



Name: Eng. Khaled Abu Jbara

Rank: Senior Instructor - Electrical & Electronics Engineering

Personal Information

Nationality:	Jordanian
AU Joining Date:	30 Jan 2022
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Professional Information

Education:	MSc, Electrical & Computer Engineering -KAUST: King Abdullah University of Science & Technology, KSA -Thesis Title: Real-time Sensor Fusion for Runway Detection and Tracking BSc, Electrical Engineering -Kuwait University, Kuwait - 2010/2011 - Ranked 1st
Specialization:	Artificial Intelligence / Machine Learning Advanced Visual Computing / Autonomous Systems
Current Academic Position:	Senior Instructor - Electrical & Electronics Engineering
Current Professional Positions:	
Previous Administrative Position Held:	Administrative Supervisor/Engineer -EE department, Kuwait University
Previous Academic Positions Held:	Instructor - Electrical & Electronics Engineering, AU Research Assistant -Visual Computing Center, KAUST
Fellowships And Honors:	- KAUST Fellowship for Graduate Studies - Kuwait University Scholarship for BSc Studies - Best Employee Award at the EE Department, Kuwait University - Ranked 1st Honored BSc Student Award x4, Kuwait University
Teaching Experience:	Senior Instructor -Australian University Teacher Assistant

	-Kuwait University
Industrial And Technical Experience:	Research Assistant - Visual Computing Center - KAUST Product manager / R&D Engineer - KAUST Research Park R&D Engineer - Saudi ARAMCO Oil Company, Dhahran, KSA
Research Interest:	Artificial Intelligence: - Generative AI - Machine Learning - Deep Learning - Computer Vision - Computational Imaging - Image processing - Robotics – Data Science
Research Grants:	
Research and Publications including Journal and Books:	Abu-Jbara K, Sundaramorthi G, Claudel C, "Fusing Vision and Inertial Sensors for Robust Runway Detection and Tracking," 2018 Journal of Guidance, Control, and Dynamics (JCGD), 2018, 41: pp. 1929–1946, doi: 10.2514/1.G002898. Abu Jbara, K. F. (2015). A Robust Vision-based Runway Detection and Tracking Algorithm for Automatic UAV Landing. KAUST Research Repository, Thesis, doi: 10.25781/KAUST-CR45R.
Paper Presentations at Professional Conferences:	K. Abujbara, R. Idoughi and W. Heidrich, "Non-Linear Anisotropic Diffusion for Memory-Efficient Computed Tomography Super-Resolution Reconstruction," 2021 International Conference on 3D Vision (3DV), 2021, pp. 175-185, doi: 10.1109/3DV53792.2021.00028. K. Abu-Jbara, W. Alheadary, G. Sundaramorthi and C. Claudel, "A robust vision-based runway detection and tracking algorithm for automatic UAV landing," 2015 International Conference on Unmanned Aircraft Systems (ICUAS), 2015, pp. 1148-1157, doi: 10.1109/ICUAS.2015.7152407. Delice, Elif, Lütviye Özge Polatlı, Khaled Abu Jbara, Hakan Tozan, and Alper Ertürk. "Digitalization in Healthcare: A Systematic Review of the Literature." In <i>Proceedings</i>, vol. 85, no. 1, p. 26. MDPI, 2023. Colbran, Stephen, Alper Erturk, Vladimir Simovic, Doha Saleh Almutawaa, Wael Dabboussi, Rola Mourdaa, Fatima Allougman, and Khaled Abujbara. "The Role of Educational Technology and Open-Access Resources in Accessible Quality Learning and Teaching: An Exploratory Field Study on Academics, Students, and Administrators in Kuwait." In <i>Proceedings</i>, vol. 85, no. 1, p. 16. MDPI, 2023.

	Alper Erturk, Wael Dabboussi, Khaled Abu Jbara, Vladimir Simovic, Marcelle de la Roche. "Leveraging Artificial Intelligence to Promote Sustainability: Employing Machine Learning Techniques in Planning Predictive Maintenance of Wind Energy Systems". <i>Preprints</i> 2025, 2025022194. A. Al Ka'bi and K. AbuJbara, "Design of Wideband MIMO Antenna for 6G THz Systems," <i>2024 International Conference on Computer and Applications (ICCA)</i>, Cairo, Egypt, 2024, pp. 1-6, doi: 10.1109/ICCA62237.2024.10927907. A. Al Ka'bi and K. AbuJbara, "Reliability Analysis and Evaluation of PLC's Functional Diagrams," <i>2024 International Conference on Computer and Applications (ICCA)</i>, Cairo, Egypt, 2024, pp. 1-6, doi: 10.1109/ICCA62237.2024.10927880. Keynote Speaker at The Gulf BIM & Digital Construction Conference and Exhibition 2024. Title: AI, IoT, BIM: The Smart Building Trinity.
College Service including committee Membership:	KAUST -Graduate Orientation Leader -Graduate Council Member Kuwait University -ABET Accreditation of EE Department
National Service:	
College Committees:	AU -Credit Transfer Committee -Activities and Events committee -Labs committee -Project-Based Learning committee -Validation and Moderation Committee