



Ahmed Kateb Jumaah Al-Nussairi

احمد كاتب جمعة قاسم النصيري

Lecturer

ACADEMIC TITLES

2024-11-05

Lecturer

PUBLICATIONS (9 2)

- Integrating Ecosystem Restoration and Urban Planning through Smart GIS-Based Land Reallocation Systems**
E3S Web of Conferences 711, 02007, 2026 | 2026
- Cross-Border Remittance Optimization Using Ripple Blockchain Framework**
Proceedings of the International Conference on Applied Innovations in IT ..., 2026 | 2026
- Machine learning-driven performance and emission optimization of cerium oxide nano-enhanced tobacco biodiesel in CI engines**
Hybrid Advances, 100627, 2026 | 2026 | Cited: 4
- A unified multi modal transformer framework for breast cancer recurrence prediction and survival analysis**
Scientific Reports 16 (1), 8334, 2026 | 2026 | Cited: 2
- Process-aware Temporal Graph Embedding for Detecting and Localizing Recurring Concept Drift.**
International Journal of Intelligent Engineering & Systems 19 (1), 2026 | 2026 | Cited: 11
- PatchSight-ImmuneMap-LifeSpan as a unified AI framework for breast cancer diagnosis, immune profiling and prognostic prediction**
Discover Oncology | 2026 | Cited: 3
- Soil Microbiome Modulation for Sustainable Ground Improvement: A Bio-Geo-Chemical Perspective**
E3S Web of Conferences 711, 02010, 2026 | 2026
- Mechanical Properties and Morphological Studies of PEEK+ nHA Polymer Matrix Composite for Biomedical Applications Using 3D Printing Technology**
Journal of Materials Engineering and Performance, 1-15, 2026 | 2026
- Artificial Neural Network–Based Adaptive Voltage Control of a Hybrid Zeta DC/DC Converter Using Multilayer Perceptron and Radial Basis Function Architectures with Back ...**
IEEE Access, 2026 | 2026 | Cited: 1
- A Multiscale Mathematical Model for Predicting the Long-Term Environmental Impact of Recycled Construction Materials**
E3S Web of Conferences 711, 01010, 2026 | 2026
- Decentralized Peer-to-Peer Lending Platform Using Ethereum Smart Contracts**
Proceedings of the International Conference on Applied Innovations in IT ..., 2026 | 2026
- Stability-Aware Hybrid Intelligence for Interpretable and Scalable Diabetes Risk Prediction**
Intelligence-Based Medicine, 100388, 2026 | 2026 | Cited: 1
- TransFusion-BCNet: A Transformer-Driven Multi-Modal Fusion and Explainable Deep Learning Framework for Breast Cancer Diagnosis**
Intelligence-Based Medicine, 100346, 2026 | 2026 | Cited: 1
- Hybrid ANN-ensemble models with interactive interface for predicting lateral confinement in RCC columns**
Asian Journal of Civil Engineering, 1-23, 2026 | 2026 | Cited: 1

CONTACT

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EDUCATION

دكتوراه (13-09-2023)

Robots

UNITEN

ماجستير (30-08-2018)

Communication networks

SUSU

بكلوريوس (31-08-2015)

Communication Network

Al-Furat Al-Awsat Technical

RESEARCH METRICS

h-index (Scopus)	7
h-index (GS)	10
Citations (Scopus)	168
Citations (GS)	260
Documents (Scopus)	69
Documents (GS)	88



