

ISSN Print: 2074-9090, ISSN Online: 2074-9104
Volume 18, Number 3, June 2026

International Journal of

Computer Network and Information Security

Vol.18

No.3 Jun. 2026

IJCNIS **Vol.18**

[Http:// www.mecs-press.org](http://www.mecs-press.org)

Vol. 18 No.3 June 2026



Contents

REGULAR PAPERS

Green D-OXA: Energy-Efficient Fog Node Placement with Renewable Energy Integration for Sustainable IoT Networks <i>Islam S. Fathi</i>	1
FEDMAD: A Privacy-Preserving Adaptive Federated Learning Framework with Robustness against Data Quality Variations <i>Dhanraj Rateria, Nishanth M., Shankaramma Malige, Swapnil Rao</i>	23
A Hybrid MAML-reptile Based Few-shot Learning Approach for Securing Fog-iot Networks against Maleficent Behaviors <i>Surya Pavan Kumar Gudla, Sourav Kumar Bhoi, Kshira Sagar Sahoo, GNV Rajareddy</i>	44
Forensically Interpretable Graph Descriptors for Improved Illicit Bitcoin Transaction Detection <i>Medet Shaizat, Shynar Mussiraliyeva, Ihor Tereikovskiy</i>	63
Hybrid 2D Logistic Chaotic Map and Vernam Cipher for Secure Image Encryption and Steganography <i>Gahan A. V., Geetha D. Devanagavi</i>	85
Adaptive Osprey-bowerbird Optimized Green Cloud Computing with Randomized Attention Coupled Fair Resource Distribution in Scalable Systems <i>Aishwarya Shekhar, Abdul Aleem</i>	105
Trust Aware Multi Objective V2V Routing Using a Quantum Inspired Trust Aware Opportunistic Routing (Q-TAOR) <i>Shaik Mazhar Hussain</i>	122
Machine Learning-driven Energy-efficient Routing in Wireless Sensor Networks: Predicting Node Lifetime for Optimized Performance <i>Ahmad Fuad Hamadah Bader</i>	141
Q-Learning-Based Task Scheduling for Low-Latency Edge Offloading in MEC Systems <i>B. Swapna, K. Ravindranath</i>	158
Strengthening Security in Iomt: A Blockchain-Based Cybersecurity Framework for Similarity Directed Graph Neural Network Driven ECG Signal Classification <i>Ragini Mokkalpat, S. Ilavarasan, Kamal Kant Sharma, Mahadev Gawas</i>	184
Blockchain-Fick Gradient Model for Secure MANET Routing and Threat Analytics <i>M. Sudha, Parag Rastogi, Anuradha Konidena, Karthiga R.</i>	203
Adaptive Trust Node Routing via Energy-Aware and Steerable Network with Stochastic Optimization for Augmented Intrusion Detection in MANET Infrastructures <i>Mehaboob Mujawar, R. Mohandas, R. Giri Prasad, K. Narasimha Raju</i>	221
