King Saud University
College of Computer and Information Sciences
Department of Information Technology

1. **Name: Aljawharah Alnasser**
2. **Education:**

   Bachelor in Information Technology

   30/06/2010 from King Saud University, Riyadh, KSA.

   Master of Computer Engineering – Networking

   20/02/2015 from King Saud University , Riyadh, KSA.

   PhD in Computer Science – Communication Networks

   30/03/2020 from Durham University , Durham, UK.

3. **Academic experience – institution, rank, title (chair, coordinator, etc. if appropriate), when (ex. 1990-1995), full time or part time**

   - Teaching Assistant at Information Technology Dep. – King Saud University. (2011-2015). FT
   - Assistant Professor at Information Technology Dep. – King Saud University. (2020-Now). FT

4. **Non-academic experience – company or entity, title, brief description of position, when (ex. 1993-1999), full time or part time** NA
5. **Certifications or professional registrations** NA
6. **Current membership in professional organizations.** NA
7. **Honors and awards**

   Received King Saud University Scientific Excellence Prize 2018: Student Research Excellence Award.

8. **Service activities (within and outside of the institution)**

9. Publications (list selected publications)

- A.Alnasser; N.E. Rikli, “Design of a trust security model for smart meters in an urban power grid network”, the 10th ACM symposium on QoS and security for wireless and mobile networks, Montreal, Sept/2014, pages. 105-108.
- A. Alnasser and N. E. Rikli, “New trust-based detection model for concealed malicious nodes in a wireless sensor network,” in Proceedings of the IEEE ICC 2015 - First Workshop on Security and Privacy for Internet of Things and Cyber-Physical Systems, 2015, pp. 10 359–10 364.
- Rikli, N.E. and Alnasser, A., 2016. Lightweight trust model for the detection of concealed malicious nodes in sparse wireless ad hoc networks. *International Journal of Distributed Sensor Networks*, *12*(7), p.1550147716657246.
- Alnasser, A., & Sun, H. (2017). A fuzzy logic trust model for secure routing in smart grid networks. *IEEE access*, *5*, 17896-17903.
- A. Alnasser, H. Sun, "Performance Analysis of Behavior-based Solutions in Vehicular Networks," *in Proceedings of the INFOCOM 2018 - IEEE International Conference on Computer Communications*, Honolulu, USA, IEEE, 2018, 1-5.
- Alnasser, A., Sun, H., & Jiang, J. (2019). Cyber security challenges and solutions for V2X communications: A survey. *Computer Networks*, *151*, 52-67.
- A. Alnasser, H. Sun and J. Jiang, "Recommendation-Based Trust Model for Vehicle-to-Everything (V2X)," in *IEEE Internet of Things Journal*, vol. 7, no. 1, pp. 440-450, Jan. 2020.
- A. Alnasser, H. Sun and J. Jiang, "Multi-Metric QoS-Balancing Relay Selection Algorithm in V2X Communications," *2019 IEEE Globecom Workshops (GC Wkshps)*, Waikoloa, HI, USA, 2019, pp. 1-6.
- Alnasser, Aljawharah & Sun, Hongjian (2019), Global Roaming Trust-based Model for V2X Communications, INFOCOM 2019 Workshops: The Third IEEE International Workshop on the Security, Privacy, and Digital Forensics of Mobile Systems and Networks (MobiSec 2019). Paris France, IEEE.
- A. Alnasser, H. Sun and J. Jiang, "QoS-Balancing Algorithm for Optimal Relay Selection in Heterogeneous Vehicular Networks", in *IEEE Transactions on Intelligent Transportation Systems*, doi: 10.1109/TITS.2021.3076901
- A. Alnasser and H. Sun, "Trust-based Model for Securing Vehicular Networks Against RSU Attacks," IEEE INFOCOM 2021 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), 2021, pp. 1-6, doi: 10.1109/INFOCOMWKSHPS51825.2021.9484458.