15. **Enhancement of exhaust manifolds using hybrid Graphene-TiO₂ nano fluids in multi-cylinder diesel engines: A CFD study on TiO₂ advantages.**
Journal of Thermal Engineering 12 (2), 702, 2026 | 2026
16. **CardioMetaHybridOptimizer as a behaviorally adaptive multi-phase metaheuristic framework for interpretable cardiovascular disease diagnosis**
BMC bioinformatics, 2026 | 2026
17. **Prediction methods and influencing factors on the viscosity of nanofluids using machine learning: A comprehensive review**
International Communications in Heat and Mass Transfer 176, 111201, 2026 | 2026 | Cited: 1
18. **Mechanical Properties and Morphological Studies of PEEK plus nHA Polymer Matrix Composite for Biomedical Applications Using 3D Printing Technology**
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 2026 | 2026
19. **What opportunities does the fusion of AI with UT present for sustainable energy solutions, including power-to-gas methane conversion and combined heat and power applications?**
Energy Reports 15, 109283, 2026 | 2026
20. **DMA-UNet: A Dual-Branch Multi-Scale Attention U-Net for MRI Segmentation and Classification of Parotid Gland Tumours**
2026
21. **Price-preserving predictive energy management for blockchain mining in smart cities using a digital twin guided LSTM forecasting model**
International Journal of Electrical Power & Energy Systems 178, 111962, 2026 | 2026
22. **Thermal-structural optimization and experimental validation of modified pyramid solar stills using finite element analysis**
Scientific Reports, 2026 | 2026
23. **Optimizing static interphase power controllers (SIPC) placement: A comprehensive multi-objective strategy for enhanced performance of the electric transmission networks**
Energy Reports 15, 109188, 2026 | 2026
24. **Advanced deep neural network-back-stepping controller to cancel the chaotic behavior of Duffing-Holmes oscillator**
Energy Reports 15, 109197, 2026 | 2026
25. **A Sugeno-fuzzy integral fusion framework for brain tumor identification using transfer learning models**
Computer Methods in Biomechanics and Biomedical Engineering: Imaging ..., 2026 | 2026 | Cited: 1
26. **EduFeatOpt: An Educational Exploratory Dual-Mechanism Feature Optimization Framework Based on a Hybrid Swarm–Evolutionary Architecture for Relevance Maximization, Redundancy ...**
International Journal of Computational Intelligence Systems 19 (1), 222, 2026 | 2026
27. **Presenting an improved battery-less static inter phase controller structure and its role in confronting wind generation uncertainty**
Energy Reports 14, 3690-3703, 2025 | 2025 | Cited: 1
28. **Dynamic instability analysis of piezoelectric nanoplates under combined AC/DC voltages**
Results in Engineering 28, 107044, 2025 | 2025 | Cited: 1
29. **How can artificial networks enhance second-order hybrid extended kalman filtering for energy management?**
Energy Reports 14, 1368-1391, 2025 | 2025 | Cited: 1
30. **Real-Time Phishing URL Detection Using Gated Recurrent Units and Character-Level Embedding**
2025 International Conference on Next Generation Computing Systems (ICNGCS), 1-6, 2025 | 2025 | Cited: 1
31. **Generative Adversarial Networks-Driven Synthetic Data System for Secure E-Commerce Analytics**
2025 International Conference on Recent Innovation in Science Engineering ..., 2025 | 2025 | Cited: 1
32. **Precise forecasting of shear stress, viscosity, and density for an aqueous CuO/CaCO₃/SiO₂ ternary hybrid nanofluid utilizing the artificial neural network**
Scientific Reports, 2025 | 2025 | Cited: 4

33. **Graph Neural Networks-Based Trade Flow Prediction Framework for Global Economic Analysis**
2025 International Conference on Recent Innovation in Science Engineering ..., 2025 | 2025
34. **Time Series Analysis System Using Multimodal Deep Learning for Macroeconomic Forecasting**
2025 International Conference on Recent Innovation in Science Engineering ..., 2025 | 2025
35. **Federated Deep Learning-Optimized Credit Scoring Framework for Peer-to-Peer Lending**
2025 International Conference on Recent Innovation in Science Engineering ..., 2025 | 2025
36. **Deep Reinforcement Learning-Optimized Dynamic Pricing Framework for Online Retail**
2025 International Conference on Recent Innovation in Science Engineering ..., 2025 | 2025
37. **AI-Based Malware Classification in Android Apps Using Vision Transformer (ViT) on Bytecode Images**
2025 Second International Conference on Intelligent Technologies for ..., 2025 | 2025
38. **Integrating digital twins with neural networks for adaptive control of automotive suspension systems**
Scientific Reports 15 (1), 11078, 2025 | 2025 | Cited: 15
39. **AI powered blockchain framework for predictive temperature control in smart homes using wireless sensor networks and time shifted analysis**
Scientific Reports 15 (1), 18168, 2025 | 2025 | Cited: 12
40. **Optimization of viscosity and thermal conductivity of copper/SAE10W oil nanofluid using artificial neural networks and multi-objective genetic algorithm to improve damper oil performance**
International Communications in Heat and Mass Transfer | 2025
41. **Optimization of viscosity and thermal conductivity of copper/SAE10W oil nanofluid using artificial neural networks and multi-objective genetic algorithm to improve damper oil ...**
International Communications in Heat and Mass Transfer 168, 109440, 2025 | 2025 | Cited: 10
42. **Non-overlapping Patch-Based Pre-trained CNN for Breast Cancer Classification**
Iraqi Journal for Computer Science and Mathematics 6 (2), 29, 2025 | 2025 | Cited: 10
43. **Identifying Glaucoma with Deep Learning by utilizing the VGG16 Model for Retinal Image Analysis**
Intelligence-Based Medicine, 100307, 2025 | 2025 | Cited: 9
44. **A comprehensive review of data analytics and storage methods in geothermal energy operations**
Results in Engineering 27, 106068, 2025 | 2025 | Cited: 8
45. **Advanced multi-loop control for 4DOF robotic arms: Integrating digital twins, neural networks, and model predictive control**
Energy Reports 13, 4261-4279, 2025 | 2025 | Cited: 7
46. **An investigation into the effects of various phase change materials on industrial electronic systems' cooling rates through experimentation based on a specific dimensionless number**
International Communications in Heat and Mass Transfer 169, 109573, 2025 | 2025
47. **Parametric dynamic instability of a nonlocal axially moving nano-beam with harmonic length under thermo-mechanical forces**
Results in Engineering, 106623, 2025 | 2025 | Cited: 5
48. **Agent-Based Modelling of Human and Alien Conflict Dynamics in A Multi-Species Simulation Framework.**
Natural & Engineering Sciences 10 (3), 2025 | 2025
49. **Energy recovery opportunity at natural gas regulating station by using a novel multi-generation system: Energy and exergy analysis and multi-objective optimization**
International Communications in Heat and Mass Transfer 169, 109638, 2025 | 2025 | Cited: 3
50. **Computational machine learning estimation of digitoxin solubility in supercritical solvent at different temperatures utilizing ensemble methods**
Scientific Reports 15 (1), 29248, 2025 | 2025 | Cited: 3
51. **Papaya fruit and leaf ringspot virus detection using convolutional neural network (CNN) and transfer learning**
Int. J. Environ. Sci 11, 449-454, 2025 | 2025 | Cited: 3
52. **Precise forecasting of shear stress, viscosity, and density for an aqueous CuO/CaCO₃/SiO₂ ternary hybrid nanofluid utilizing the artificial neural network**
Scientific Reports | 2025

