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Publications

- 1) **Selvakumar, K.**, and G. Revathy. "Escalating quality of services with channel assignment and traffic scheduling in wireless mesh networks." Cluster Computing (2018): 1-7
- 2) **Selvakumar, K.**, and G. Revathy. "Channel Assinment Using Tabu Search in Wireless Mesh Networks." Wireless Personal Communications 100, no. 4 (2018): 1633-1644.
- 3) **Selvakumar, K.** & Seethalakshmi, N. Secure group key management protocol for mobile ad hoc networks Cluster Computing (2018). <https://doi.org/10.1007/s10586-017-1535-7>
- 4) **Dr K.Selvakumar** and V.Senthil Murugan, R.Chitrarasan., "Efficient Path Selection Algorithm Using Particle Swarm Optimization Techinque In Manet", International Journal of Applied Engineering Research, Vol.11 No.4 , June 2016, pp. 92-101.
- 5) **Dr K.Selvakumar** And V.Senthil Murugan.(2016), "An improved method of Routing Process and Reducing Rushing Attack for Ad-hoc On-Demand Distance Vector in MANET ",ARPN Journal of Engineering and Applied Sciences (ISSN 1819-6608), (Accepted for publication).
- 6) **Dr K.Selvakumar** and V.Senthil Murugan, " PSO based IDS for Ad-hoc On-Demand Distance Vector and Destination-Sequenced Distance Vector ", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol.10 No.59 , pp. 542-548, Sep 2015.
- 7) **Dr K.Selvakumar** and V.Senthil Murugan, "Security Measures for Black hole Attack and develop a Intrusion Detection System based Genetic Algorithm in Mobile Ad-Hoc Network.", Australian Journal of Basic and Applied Sciences, ISSN 1991-8178 , pp. 26-30, Oct 2015.
- 8) **Dr K.Selvakumar**, N.Malarvizhi and V.Senthil Murugan, "Performance Evaluation of AODV Routing Protocol Under Black Hole Attack", Advances in Natural and Applied Sciences, ISSN 1995-0772 Vol. 9(6) Special 2015, pp. 150-155, Feb 2015.
- 9) **Dr K.Selvakumar**, G. Revathi and V.Senthil Murugan "Eaack- A Secure Intrusion Detection System for Manets", Advances in Natural and Applied Sciences, ISSN 1995-0772 Vol. 9(6) Special 2015, pp. 221-226, Feb 2015.
- 10) **Dr K.Selvakumar**, N. Vijayalakshmi and V.Senthil Murugan, "Implementation of DSR Protocol using Different Optimization Techniques", Advances in Natural and Applied Sciences, ISSN 1995-0772 Vol. 9(6) Special 2015, pp. 232-238, Feb 2015.

- 11) **Dr.K.Selvakumar** , C.Anbu Ananth ,” An Efficient Load Balancing Techniques for Wireless Mesh Networks,” International Journal of Engineering Research & Technology ISSN: 2278-0181, ,Vol. 3 Issue 2,February 2014.
- 12) **Dr.K.Selvakumar** , ” Civilizing Network Lifetime in MANETs Throuh DEL-CMAC Protocol,” International Journal of Computer Science &Engineering Technology ISSN: 2229-3345 ,Vol.5 Issue 4,April 2014.
- 13) **Dr.K.Selvakumar** , ” Improving the network Lifetime of MANETs through CSP routing Algorithm,” International Journal of Computer Science &Engineering Technology ISSN: 2229-3345 ,Vol.5 Issue 4,April 2014.
- 14) **Dr.K.Selvakumar**, R.Manikandan , ” Optical Scheduling For Improve Fair Resource Allocation In MANET,” International journal of Research in Information technology ISSN:2001-5569, Vol.2, No.3, March 2014.
- 15) **Dr.K.Selvakumar**, R.Manikandan ,” Energy Efficient and Resource Allocation of Clustering in Ad-Hoc Networks,” International journal of Innovative Research in Advanced Engineering ISSN:2349-2163, Vol.1, No.4, May 2014.
- 16) **Dr.K.Selvakumar**, G.Indirani ,” Performance of Swarm Based Intrusion Detection System Under Different Mobility Conditions In MANET, “ International Journal of Emerging Technology and Advanced Engineering ISSN: 2250-2459 , Vol.3, Issue 4, pp. 577-583, April 2013.
- 17) **Dr.K.Selvakumar** ,G.Indirani,” A Swarm-Based Efficient Distributed Detection System For Mobile Ad Hoc Networks(MANET),” Proc. International Journal of Parallel, Emergent and Distributed Systems(Taylor and Francis) ISSN:1744-5760 ,pp. 1-14, April 2013.
- 18) **Dr.K.Selvakumar** , G.Indirani ,” Performance of Swarm Based Intrusion Detection System Using Various Mobility Models In MANET,” Proc. International Journal of Advanced Research In Computer Science And Software Engineering , Vol.3, No.4, pp.1-9, March 2013.
- 19) **Dr.K.Selvakumar** , G.Indirani , “Performance Comparision of Two Swarm Based Intrusion Detection Systems for the Various Routing Attacks in MANET,” International of Computer Information Systems ISSN:2229-5208, Vol.6, No.3, pp.44-45, March 2013.
- 20) **Dr.K.Selvakumar** , K.Kavitha, T.Nithya, S.Sathya Bama ,” Geographic Information Based Protocol Analysis (EGMP)” , International Journal Of Inventive Engineering And Sciences ISSN:2319-9598, Vol.1, Issue 3, pp.17-22, February 2013.
- 21) **Dr.K.Selvakumar** , K.Kavitha ,” Analysing Multicast Routing Protocols with Different Mobility Models,” International Journal of Emerging Technology and Advanced Engineering ISSN: 2250-2459, Vol.3, Issue 1, pp.33-41, January 2013.

