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• I have been working at Al-Kitab University, Kirkuk, Iraq since November 2024 as an External academic instructor and I am still working there. I hold a PhD degree in Mechanical Engineering.

Research areas and most important published research Link to Scopus

<https://www.scopus.com/authid/detail.uri?authorId=57203690249>

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Link to Publons:

Link Academia:

Link to google scholar:

<https://scholar.google.com/citations?user=AKtozPgAAA&hl=en>

Published research links:

- ✓ **Explainable AI for Visual Inspection: A Comparative Analysis and Review.** Albydhany, M. H., Al-Darraji, I., J. Vis. Exp. (224), e69440, doi:10.3791/69440 (2025).
- ✓ **Integrating drones with digital twins for aerial remote sensing.** Al-Darraji, I., Khan, F. Q., Salim, T. T., Tsaramirsis, G., Jerbi, H., Kakei, A. A., & Ismaeel, A. G. (2025). Radio Science, 60, e2023RS007700. <https://doi.org/10.1029/2023RS007700>.
- ✓ **Improving Barcode Vision Scanning Process using a Drone-based Tracking PID Controller for Warehouse in Industry 4.0.** (2025). Al-Khwarizmi Engineering Journal, 21(2), 72-92. <https://doi.org/10.22153/kej.2025.11.002>

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- ✓ **Warehouse In Industry 4.0 Based Drone, Computer Vision, And Artificial Intelligence Technologies: A Literature Review.** (2025), PES journal, Samer Al-hamadani, Izzat Al-Darraj, <https://doi.org/10.24874/PES07.01D.008>
- ✓ **Defect Detection Using Thermography Camera Techniques: A review.** (2024). Al-Khwarizmi Engineering Journal, 20(4), 70-88. <https://doi.org/10.22153/kej.2024.03.002>.
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- ✓ **"On-Board Digital Twin Based on Impedance and Model Predictive Control for Aerial Robot Grasping"**, Ayman Qahmash, Izzat Al-Darraj, Adil O. Khadidos, Georgios Tsaramirsis, Alaa O. Khadidos, Mohammed Alghamdi,



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