53. **Accurate prediction of physical properties of different Freons via different machine learning models**
International Communications in Heat and Mass Transfer 169, 109907, 2025 | 2025 | Cited: 2
54. **LS-BMO-HDBSCAN as a hybrid memetic bacterial intelligence framework for efficient data clustering**
Scientific Reports 15 (1), 40686, 2025 | 2025 | Cited: 2
55. **Cyber Attack Prediction in Enterprise Networks Using Temporal Convolutional Networks (TCN)**
2025 International Conference on Next Generation Computing Systems (ICNGCS), 1-7, 2025 | 2025 | Cited: 2
56. **Multimodal Learning-Driven Recruitment Screening System for Talent Acquisition Automation**
2025 International Conference on Recent Innovation in Science Engineering, 2025 | 2025 | Cited: 3
57. **Deep Reinforcement Learning-Optimized Resource Allocation System for Agile Management**
2025 International Conference on Recent Innovation in Science Engineering, 2025 | 2025 | Cited: 2
58. **Retraction notice to “Optimal variable estimation of a Li-ion battery model by fractional calculus and bio-inspired algorithms” [J. Energy Storage 54 (2022) 105323]**
Journal of Energy Storage 103, 114012, 2024 | 2024
59. **Retraction notice to “Optimal variable estimation of a Li-ion battery model by fractional calculus and bio-inspired algorithms” [J. Energy Storage 54 (2022) 105323] (Journal of Energy Storage (2022) 54, (S2352152X22013202), (10.1016/j.est.2022.105323))**
Journal of Energy Storage | 2024
60. **Deep Learning for Workforce Planning and Analytics**
2024 Second International Conference Computational and Characterization, 2024 | 2024 | Cited: 17
61. **An effective indoor positioning system by modified linearized least square approach using UWB technology**
Applied Geomatics 16 (1), 17-28, 2024 | 2024 | Cited: 12
62. **Advanced Soft Robotics in Healthcare: Enhancing Patient Assistance with Machine Learning, Soft Actuators, and Human-Robot Interaction Algorithms**
2024 International Conference on Augmented Reality, Intelligent Systems, and, 2024 | 2024 | Cited: 3
63. **Adaptive Robot Planning and Learning in Dynamic Environments: Enhancing Autonomy and Efficiency**
2024 International Conference on Augmented Reality, Intelligent Systems, and, 2024 | 2024
64. **Cognitive Computing in Customer Service Automation**
2024 International Conference on Innovative Computing, Intelligent, 2024 | 2024
65. **IoT for Smart City Planning and Development**
2024 Second International Conference Computational and Characterization, 2024 | 2024
66. **Application of Nano-Technology in Increasing Food Health and Improving Industrial Agriculture**
Nanotechnology Perceptions 20 (S2(2024)), 8, 2024 | 2024
67. **mmWave Channel Estimation in UAV Enabled Communication Network**
Nanotechnology Perceptions, 445–455-445–455, 2024 | 2024
68. **Increasing the operational and environmental performance of a diesel power installation by utilizing water-based fuel**
Edelweiss Applied Science and Technology 8 (6), 9269-9286, 2024 | 2024
69. **Optimization of Energy Systems in a Distribution Micro grid: An Application of the Particle Swarm Optimization**
Majlesi Journal of Electrical Engineering 17 (2), 2023 | 2023 | Cited: 3
70. **Removal of Chromium Ions from Polluted Water by Highly Active Surface ZnO/ Activated Carbon: Kinetic and Thermodynamic Model**
Journal of Nanostructures | 2023 | Cited: 1
71. **Evaluation of Hybrid Soft Computing Model's Performance in Estimating Wave Height**
Advances in Civil Engineering | 2023 | Cited: 19
72. **SELF-OPTIMIZED INDOOR POSITIONING AND NAVIGATION SYSTEM USING UWB FOR EMERGENCY SITUATIONS**
2023

