

Scientific Research Published for the Year 2026

	Title	Type	Department	Academic Year	Researchers
1	Advanced Hybrid Convolutional Neural Network for Leaf-Based Plant Disease Detection	Academic	Artificial Intelligence Technology Engineering	2025/2026	Swash Mohammed
2	A Comprehensive Review of Centralized MPPT in Photovoltaic Systems: Robust Control and IoT-Driven Integration	Academic	Artificial Intelligence Technology Engineering	2025/2026	Dr. Montassar Aidi Sharif
3	Comprehensive Review of PV Array Reconfiguration and Scalability Under Partial Shading Submitted: Jun 12, 2026	Academic	Artificial Intelligence Technology Engineering	2025/2026	Dr. Montassar Aidi Sharif
4	Towards a Scalable IoT-Based Energy Monitoring Framework: Comparative Analysis and Integration with Emerging Technologies	Academic	Artificial Intelligence Technology Engineering	2025/2026	Dr. Montassar Aidi Sharif
5	Embedded MPPT for Photovoltaic Systems: Low-Cost Microcontrollers, P&O and Incremental Conductance Algorithms, and IoT-Based Monitoring- A Systematic Review	Academic	Artificial Intelligence Technology Engineering	2025/2026	Dr. Montassar Aidi Sharif
6	Deep Stacking Model for Earthquake Prediction in Kirkuk, Iraq	Academic	Artificial Intelligence Technology Engineering	2025/2026	Amel Saeed Tuama Alhussainy

7	A Systematic Review of Modern Intrusion Detection Systems: Challenges, Techniques, and Future Trends for Network Security	Academic	Cyber Security Technology Engineering	2025/2026	Hasan Kareem Abdulrahman
8	Three-Dimensional PNP–FEM of a Layered IPMC Artificial Skin under Finger-Like Sliding for Robotic Tactile Interfaces	Academic	Artificial Intelligence Technology Engineering	2025/2026	Dr. Montassar Aidi Sharif
9	A Dual-Memory Cognitive Algorithm for Heart Disease Diagnosis: An Unconscious Mind-Inspired Model with Pattern Consolidation and k-Nearest Neighbor Retrieval	Applied	Artificial Intelligence Technology Engineering	2025/2026	Ahmed AL-Qazzaz
10	Nonlinear Catastrophe Models: Classification and Stability Analysis Based on Polynomial Degree Submitted: Apr 27, 2026	Academic	Artificial Intelligence Technology Engineering	2025/2026	isam rafeq faeq
11	A Hybrid Model for Ultrasound Image-Based Breast Cancer Diagnosis Using EfficientNet-V2 and Vision Transformer	Academic	Artificial Intelligence Technology Engineering	2025/2026	Amel Saeed Tuama Alhussainy
12	FEM-Based Hybrid Compression Framework with Pipeline Implementation for Efficient Deep Neural Networks on Tiny ImageNet	Academic	Artificial Intelligence Technology Engineering	2025/2026	Amel Saeed Tuama Alhussainy
13	BIBIS: A Blockchain-Biometric Framework for Tamper-Proof Newborn Identification in Healthcare Facilities	Applied	Information Technology Engineering and Networks	2025/2026	Dr. Ann Zeki Ablahd Magdacy Jarges
14	Scalable and Energy Efficient Antenna Selection Strategies for Massive and Ultra Massive MIMO A Multi Scale Perspective from 5G toward 6G Networks	Academic	Cyber Security Technology Engineering	2025/2026	Huda Hamza Abdulkhudhur

15	Novel Medical Image Compression/Decompression Technique Based on Bicubic Interpolation With Matrix Reduction Algorithm Submitted: Mar 09, 2026	Academic	Information Technology Engineering and Networks	2025/2026	Sazeen taha abdulrazzaq
16	Machine Learning-Based Malware Detection Using Frequency Features	Academic	Cyber Security Technology Engineering	2025/2026	Helen F. Taha
17	Image-Based Text Translation a Fine-Tuning Using DeepSeek-Coder and Transformer Models for Multilingual Optical Character Recognition Processing	Academic	Artificial Intelligence Technology Engineering	2025/2026	Amel Saeed Tuama Alhussainy
18	Fusing Frequency and Spatial Transformers for Robust Detection of AI-Generated Images Submitted: Feb 22, 2026	Academic	Artificial Intelligence Technology Engineering	2025/2026	Amel Saeed Tuama Alhussainy
19	The Role of Parliamentary Oversight Under the 2005 Constitution of the Republic of Iraq.	Academic	Information Technology Engineering and Networks	2025/2026	Sawash Shaheen ibrahim
20	Administrative Decentralization of Governorates not organized in a region under the Constitution of the Republic of Iraq of 2005 Analytical Study.	Academic	Information Technology Engineering and Networks	2025/2026	Sawash Shaheen ibrahim
21	التنظيم القانوني لتمويل الحملات الانتخابية البرلمانية (دراسة مقارنة).	Academic	Information Technology Engineering and Networks	2025/2026	Sawash Shaheen ibrahim
22	Sustainable Energy Generation through Photovoltaic Systems: Current Trends and Future Perspectives	Academic	Artificial Intelligence Technology Engineering	2025/2026	Zaid Ahmed Aljawary

23	أثر ابعاد التحول الرقمي على جودة الخدمات المُدركة في الجامعة التقنية الشمالية: دراسة تحليلية للخدمات الأكاديمية والإدارية	Academic	Artificial Intelligence Technology Engineering	2025/2026	Mustafa Mahmood Meteab
24	Optimization and Feasibility Assessment of Hybrid Mini-Grid Power Systems for Iraq's Residential Rural Electrification	Academic	Cyber Security Technology Engineering	2025/2026	Huda Hamza Abdulkhudhur
25	Fusing Frequency and Spatial Transformers for Robust Detection of AI-Generated Images	Academic	Information Technology Engineering and Networks	2025/2026	Gona Mohammed Dhahir
26	Cyber Deception Framework for Proactive and Intelligent Network	Applied	Information Technology Engineering and Networks	2025/2026	Dr.Ann Zeki Ablahd Magdacy Jarges
27	Smart Detection and Prevention of Whaling Attacks	Applied	Information Technology Engineering and Networks	2025/2026	Dr.Ann Zeki Ablahd Magdacy Jarges