



**Name:** Ashwaq Khalil

**Bio:** **Ashwaq Khalil** is an artificial intelligence specialist and a PhD candidate in computer science at Princess Sumaya University for Technology (PSUT). She holds her M.S. in computer science from the Jordan University of Science and Technology (JUST) and a Bachelor's degree in Computer Science from the Al-Balqaa Applied University. She worked as a research assistant at Jordan University of Science and Technology. Currently, her research interest is focused on artificial intelligence, computer graphics, and computer vision.

**Published Papers:**

- A. Khalil, S. Alodibat and N. Al-Madi, "Fine-Tuning Fake Review Detection Models with Genetic Algorithms," 2025 International Conference on New Trends in Computing Sciences (ICTCS), Amman, Jordan, 2025, pp. 176-183.
- M. Alkasassbeh, A. Khalil and M. Almseidin, "Self-Adaptive Moving Target Defense with Cyberdeception for Proactive Defense of IoT Networks," 2025 International Conference on New Trends in Computing Sciences (ICTCS), Amman, Jordan, 2025, pp. 119-126.
- Khalil, A., Jarrah, M., & Aldwairi, M. (2024). Hybrid neural network models for detecting fake news articles. *Human-Centric Intelligent Systems*, 4(1), 136-146.
- Alslman, Y., Khalil, A., Younisse, R., Alnagi, E., Al-Saraireh, J., & Ghnemmat, R. (2024). DDOS ATTACK-DETECTION APPROACH BASED ON ENSEMBLE MODELS USING SPARK. *Jordanian Journal of Computers & Information Technology*, 10(2).
- Khalil, A., Younisse, R., Ahmad, A., & Azzeh, M. (2023, May). Homomorphic Encryption Schemes Using Nested Matrices. In *International Conference on Information, Communication and Computing Technology* (pp. 169-181). Cham: Springer Nature Switzerland.
- Ghnemmat, R., Khalil, A., & Abu Al-Haija, Q. (2023). Ischemic stroke lesion segmentation using mutation model and generative adversarial network. *Electronics*, 12(3), 590.
- Khalil, A., Jarrah, M., Aldwairi, M., & Jaradat, M. (2022). AFND: Arabic fake news dataset for the detection and classification of articles credibility. *Data in Brief*, 42, 108141.

- Khalil, A., Jarrah, M., Al-Ayyoub, M., & Jararweh, Y. (2021). Text detection and script identification in natural scene images using deep learning. Computers & Electrical Engineering, 91, 107043.
- Khalil, A., Jarrah, M., Aldwairi, M., & Jararweh, Y. (2021, November). Detecting arabic fake news using machine learning. In 2021 second international conference on intelligent data science technologies and applications (IDSTA) (pp. 171-177). IEEE.
- Alaiad, A., Najadat, H., Al-Mnayyis, N., & Khalil, A. (2018, November). Associative classification of the jordanian hospitals efficiency based on DEA. In 2018 IEEE Conference on Big Data and Analytics (ICBDA) (pp. 23-26). IEEE.
- Yassein, M. B., Mardini, W., & Khalil, A. (2016, September). Smart homes automation using Z-wave protocol. In 2016 International Conference on Engineering & MIS (ICEMIS) (pp. 1-6). IEEE.

#### **Unpublished Papers Yet:**

- Paper #1
  - Paper title: Low-Light Video Enhancement using Deep Learning
  - Authors: Ashwaq Khalil and Ashraf Ahmed
- Paper #2
  - Paper title: Survey of the Effort-Aware Performance Metrics and Effort-aware Defect Prediction Models
  - Authors: Ashwaq Khalil, Alaa Altarazi, Mohammad Azzeh
- Paper #3
  - Paper title: On Optimal Lean Thinking-Enabled Outpatient Capacity Planning
  - Authors: Mohammad J. Abdel-Rahman, Ashwaq Khalil, Dania Refai
- Paper #4
  - Paper title: A Comparative Study of Defense Mechanisms Against Adversarial Attacks in Machine Learning Models
  - Authors: Moath Jarrah, Ashwaq Khalil, Monther Aldwairi
- Paper #5
  - Paper title: Routing and broadcasting algorithms for diamond hypercube interconnection network
  - Authors: AbedlRahman Almodawar , Saleem Alsaraireh, Ashwaq Khalil, Osama Al-Haj Hassan, Basel A. Mahafzah

#### **Current Research Interests:**

- Artificial intelligence
- Computer graphics
- Computer vision

#### **Activities:**

- Review submitted paper in Cluster Computing (CLUBS) - SpringerLink at 2021
- Speaker in the International Conference on Information at 2023
- Speaker and volunteering for the organization committee in ICTCS 2025

**Important Links:**

- Google scholar: <https://scholar.google.com/citations?user=c9n1MXIAAAAJ&hl=en&oi=ao>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57192269376>
- LinkedIn: <https://www.linkedin.com/in/ashwaq-khalil-338309188/>
- Research Gate: <https://www.researchgate.net/profile/Ashwaq-Khalil-2/research>
- Email: [ash20219002@std.psut.edu.jo](mailto:ash20219002@std.psut.edu.jo)