



**Bio:** **Saleem Alsaraireh** is a dedicated Ph.D. candidate in Computer Science at Princess Sumaya University for Technology (PSUT), Jordan, where he has been pursuing advanced research since 2021. With a strong academic foundation, he earned his Bachelor of Science in Computer Information Systems with excellent honors (First in Class) from Mutah University (Military Wing) (2005–2009) and later achieved a Master of Science in Computer Science with excellent standing from Mu'tah University (2015–2017). A professional with 17+ years of experience, Saleem serves as an officer in the Jordan Armed Forces (**JAF**), specializing in communications and technical support. Currently holding the rank of Lieutenant Colonel, he contributes his expertise at the Naser Bin Jameel College for Military Communications, where he plays a key role in advancing military communications technology and training. His academic pursuits and military career reflect a deep commitment to technology, leadership, and innovation, positioning him as a valuable contributor to both academia and defense communications.

#### **Published Papers:**

Alnabhan, M., **Alsaraireh, S.**, Pattanayak, B. K., Habboush, A. K., & Hammad, M. (2019). Performance analysis and enhancement of position-based routing protocols in MANETS. *International Journal of Knowledge-based and Intelligent Engineering Systems*, 23(2), 109-120.

**Alsaraireh, S.**, Ahmad, A., AbuHour, Y.: New step in lightweight medical image encryption and authenticity. *Mathematics* 1(0) (2025) <https://doi.org/https://doi.org/>

**Alsaraireh, S.**, Qusef, A., Abu Al-Haija, Q., & Al Shaggah, L. (2025). Code smell detection using ML techniques leveraging GANs as oversampling method. In Intelligent Computing (Vol. X, pp. xx–xx). Springer Nature Switzerland AG. <https://doi.org/xxxxx>

### **Submitted Papers (2024–2025)**

Chaos-Driven Lightweight Cryptography: A Fusion of Chaotic Maps and Inter-Block Encryption (**First Author** | **Journal** )

Lightweight and Hybrid Image Encryption Approach: Dynamic Anchor Blocks Selection (**First Author** | **Journal**)

Intrusion Detection Using Machine Learning with a Novel Elbow Method Feature Selection (**First Author** | **Journal**)

### **Research Contributions to Submit (2025):**

**First Author:** *Paper-Folding-Crypto: A Lightweight Hybrid Encryption Framework for Medical IoT Image Security* (Novel Approach, 2025).

**First Author:** *Dynamic Post-Quantum Paper-Folding-Crypto: An Extended Lightweight Framework for Medical IoT Security* (2025).

Second Author: *“Wrapper-based Feature Selection over Clustered Features for High-Dimensional Datasets”*.

Second Author: *“Routing and Broadcasting Algorithms for the Diamond Hypercube Interconnection Network”*.

### **Research Interests**

- ❖ Cybersecurity & Cryptography: Lightweight encryption, image security, post-quantum cryptography.
- ❖ AI in Cybersecurity: Adversarial machine learning, intrusion detection.
- ❖ IoT & Networks Security

### **Projects & Research Groups:**

- ❖ CyberHubJo (PSUT PhD-led cybersecurity research group).
- ❖ Jordan Armed Forces (JAF) – Military-Cryptography Team.

### **Contact**

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