73. **Maximizing the generated power of wind farms by using optimization method**
Journal of Operation and Automation in Power Engineering 11 (Special Issue ...; 2023 | 2023 | Cited: 1
74. **Designing a mathematical model to solve the uncertain facility location problem using c stochastic programming method**
Foundations of Computing and Decision Sciences 48 (3), 345-355, 2023 | 2023 | Cited: 1
75. **Improving the transition capability of the low-voltage wind turbine in the sub-synchronous state using a fuzzy controller**
Clean Energy 6 (4), 682-692, 2022 | 2022 | Cited: 27
76. **Optimum Sorption Isotherm by Linear and Non-linear Methods for Methyl Violet onto Hydrogel Surface**
International Journal of Pharmaceutical Quality Assurance | 2022
77. **Optimal variable estimation of a Li-ion battery model by fractional calculus and bio-inspired algorithms**
Journal of Energy Storage | 2022
78. **RAT: Autonomous car driving using neural networks**
International Conference on Applied Artificial Intelligence and Computing ...; 2022 | 2022
79. **Calculation of The Positions Accuracy Between The Anchor Nodes And The Mobile Station Inside A Closed Building By Using UWB Technology**
NeuroQuantology 20 (7), 594, 2022 | 2022
80. **Enhanced Least Square Method for Indoor Positioning System Using UWB Technology**
Webology 19 (1), 2022 | 2022 | Cited: 3
81. **Data mining with its role in marketing, sales support and customer identification data analysis**
International Journal Artificial Intelligent and Informatics 3 (2), 104-116, 2022 | 2022 | Cited: 5
82. **Molecular dynamics study of oil type and volume ratio of nanoparticles on the thermal behavior of nanorefrigerants**
Case Studies in Thermal Engineering 37, 102255, 2022 | 2022 | Cited: 5
83. **RETRACTED: Optimal variable estimation of a Li-ion battery model by fractional calculus and bio-inspired algorithms**
Journal of Energy Storage 54, 105323, 2022 | 2022 | Cited: 19
84. **Expansion the signal spectrum by increasing the bandwidth through the channel**
AIP Conference Proceedings 2394 (1), 050004, 2022 | 2022
85. **Prediction of Fractures and Cracks to Improve the Drilling Operations**
Asian Journal of Water, Environment and Pollution 19 (1), 59-65, 2022 | 2022
86. **Design a mathematical planning approach to optimize the supply chain taking into account uncertainties in distributors**
Foundations of Computing and Decision Sciences 47 (4), 409-420, 2022 | 2022 | Cited: 1
87. **OFDM based FFT compared with OFDM based wavelet transform**
IOP Conference Series: Materials Science and Engineering 518 (5), 052011, 2019 | 2019 | Cited: 4
88. **Automated Detection of Eggplant Diseases Using Custom Convolutional Neural Network (CNN) and Transfer Learning Models**
International Journal of Environmental Sciences 11 (22s), 2025, 0 | 0 | Cited: 1
89. **Intelligence-Based Medicine**
practice 24, 25, 0 | 0
90. **A NEW DESCRIPTIVE ESTIMATE OF DISTANCE ALGORITHMS UTILISING UWB TECHNOLOGY**
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91. **&Uktamov, KF (2022)**
Improving the transition capability of the low-voltage wind turbine in the ...; 0 | 0 | Cited: 6
92. **Genetic Algorithm-Based Hyperparameter Optimization For Diabetes Type Prediction Using SVM And LSTM**
International Journal of Environmental Sciences 11 (22S), 2025, 0 | 0 | Cited: 1