

Dr. N. Bhalaji

Associate Professor

Department of Information Technology

Address: SSN College of Engineering, Kalavakkam, Chennai-603110

Email: bhalajin@ssn.edu.in

Area of Interest: Internet of Things, Blockchain Technologies, Networks, Software Engg., Artificial Intelligence, Cognitive Computing

Publication Details:

1. **N Bhalaji**, "A Novel Hybrid Routing Algorithm with Two Fish Approach in Wireless Sensor Networks", Journal of trends in Computer Science and Smart technology (TCSST) 2 (03), 2020
2. **N Bhalaji**, "EL DAPP–An Electricity Meter Tracking Decentralized Application", Journal of Electronics 2 (01), 49-71, 2020
3. V Muthukumar, **N Bhalaji**, "MOOCVERSITY-Deep Learning Based Dropout Prediction in MOOCs over Weeks", Journal of Soft Computing Paradigm (JSCP) 2 (03), 140-152, 2020
4. **N Bhalaji**, C Rimi, "Remaining Useful Life (RUL) estimation of lead acid battery using bayesian approach", J. Electr. Eng. Autom 2, 25-34, 2020
5. **N Bhalaji**, "Fog Computing–A Raspberry Pi Decentralized Network", Journal of Information Technology 2 (01), 27-42, 2020
6. **N Bhalaji**, "Efficient and Secure Data Utilization in Mobile Edge Computing By Data Replication", Journal of ISMAC 2 (01), 1-12, 2020
7. VV Narayanan, MVR Kumar, K Saxena, P Madhavan, **N Bhalaji**, "Modern Parking Business Using Blockchain and Internet of Things (IoT)", Artificial Intelligence and Evolutionary Computations in Engineering Systems, Pages 527-535, 2020
8. V Arulkumar, **N Bhalaji**, "Resource Scheduling Algorithms for Cloud Computing Environment: A Literature Survey", Inventive Communication and Computational Technologies, 1059-1069, 2020
9. V Arulkumar, **N Bhalaji**, "Performance analysis of nature inspired load balancing algorithm in cloud environment", Journal of Ambient Intelligence and Humanized Computing, 1-8, 2020
10. V Arulkumar, **N Bhalaji**, "Load balancing in cloud computing using water wave algorithm", Concurrency and Computation Practice and Experience, 1-10, 2019
11. KB Sundhara Kumar, **N Bhalaji**, "A Novel Hybrid RNN-ELM Architecture for Crime Classification", International Conference on Computer Networks and Inventive Communication, 876-882, 2019

12. **N Bhalaji**, S Venkatesh, "Enhanced analysis of border surveillance using intruders' crossing strategies", *Soft Computing*, 1-12, 2019
13. Sundhara Kumar KB, G Krishna, **N Bhalaji**, S Chithra, "BCI cinematics—A pre-release analyser for movies using H2O deep learning platform", *Computers & Electrical Engineering* 74, 547-556, 2019
14. M Pruthvi, S Karthika, **N Bhalaji**, "A Novel Framework for SIoT College", 2019 International Conference on Computational Intelligence in Data Science, 1-4, 2019
15. **N Bhalaji**, PC Abilashkumar, S Aboorva, "A Blockchain Based Approach for Privacy Preservation in Healthcare IoT", *International Conference on Intelligent Computing and Communication*, 465-473, 2019
16. **N Bhalaji**, KS Hariharasudan, K Aashika, "A trust based mechanism to combat blackhole attack in RPL protocol", *International Conference on Intelligent Computing and Communication*, 457-464, 2019
17. **N Bhalaji**, "QOS AND DEFENSE ENHANCEMENT USING BLOCK CHAIN FOR FLY WIRELESS NETWORKS", *Journal of trends in Computer Science and Smart technology (TCSST)* 1 (01), 1-13, 2019
18. **N Bhalaji**, "Delay Diminished Efficient Task Scheduling and Allocation for Heterogeneous Cloud Environment", *Journal of trends in Computer Science and Smart technology (TCSST)* 1 (01), 51-62, 2019
19. **N Bhalaji**, "Performance evaluation of flying wireless network with Vanet routing protocol", *Journal of ISMAC* 1 (01), 56-71, 2019
20. K Kabilan, **N Bhalaji**, S Chithra, "Analysis of 6LOWPAN and CoAP Protocols for Maternal Health Care", *Lecture notes in Electrical Engineering (Microelectronics, Electromagnetics)*, 171-180, 2019
21. J Hariharakrishnan, **N Bhalaji**, "A Novel Approach Towards Enhancing the Performance of Trust Based RPL Protocol in Internet of Things", *International Conference on Intelligent Systems Design and Applications*, 813-822, 2018
22. K Kabilan, **N Bhalaji**, C Selvaraj, M Kumaar, PTR Karthikeyan, "Performance analysis of IoT protocol under different mobility models", *Computers & Electrical Engineering* 72, 154-168, 2018
23. **N Bhalaji**, S Chithra, K Kabilan, "Performance Analysis of RPL Protocol for Water Quality Assessment", 2018 2nd International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC), 694-702, 2018
24. M Pruthvi, S Karthika, **N Bhalaji**, "“SMART COLLEGE”-Study of Social Network and IoT Convergence", 2018 2nd International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC), 100-103, 2018
25. T Dhanush, B Aswin Ramnath, M Krishnakanth, **N Bhalaji**, "Smart Rooms Automation System by Thermal Sensing", 2018 International Conference on Inventive Research in Computing Applications (ICIRCA), 596-600, 2018

