

ISSN Print: 2074-9090, ISSN Online: 2074-9104  
Volume 17, Number 4, August 2025

International Journal of

# Computer Network and Information Security

**Vol.17**

No.4 Aug. 2025

**IJCNIS** Vol.17

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

Vol.17 No.4 August 2025



## Contents

---

### REGULAR PAPERS

Software-defined Networking Controller for Detection of DDoS Attacks Based on Deep Neural Networks <i>Jeyavim Sherin R. C., Parkavi K.</i>	1
A Novel Verkle Tree-based Post-quantum Digital Signature System with Enhanced Random Number Generation <i>Maksim Iavich, Tamari Kuchukhidze, Razvan Bocu</i>	19
Finding Optimal Routes in Internal Routing Networks based on a Modified Dijkstra's Algorithm <i>Borys Riabenko, Oksana Martynova, Yuliia Boiarinova, Arkadii Krainosvit</i>	37
A Hybrid PSO-GSA Approach for Cluster Head Selection and Fuzzy Logic Data Aggregation in DEEC-based WSNs <i>Sarang Dagajirao Patil, Pravin Sahebrao Patil.</i>	48
Real-time Sybil Attack Detection Based on Channel Characterization in VANET <i>Reham Almesaeed</i>	71
Identifying Influential Nodes in the Spread of Criminal Information in Social Networks <i>Shynar Mussiraliyeva, Gulshat Baispay, Ihor Tereikovskiy</i>	84
Performance Optimization of Vehicle-to-vehicle Communication through Reactive Routing Protocol Analysis <i>Ketut Bayu Yogha Bintoro, Tri Kuntoro Priyambodo, Kunto Wicaksono, Ade Syahputra</i>	100
Smart Tool for Text Content Analysis to Identify Key Propaganda Narratives and Disinformation in News Based on NLP and Machine Learning <i>Maryna Nyzova, Victoria Vysotska, Lyubomyr Chyrun, Zhengbing Hu, Yuriy Ushenko, Dmytro Uhryn</i>	113

---