**Name: Sawsan Alodibat**

**Bio: Sawsan Alodibat** is a Ph.D. candidate in the Computer Science Department at Princess Sumaya University for Technology (PSUT) in Jordan, where she began her doctoral studies in 2021. She earned her B.Sc. in Computer Information Systems with an excellent degree from Yarmouk University, where she graduated as the top of her class from 2009 to 2013. She then obtained her M.Sc. in Computer Science from Jordan University of Science and Technology (JUST) with an excellent academic record between 2016 and 2019. Her professional journey includes one year of experience in technical support at Jordan Education Initiative (JEI), followed by five years as a research assistant (RA). She has also served as a teaching assistant (TA) for three years at JUST and currently holds a TA position at PSUT, where she has been contributing for another three years.

## Published papers:

**Alodibat, S.**, & Alkasasbeh, M. (2025). An enhanced model of DDoS attacks detection using one-hot encoding of feature's categories. In *2025 International Conference on New Trends in Computing Sciences (ICTCS)*. Amman, Jordan. IEEE.

Khalil, A., **Alodibat, S.**, & Al-Madi, N. (2025). Fine-tuning fake review detection models with genetic algorithms. In *2025 International Conference on New Trends in Computing Sciences (ICTCS)* (pp. 176–183). Amman, Jordan. IEEE.

Ghnemat, R., **Alodibat, S.**, & Abu Al-Haija, Q. (2023). Explainable artificial intelligence (XAI) for deep learning-based medical imaging classification. *Journal of Imaging, 9*(9), 177. https://doi.org/10.3390/jimaging9090177

**Alodibat, S.**, Ahmad, A., & Azzeh, M. (2023). Explainable machine learning-based cybersecurity detection using LIME and SecML. In *2023 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT)* (pp. 235–242). IEEE.

Najadat, H., Al-Badarneh, A., & **Alodibat, S**. (2021). A review of website evaluation using web diagnostic tools and data envelopment analysis. *Bulletin of Electrical Engineering and Informatics, 10*(1), 258–265.

**Alodibat, S.**, & Al-Shraida, E. (2020). *A comparison of most recent MapReduce joins algorithms*. Retrieved from https://www.researchgate.net/publication/343098176_A_comparison_of_most_recent_MapReduce_joins_algorithms

Shatnawi, M., Bani Yassein, M., Aljawarneh, S., **Alodibat, S.**, Meqdadi, O., Hmeidi, I., & Al Zoubi, O. (2020). An improvement of neural network algorithm for anomaly intrusion detection system. *International Journal on Communications Antenna and Propagation (IRECAP), 10*(2), 84–93.

Najadat, H., Badarneh, A., & **Alodibat, S.** (2019). A hybrid model of ensemble method and data envelopment analysis (DEA) for e-government websites efficiency evaluation. In *2019 International Arab Conference on Information Technology (ACIT)* (pp. 182–187). IEEE.

**AlOdibat, S.**, & Al-Sayyah, Y. (2018). A Proposed Sequence-to-Sequence Modeling for Arabic Dialect Machine Translation Dialect Arabic (DA) to English Translator. *Aim & Scope*, 1.

Sayaheen, Y., & **Alodibat, S.** (2018). Arabic text images watermarking: A survey of current techniques. *Aim & Scope*, *1*.

**Alodibat, S.**, & Jordan, I. (2017). An overview of the visualization features in open source data mining tools. *Middle East Comprehensive Journal of Education and Science Publications (MECSJ 2017)*, (1), 1-36.

Yassein, M. B., Aljawarneh, S., & **Alodibat, S.** (2017). A mathematical model of integrated cloud computing and WSNs for emergency systems. In *2017 International Conference on Engineering & MIS (ICEMIS)* (pp. 1–12). IEEE.

## Accepted, not yet published papers:

**Alodibat, S.** Azzeh, M. (2025). Systematic Review on Code Smell Detection Approaches in Open Source Projects" for publication in Software: Practice and Experience.

## Submitted papers:

| Paper Title | Authors | Venue |
|---|---|---|
| An Extended Generic Learned Indexing (IGLIN) Mechanism for Complex Geometries | Prof. Amer Albadarneh<br>Sawsan Alodibat | Journal |

## Research Interests:

- Deep Learning
- Cryptography
- Machine Learning
- Image Processing
- Software Engineering
- Web Development
- Network Security.

## Important Links:

**LinkedIn:** https://jo.linkedin.com/in/sawsan-alodibat-b97a08a3

**Google Scholar:** https://scholar.google.com/citations?hl=en&user=J8cyv_4AAAAJ

**Research Gate:** https://www.researchgate.net/profile/Sawsan-Alodibat