

Dr. R. SARAVANAN
Professor, School of Computer Science and Engineering, Vellore Institute of Technology
(VIT), Vellore -632014, Vellore, Tamilnadu. Mobile: +91 9442104203

LIST OF PUBLICATIONS

International Journal Publication:

1. Gundala Swathi, R. Saravanan, "A Framework for efficient routing in MANET using index routing tables based algorithms", Defence Science Journal, Vol. 66, No. 6, pp. 568-573, 2016
2. H. Seetha, M. Narasimha Murty, R. Saravanan, "Classification by Majority voting in feature partitions", International Journal of Information and Decision Sciences, Vol.8, No.2, pp.109-124, 2016
3. U. Rahamathunnisa, R. Saravanan, "An Effective System for Video Transmission and Error Recovery Mechanisms in Multimedia Networks", International Journal of Advanced Intelligence Paradigms, Accepted, In press, 2016
4. Marimuthu Karuppiah, R.Saravanan, "A Dynamic ID-based Generic Framework for Anonymous Authentication Scheme for Roaming Service in Global Mobility Networks", Wireless Personal Communications, DOI: 10.1007/s11277-016-3672-3, Sep, 2016 online.
5. Ganesh Gopal, R. Saravanan, "Selfish Node Detection Based on Evidence by Trust Authority and Selfish Replica Allocation in DANET", International Journal of Information and Communication Technology, Vol 9, No.4, 473-491, 2016
6. Gundala Swathi, R. Saravanan, "Improving the transmission performance based on minimizing energy in mobile adhoc networks", ICTACT Journal on Communication Technology, Vol.6, No.2, pp. 1091-1094, 2015
7. H. Seetha, M. Narasimha Murty, R. Saravanan, "Effective feature selection technique for text classification", International Journal of Data Mining, Modeling and Management, Vol. 7, No.3, pp.165-184, 2015
8. Seetha R, R. Saravanan, "A secure robust on-demand multicast routing protocol over mobile Ad Hoc networks", International Journal of Applied Engineering Research, Vol.10, No.12, pp.31721-31726, 2015
9. Seetha R, R. Saravanan, "A Survey on Group Key Management Schemes", Cybernetics and Information Technologies, Vol.15, No.3, pp.3 – 25, 2015
10. Sumathy Subramaniam, R.Saravanan, "A Swarm Intelligence based Approach for Addressing Network Partitioning Constraints in Mobile Ad Hoc Networks", International Journal of Communication Networks and Distributed Systems, Vol. 14, No.2, pp.164-184, 2015
11. Marimuthu Karuppiah, R.Saravanan, "Cryptanalysis of an Improved Dynamic ID-based Remote User Authentication Scheme with Session Key Agreement" Proceedings of 3rd ICACNI 2015, Jun 23-25, 2015
12. Marimuthu Karuppiah, R.Saravanan, "A Secure Authentication Scheme with User Anonymity for Roaming Service in Global Mobility Networks", Wireless Personal Communications, Vol. 84, No.3, pp.2055-2078, 2015

