

ARIJ ALFAIDI

Ar_alfaidi@ut.edu.sa | ☎ 0532940484

University of Tabuk, Duba – Tabuk, Saudi Arabia

RESEARCH INTEREST

- Artificial Intelligence AI
- Hash functions.
- Blockchain
- Cybersecurity
- Trap doors

EDUCATION

- Ph.D. in Engineering and Computer Science, 2022, University of Colorado at Colorado Springs , United State of America USA.
- Master's degree of Science in Computer science , 2016, University of Colorado at Colorado Springs , United State of America USA.
- Bachelor's degree of Computer Science, King Saud University KSU, 2010, Riyadh, Saudi Arabia

EMPLOYMENT

Assistant professor | University of Tabuk UT - Tabuk, Saudi Arabia

HISTORY

2022 – Present

- Head of Computer Science department in University of Tabuk Duba college branch.

- Program Coordinator for Computer Ethics program.
- Quality assurance in Computer Science department in University of Tabuk Duba college branch.

Technical Program Committee TPC

- IEEE ICC 2021 Workshop on Communication, Computing, and Networking in Cyber-Physical Systems will be held in conjunction with the IEEE International Conference on Communications (ICC) 2021.
- IEEE BDS International Conference on Big Data Computing Service and Machine Learning Applications, 2022

Teacher Assistant | University of Colorado at Colorado Springs – Colorado – USA

2021 – 2022

- Graphics and design subjects
- Computer algorithms
- Security

IT Technician | Saudi American Bank SAMBA - Riyadh, Riyadh 07/2011 - 10/2012

- Configured hardware, devices and software to set up workstations for employees.
- Removed and replaced malfunctioning components to correct hardware problems.
- Collaborated with vendors to locate replacement components and resolve advanced problems.

- Explained technical information in clear terms to non-technical individuals to promote better understanding.
- Helped streamline repair processes and update procedures for support action consistency.
- Assessed system hardware and software and suggested modifications to reduce lag time and improve overall speed.
- Documented all transactions and support interactions in system for future reference and addition to knowledge base.

PARTICIPATION AND COMMUNITY

- Artificial Intelligence AI student education community in Duba college at University of Tabuk UT 2025
- Prince Mohammed bin Salman Charity Foundation MISK certifications in Leaderships strategy , 2021 , 2022
- Women in Cybersecurity committee member for University of Colorado at Colorado Springs UCCS , 2021

PUBLICATIONS

1. Alfaidi, Arij, and Edward Chow. "Health Record Chain (HRC): Implementation of Mobile Healthcare system using Blockchain to enhance Privacy of Electronic Health Record EHR." 2020 International Conference on Computational Science and Computational Intelligence (CSCI). IEEE, 2020
2. Alfaidi, Arij, and Edward Chow. "Saving Electronic Health Record (EHR) in private and secure mHealth system with blockchain Smart contracts." International Conference on Advanced Information Networking and Applications. Springer, Cham, 2021
3. Alfaidi, Arij, and Edward Chow. "Is Artificial Intelligence Creating an Artificial Sense of Cybersecurity?." Proceedings on the International Conference on Artificial Intelligence (ICAI). The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp), 2019

4. Alfaidi, Arij, and Edward Chow. "Redactable Blockchain in Mobile Healthcare System. The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp), 2019
5. Alfaidi, Arij. "Survey about the Accuracy of Wearable devices as Heart Rate Monitor, Fitness Tracker and Sleep Assessment." The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp), 2019
6. Alfaidi, Arij, and Sudhanshu Semwal. "Privacy Issues in mHealth Systems Using Blockchain." *Future of Information and Communication Conference*. Springer, Cham, 2022
7. Alfaidi, Arij, and Sudhanshu Semwal. "The Right to Be Forgotten: Privacy and Security in Blockchain with Multi-authority Based Chameleon Hash Function MAP-ABCH Solution." *Future of Information and Communication Conference*. Springer, Cham, 2022
8. Semwal, Sudhanshu, and Arij Alfaidi. "Blockchain Graphs (BCGs) to Support Right-To-Be-Forgotten "RTBF" in Blockchains." *Future of Information and Communication Conference*. Springer, Cham, 2022
9. Arij Alfaidi, Sudhanshu Semwal "Analyzing security protocol for Multi based Authority Pairing in Attribute Based Chameleon Hash Function" Future Technology Conference FTC , Vancouver, Canada, 2022
10. Rezgui, A., Nasraoui, B., Alfaidi, A., & Talbi, M. (2024, December). A New ECG Denoising Technique based on WATV and Convex Fused-Lasso. In *2024 25th International Arab Conference on Information Technology (ACIT)* (pp. 1-6). IEEE.
11. Talbi, Mourad, Brahim Nasraoui, and Arij Alfaidi. "2-D Stationary Wavelet Transform and 2-D Dual-Tree DWT for MRI Denoising ".*Current Medical Imaging* :(2025) 21.1 E1573405636576
12. Nasir, M., et al. "Machine learning-assisted modeling of mixed convection in tangent hyperbolic nanofluid with non-Fourier and non-Fickian transport." *International Communications in Heat and Mass Transfer* 169 (2025): 109709.
13. A Blockchain-Integrated Framework for Secure and Efficient Container Release in the Smart Port of NEOM, Saudi Arabi
A Blockchain-Integrated Framework for Secure and Efficient Container Release in the Smart Port of NEOM, Saudi Arabi

Teaching experience

- Database system
- Computer organization and assembly language
- Artificial intelligent.
- Java programming 1
- Computer ethics
- Graduation projects 1 and 2
- Introduction to programming.
- Problem solving using computing.
- Special topics in Computer science.
- Data structure and algorithms.