

**College of Education for Pure Science - Department of Computer Science (DCS)**  
**Published Researches in International and Local Journals – 2025 - 2026**

Journal's Name	Publication Year	Type of Research	Title	Lecturer Name	Article Title	
The 7th International Conference on Knowledge Innovation and Invention	20/10/2025	Scopus	Assistant professor	Dr.Mohamad Alkawaz	Application of Attention-Driven Semi-supervised Medical Image Segmentation Model in Cardiac Image Segmentation	1
The 2nd International Conference on Networks, Communications and Intelligent Computing	13/11/2025	Scopus	Assistant professor	Dr.Mohamad Alkawaz	Concurrent Graph Data Sharing and Resource Optimization Model in Edge Computing	2
2025 IEEE Symposium on Wireless Technology & Applications(ISWTA)	21/1/2026	Scopus	Assistant professor	Dr.Mohamad Alkawaz	A Survey on Real Time Face Detection and Recognition in Video Streams for Multimedia Communication Systems using YOLOv12	3
Sustainable Engineering and Innovation	15-12-2025	Scopus	Assistant professor	Dr.Marwan Salim	Improving IoT support in Smart Cities through LoRa technology upgrading	4
International Journal on Perceptive and Cognitive Computing (IJPC)	30-1-2026	International	Assistant professor	Dr.Marwan Salim	Integrating Edge Computing with Internet of Things Systems for Smart Homes	5
Journal of Soft Computing and Data Mining (JSCDM)	12-2025	Scopus	Assistant Lecturer	Ammar Adel	Enhancing Pressure Vessel Design Optimization with a Hybrid CSA-PSO Algorithm	6
Journal of Education and Science	10-2025	Local	Assistant Lecturer	Ammar Adel	A Machine Learning-Based Intrusion Detection System for Real-Time Threat Detection and Mitigation	7
Applied Computer Science	12-2025	Scopus	Assistant professor	Dr.Alaa Taqa	SoundCrafter: Bridging text and sound with a diffusion model	8
PROSPECTIVE RESEARCHES JOURNAL	29-10-2025	Local	Lecturer	Yonis Abbas	Ant Colony Optimization for a 50 City Traveling Salesman Problem	
JOURNAL OF SOFT COMPUTING AND DATA MINING	30/12/2025	Scopus	Assistant Lecturer	Ehab Mahmood	Homomorphic Encryption-Enabled Federated Transfer Learning for Privacy-Preserving of Internet of Vehicles	10
Mesopotamian journal of Computer Science	30/09/2025	Scopus	Lecturer	Yonis bbas Hnaa Fathi Dr.Aasmaa Alqassab	End-to-End License Plate Detection and Recognition in Iraq Using a Detection Transformer and OCR	11
International Information and Engineering Technology Association (IIETA)	30/11/2025	Scopus	Assistant professor Lecturer	Dr.Mohamad Alkawaz Yonis Abbas Hanaa Fathi	Software-Defined Networking-Enhanced Fisheye State Routing Framework for Mobile Wireless Sensor Networks	12
Iraqi Journal of Science	13/01/2026	Scopus	Assistant professor	Dr.Alaa Taqa	Leveraging GANs and Vision Transformers for Text-to-Image Synthesis	
Mesopotamian Journal of Artificial Intelligence in Healthcare	19/02/2026	Scopus	Assistant professor Lecturer Lecturer	Dr.Mohamad Alkawaz Yonis Abas Meaad Mohamed	An Augmented Reality-Based Simulator for Enhancing Surgical Training and Skill Acquisition	14