- 22) **Dr.K.Selvakumar** , K.Kavitha, T.Nithya, S.Sathya Bama ,” Zone-Based Multicast Routing protocol for Mobile Ad-Hoc Network,” International Journal of Electrical International Journal of and Electronics IEEE TSSN:4673-5301,2013.
- 23) **Dr.K.Selvakumar** G.Indirani ,” Handling Cross-Layer Attacks Using Neighbors Monitoring Scheme And Swarm intelligent in MANET,” International Journal of Computer Applications Technology and Research, Vol.2,Issue.1,pp.41-48,2013.
- 24) **Dr.K.Selvakumar** , C.Anbu Ananth ,” A cross layer based channel assignment algorithm in multi-radio multi-channel wireless mesh network,” International Journal of Computer Applications ISBN: 973-93-80872-50-B,Vol.61 no.21, Jan 2013.
- 25) **Dr.K.Selvakumar** , C.Anbu Ananth ,” Improving the performance of cross layer metrics for unfailing routing in wireless mesh network,” International Journal of Advanced Research in Computer Science and Software Engineering ISSN 2277-128X , Vol-3, Issue- 11, November 2013.
- 26) **Dr.K.Selvakumar** , C.Anbu Ananth ,” End –To – End Flow allocation and channel assignment in MC-MR wireless mesh network,” International Journal on Computer networks and Wireless Communications ISSN: 2250-3501, Vol- 3, No-6,December 2013.
- 27) **Dr.K.Selvakumar**, R.Manikandan ,”Power Optimistic with Throughput Improved Adaptive CSMA MAC Protocol Design for Wireless AD Hoc Network” International journal of Computer applications ISSN:09758887, Vol.70, No.1 ,May 2013.
- 28) **Dr.K.Selvakumar**, R.Manikandan , ” Throughput Improvement on Wireless Ad Hoc Networks using Multi – Channel Medium Access Control,” International journal of Mobile Adhoc Network , Vol.3, August2013.
- 29) **Dr.K.Selvakumar**, R.Manikandan , ” Link-Utility-Based Improved Backoff Cooperative MAC Protocol for MANET,” International Review on Computers and Software ISSN:1828-6003, Vol.8, No.7,July 2013.
- 30) **Dr.K.Selvakumar**, R.Manikandan ,” Link-Utility-Based Improved Backoff Cooperative MAC Protocol with Fair Scheduling for MANET,”Journal of Theoretical and Applied Information Technology ISSN:1992-8645, Vol.58, No.2,December 2013.
- 31) **Dr.K.Selvakumar** , G.Ramachandran , M.Mamallan,” An Enhanced in-Depth Packet Inspection based on Hierarchical Pattern Matching Algorithm,” International journal of Networking and Communication Engineering ISSN:0974-9713, Vol.4,No.14,pp.842-847, November 2012.
- 32) **Dr.K.Selvakumar** , R.Manikandan ,” An Improved Analysis of Mac IEEE 802.16 in Wireless Ad Hoc Networks,” International Journal of computer Applications ISSN:0975-8887, Vol.55, No.8,pp.23-27, October 2012.
- 33) **Dr.K.Selvakumar** , K.Kavitha, “Performance Evaluation of ODMRP and ADMR using Different Mobility Models,” International Journal of computer Applications ISSN:0975-8887, Vol.54, No.10 ,pp.35-40, September 2012.