13. Marimuthu Karuppiah, R.Saravanan, "Cryptanalysis and an Improvement of New Remote Mutual Authentication Scheme using Smart Cards", *Journal of Discrete Mathematical Sciences and Cryptography*, Vol.18, No. 5, pp. 623-649, 2015
14. Ganesh Gopal, R. Saravanan, "A Novel Trust Based System to Detect the Intrusive Behaviour in MANET", *International Journal of Electronics and Information Engineering*, Vol.3, No.1, pp. 31-43, 2015
15. Ganesh Gopal, R. Saravanan, "Fuzzy Based Energy Aware Routing Method with Trustworthiness for MANET", *International Journal of Electronics and Information Engineering*, Vol.3, No.2, pp. 67-80, 2015
16. Gundala Swathi, R. Saravanan, "Secure routing in MANET using synchronization and data authenticity", *Cybernetics and Information Technologies*, Vol. 14, No.2, pp. 24-30, 2014
17. Gundala Swathi, R. Saravanan, "Improve the Routing Performance in Wireless Networks to Avoid Congestion Using Queuing Model", *International Journal of Applied Engineering Research*, Vol. 9 , No. 7, pp.825-833, 2014
18. Marimuthu Karuppiah, R.Saravanan, "A secure remote user mutual authentication scheme using smart cards", *Journal of Information Security and Applications*, Vol. 19, No.4 - 5, pp.282-294, 2014
19. Gundala Swathi, Ponugupati Sujala , R. Saravanan, "Reducing communication overhead for authentication using self contained public key management schemes in MANET", *International Journal of Engineering and Technology (IJET)*, Vol.5, No.3, pp.2059-2068, 2013
20. Gundala Swathi, Harshavardhan, R. Saravanan, "Secure Routing in MANET using Asymmetric Graphs", *Journal of Theoretical and Applied Information Technology*, Vol.48, No.2, pp.666-677, 2013
21. Seetha R, R. Saravanan, "Multicast Security issues in Mobile Ad hoc Networks", *International Journal of Emerging Trends in Engineering and Development*, Vol. 1, No.3, pp. 189-194, 2013
22. U. Rahamathunnisa, R. Saravanan Ajith, A.M., Nincy James, "A study on consumed bandwidth using link share algorithm", *IEEE International Conference on Information Communication and Embedded Systems (ICICES)*, Chennai, Feb 21-22, pp.718-721, 2013
23. U. Rahamathunnisa, R. Saravanan, "A survey on video streaming over multimedia networks using TCP", *Journal of Theoretical and Applied Information Technology*, Vol.53, No.2, pp.205-209, 2013
24. Sumathy Subramaniam, R.Saravanan, Pooja K. Prakash, "Trust based routing to improve network lifetime of mobile adhoc networks" , *Journal of computing and information technology – CIT*, Vol.21, No. 3, pp.149-160, 2013
25. H. Seetha, R.Saravanan, M. Narasimha Murty, "Pattern Synthesis Using Multiple Kernel Learning For Efficient SVM Classification", *Cybernetics and Information Technologies*, (Bulgarian Academy of Sciences), Vol.12, No.4, pp. 77-94, 2012
26. H. Seetha, M. Narasimha Murty, R. Saravanan, "On Improving the Generalization of SVM Classifier", In *Proceedings of Fifth International Conference of Information Processing (ICIP 2011)*, CC1S 157, pp. 11-20, 2011
27. H. Seetha, M. Narasimha Murty, R. Saravanan, "A Note on the effect of Bootstrapping and Clustering on the Generalization Performance", *International Journal of Information Processing*, Vol.5, No.4 pp. 19-34, 2011

28. S. Sumathy, R. Saravanan, "ETX Metric for Extremely Opportunistic Routing to Improve the Performance of Hybrid Wireless Networks", International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC), Vol.2, No.4, pp.107-117, 2011
29. S. Sumathy, R. Saravanan, M. Vijay Kumar, C. Vinay Kumar, "Extremely Opportunistic Routing with Expected Transmission Count to Improve QoS in Hybrid Wireless Networks", Advances in Parallel Distributed Computing, Communications in Computer and Information Science, Vol.203, Sep 23-25, pp. 449-458, 2011
30. N.Jaisankar, R. Saravanan, "An Efficient layered security framework for protecting Network Layer operations in Mobile Adhoc Networks", International Journal of Communication Networks and Distributed Systems (IJCNDs), Vol. 5, No.3, pp.295-307, 2010
31. N.Jaisankar, R. Saravanan, "An Extended AODV Protocol for Multipath Routing in MANETs", IACSIT International Journal of Engineering and Technology, Vol.2, No.4, pp.394-400, 2010
32. N. Jaisankar, R. Saravanan, K. Durai Swamy, "A Novel Multipath Routing Scheme in Mobile Adhoc Networks", Information Processing and Management, Communications in Computer and Information Science, Vol. 70, pp.209-216, 2010
33. N. Jaisankar, R. Saravanan, K. Durai Swamy, "A Novel Security Approach for Detecting Black Hole Attack in MANET", Information Processing and Management, Communications in Computer and Information Science, Vol.70, pp. 217-223, 2010