26. M Srividya, S Mohanavalli, **N Bhalaji**, "Behavioral modeling for mental health using machine learning algorithms", Journal of medical systems, 42-88, 2018
27. Swathi Singh M. V. Ranjith Kumar, **N. Bhalaji**, "An augmented approach for pseudo-free groups in smart cyber physical system", Cluster computing 22, 673-692, 2018
28. C Selvaraj, **N Bhalaji**, "Enhanced portable text to speech converter for visually impaired", International Journal of Intelligent Systems Technologies and Applications 17 (1-2), 42-54, 2018
29. **N Bhalaji**, KB Sundhara Kumar, Chithra Selvaraj , "Empirical study of feature selection methods over classification algorithms", International Journal of Intelligent Systems Technologies and Applications 17 (1-2), 98-108, 2018
30. M Kathiravan, **N Bhalaji**, "ONLINE OPINION MINING SYSTEM TO PREDICT THE QUALITY OF STATE UNIFORM SYSTEM OF SCHOOL EDUCATION", The Online Journal of Distance Education and e-Learning 6 (1), 45, 2018
31. NVS Sree Rathna Lakshmi, S Babu, **N Bhalaji**, "Analysis of clustered QoS routing protocol for distributed wireless sensor network", Computers & Electrical Engineering 64, 173-181, 2017
32. AS Karuppan, N Ramaraj, **N Bhalaji**, "A Metaheuristic Resource Allocation Scheme in Cloud Computing", Journal of Computational and Theoretical Nanoscience 14 (8), 3988-3993, 2017
33. B Gnanamozi, **N Bhalaji**, "Deployment of overlay networks in IoT applications", 2017 International conference of Electronics, Communication and Aerospace Technology (ICECA) 2, 114-119, 2017
34. G Krishna, **N Bhalaji**, "Electroencephalography Based Analysis of Emotions Among Indian Film Viewers", International Conference on Advanced Informatics for Computing Research, 145-155, 2017
35. M Kathiravan, **N Bhalaji**, "Mining Frequent and Infrequent Aspect Extraction for Sentiment Classification Using Online Reviews", Journal of Computational and Theoretical Nanoscience 14 (3), 1339-1349, 2017
36. **N Bhalaji**, C Selvaraj, "Comprehensive Trust Based Scheme to Combat Malicious Nodes in MANET Based Cyber Physical Systems", Proceedings of International Conference on Communication and Networks, 543-550, 2017
37. KB Sundhara Kumar, **N Bhalaji**, "A study on classification algorithms for crime records", International Conference on Smart Trends for Information Technology and Computer Communications , 873-880, 2016
38. **N.Bhalaji**, Vaikkunth Mugunthan, Shrihari.S, "ANALYSIS OF NEW L5 ALGORITHM EMBEDDED WITH MODIFIED AES ALGORITHM IN ADDRESS ALLOCATION SCHEMES", Journal of Telecommunication, Electronic and Computer Engineering (JTEC) 8 (6), 133-136, 2016
39. **N Bhalaji**, SJ Prasanna, N Parthiban, "Performance Analysis of CREIDO Enhanced Chord Overlay Protocol for Wireless Sensor Networks", Proceedings of the International Conference on Data Engineering and Communication Technology, 489-499, 2016

40. GG Krishna, G Krishna, **N Bhalaji**, “Analysis of routing protocol for low-power and lossy networks in IoT real time applications”, *Procedia Computer Science* 87, 270-274, 2016
41. A Prakash, M Satish, TSS Bhargav, **N Bhalaji**, “Detection and Mitigation of Denial of Service Attacks Using Stratified Architecture”, *Procedia Computer Science* 87, 275-280, 2016
42. M Umaparvathi, **N Bhalaji**, SJ Prasanna, N Parthiban, “Analysis of Creido Enhanced Chord Overlay Protocol Under Different Movement Models in Delay Tolerant Networks”, *Wireless Personal Communications*, 1-17, 2016
43. NVS Sree Rathna Lakshmi, **N Bhalaji**, B Sivakumar, “On the Construction of QoS Based Overlay Architecture for Wireless Local Area Network”, *Wireless Personal Communications*, 1-13, 2016
44. **N.Bhalaji**, Mercy Devadas, “Qos In Genetic Algorithm Derived Fuzzy Based Ad-Hoc Network”, *International Journal of Pure and Applied Mathematics* 101 (5), 877-892, 2015
45. Dr. D.K.Ghosh and **Dr.N.Bhalaji** E.Umamaheswari, “Software Engineering Measures Using Radial Basis Function Neural Network”, *International journal of Applied Engineering Research* 9 (23), 22629-22639, 2014
46. B Sivakumar, **N Bhalaji**, D Sivakumar, “A survey on investigating the need for intelligent power-aware load balanced routing protocols for handling critical links in MANETs”, *The Scientific World Journal* 2014