- 34) **Dr.K.Selvakumar** , G.Indirani ,” Swarm Based Intrusion Detection and Defense Technique for Malicious Attacks in Mobile Ad Hoc Networks,” International Journal of computer Applications ISSN:0975-8887 , Vol.50,No.19,pp.1-7, July 2012.
- 35) **Dr.K.Selvakumar** , R.Madhamohan ,” An adaptive Power aware routing in MANETs,” Journal of Computing Press,NY,USA ISSN:2151-9617, Vol.4,Issue.8,pp.121-126, August 2012.
- 36) **Dr.K.Selvakumar** , R.Madhamohan ,” An Adaptive QOS-aware Routing in MANETs,” International Journal of Advanced Research In Computer Science ISSN :0976-5697, Vol.3,No.3,pp.445-449, May-June 2012.
- 37) **Dr.K.Selvakumar** , R.Madhamohan ,” Power Controlled routing in wireless ad hoc networks using cross layer approach,” Egyptian Informatics Journal, Elsevier Publications. ISSN:1110-8665, Vol.13,pp.95-101, June 2012.
- 38) **Dr.K.Selvakumar** , R.Madhamohan ,” An Energy Efficient Routing in Mobile Adhoc Networks Using Aggregate Interface Queue Length and Node Remaining Energy,” International Journal of computer Applications ISSN:0975-8887, Vol.42, No.19,pp.8-12, March 2012.
- 39) **Dr.K.Selvakumar** , R.Madhamohan ,” Multilayer Power Reduction Routing Algorithm in Wireless Sensor Networks,” International journal of information technology and engineering ISSN:2229-7367, Vol.3,pp.37-42,2012.
- 40) **Dr.K.Selvakumar** , R.Madhamohan ,” Performance Analysis of Weighted Load balanced routing protocol with Ad hoc on-demand Distance Vector,” International journal of Engineering Trends and Technology ISSN:2231-5381, Vol.3,Issue.4,pp.525-529,2012.
- 41) **Dr.K.Selvakumar** , R.Madhamohan ,” An Adaptive Power Controlled Routing in Wireless Ad Hoc Networks,” Journal of Advanced computer science and technology, Vol.1,pp.207-221,2012.
- 42) **Dr.K.Selvakumar**, R.Manikandan , S.Ezhilmathi ,” Improving The Performance Of Transmissions Using Co-Operative MAC Protocol,” International journal of Information technology and Engineering ISSN:2229-7367, Vol.3, No.1-2,pp.13-18,2012.
- 43) **Dr.K.Selvakumar**, R.Manikandan , K.Arulmani ,” Enhancing The Performance Of MANET through MAC layer design,” International journal of Information technology and Engineering , Vol 1, No.1, Feb 2012.
- 44) **Dr.K.Selvakumar**, R.Manikandan ,”Throughput Performance of ALOHA and CSMA MAC protocol in power for Wireless Ad Hoc Networks,” International journal of Computer and Information technology ISSN:2229-0764, Vol.2, No.4, July 2012.

- 45) **Dr.K.Selvakumar**, R.Saminathan, U.Padmavathi ,” An Efficient Method For Preventing Mobile Tracing Using Motion-Mix Over Mobile Wireless Nodes,” International journal of wireless communication ISSN:0974-9756, Vol.3,No.12,pp.902-907, August 2011.
- 46) **Dr.K.Selvakumar** , K.Kavitha , P.Gokila,” Analysis Of Power-Aware And Stability Based On-Demand Routing Protocols For Mobile Ad Hoc Network,” International journal of wireless communication ISSN:0974-9756, Vol.3,No.11,pp.821-827, August 2011.
- 47) **Dr.K.Selvakumar**, R.Saminathan ,” TRUCE-An Adaptive Trust Management Algorithm Over MANET for Service –Based Mobile Computing Environment,” Information Security Journal:A Global Perspective:(Taylor& Francis Group,LLC) ISSN:1939-3555, Vol.3,pp.173-182,2011.
- 48) **Dr.K.Selvakumar**, R.Saminathan,” PROFIDES-Profile based Intrusion Approach Using Traffic Behavior over Mobile Ad Hoc Network,” International Journal of computer Applications ISSN:0975-8887, Vol.7,No.14,pp.21-25, October 2010.
- 49) **K.Selvakumar**, R.Krishnamoorthy ,” Maximum Diversity and Full Rank Space-Time Block Code Based on Orthogonal Polynomials,” Journal of Applied Sciences ISSN:1812-5654, Vol.8,No.3,pp.534-539,2008.
- 50) **K.Selvakumar**, R.Krishnamoorthy ,” Channel Estimation for Orthogonal Polynomial Based Space-Time Block Coded CDMA 2000 in Multipath Fading Channels,” Asian Journal of Information Technology ISSN:1682-3915, Vol.5,No.8,pp.906-911,2006.
- 51) **K.Selvakumar**, R.Krishnamoorthy ,” Coding gain analysis of orthogonal polynomial based Space-time block code,” Journal of Theoretical And Applied Information Technology, Asian Research Publication Network ISSN:1992-8613, Vol.3,No.1,pp.12-17, June-Dec 2006.