair Alshehri, Rajendra K. Raj, "Secure Access Control For Health Information Sharing Systems", 2013 Ieee International Conference On Healthcare Informatics (Ichi), pp. 277-286, 2013.  
DOI: [10.1109/ICHI.2013.40](https://doi.org/10.1109/ICHI.2013.40)

## **Publications.**

26. Suhair Alshehri, Stanislaw P. Radziszowski, Rajendra K. Raj, "Secure Access For Healthcare Data In The Cloud Using Ciphertext-Policy Attribute-Based Encryption", 2012 Ieee International Conference On Data Engineering Workshops (Icdew), pp. 143-146, 2012.  
DOI: [10.1109/ICDEW.2012.68](https://doi.org/10.1109/ICDEW.2012.68)