

Select List of Research Papers Involving NetSim				
SI No	Paper / Article Name	Journal / Publication	Date	Authors
1	A Review of Simulation of Telecommunication Networks: Simulators, Classification, Comparison, Methodologies, and Recommendations	Cyber Journals: Multidisciplinary Journals in Science and Technology, Journal of Selected Areas in Telecommunications (JSAT), March Edition, 2011	Mar-11	Nurul I. Sarkar, Senior Member, IEEE and Syafnidar A. Halim
2	Improving MAC Layer Performance in WLAN	B Tech Thesis, NIT Rourkela	Mar-12	Nitish Kumar Panigrahy, Manat Kanher
3	An Optimization Technique for Improved VoIP Performance over Wireless LAN	Journal of Networks, Vol.7 No. 3	Mar-12	Tamal Chakraborty, Atri Mukhopadhyay, Suman Bhunia, Iti Saha Misra, Salil K. Sanyal
4	Network Simulation Tools Survey	International Journal of Advanced Research in Computer and Communication Engineering Vol. 1, Issue 4, June 2012	Jun-12	Mrs. Saba Siraj , Mr. Ajay Kumar Gupta , Mrs Rinku-Badgujar
5	Design and Implementation of LRC and CRC algorithms in Netsim	International Journal of Engineering Research and Applications. Vol. 2, Issue 3,	Jun-12	Rakesh S
6	Implementation of longitudinal redundancy check and cyclic redundancy check algorithms using NetSim	International Journal of Advances in Computer Networks and its Security	Jul-12	Dr. M. Sidappa, Rakesh S, Soumya M N
7	Video Traffic Architecture in NetSim	TETCOS White Paper	Jul-12	Swathi Pathak (IIT Kanpur), Shashikant Suman, Pranav Viswanathan
8	Performance Evaluation of IEEE 802.15.4 based Wireless Sensor Networks	TETCOS White Paper	Jul-12	Tarun Krishna (IIT Madras), Shashikant Suman, Pranav Viswanathan
9	A Comprehensive Overview on Different Network Simulators	International Journal of Engineering and Technology (IJET)	Mar-13	Christhu raj M.R., Namrata marium Chacko, John major, Shibin. D
10	Wireless Sensor Network Simulation Using NetSim	Electronics For You;Apr2013, Vol. 1 Issue 12, p106	Apr-13	Tarun Krishna, Shashikant Suman, Pranav Viswanathan
11	Estimation of Carrier Sense Range and its effect on Performance of IEEE 802.15.4 Sensor Networks	B Tech Thesis, IIT Madras	May-13	Tarun krishna
12	Performance Evaluation of Multi-hop Wireless Sensor Networks	TETCOS White Paper	Jul-13	Vikas Neelam (IIT Madras) Shashikant Suman, Pranav Viswanathan
13	A Review: Wireless Sensor Networks and Its Application, Platforms, Standards and Tools	International Journal of Computer Trends and Technology (IJCTT) Volume 4 Issue 8 August 2013	Aug-13	K.Sarammal, R.A.Roseline
14	ZigBee- based Wireless Electronic Scale and its Network Performance Analysis for the Application of Smart Billing System in Super Markets	Indian Journal of Science and Technology, Vol 7(3), 352–359,	Mar-14	R. Sivakumar, A. Maheswari and P. Pushpa
15	Performance EvaluationBased on Energy Detection and Operational Interval of Spectrum Sensing In Cognitive Radio	Journal of Computer Science and Information Technology March 2014, Vol. 2, No. 1, pp. 65-74	Mar-14	Shalini, V S Jadhav
16	Performance EvaluationBased on Energy Detection and Operational Interval of Spectrum Sensing In Cognitive Radio	Journal of Computer Science and Information Technology, Vol. 2, No. 1, pp. 65-74	Mar-14	Shalini, V.S Jadhav
17	Securing the Femtocells: Anonymity and Location Privacy	Indian Journal of Science and Technology, Vol 7(S4), 46–51	Apr-14	Marc del Valle, B. Manikandan and V. S. Shankar Sriram,
18	Comparative study of DSR, AODV Routing Protocol for WPAN Using NetSim Simulator	International Journal of Advanced Research in Computer Science. Volume 5, No. 4,	Apr-14	Padmalaya Nayak, Saraswati Bhakare, Nazia Tabassum
19	A Study on Large Scale Network Simulators	(IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 5 (6) , 2014	May-14	Gayatry Borboruah, Gypsy Nandi
20	A Survey on Protocols, Platforms and Simulation Tools for Wireless Sensor Networks	International Journal of Energy, Information and Communications. Vol.5, Issue 6 (2014)	May-14	Mohammed Abo-Zahhad*, Osama Amin, Mohammed Farrag and Abdelhay Ali
21	Collusion Based Realization of Trust and Reputation Models in Extreme Fraudulent Environment over Static and Dynamic Wireless Sensor Networks	International Journal of Distributed Sensor Networks Volume 2014 (2014), Article ID 672968, 9 pages	May-14	Vinod Kumar Verma, Surinder Singh, and N. P. Pathak,
22	An Enerby Efficient and reliable clustering algorithm for wireless sensor actor network	International Journal of Computer Engineering and Applications, Volume VI, Issue III,	Jun-14	Vijay M. Galshetwar, Prof. Amutha Jeyakumar, Madhuri R. Tayade
23	Verification of MAC Scheduling algorithms in NetSim	TETCOS White Paper	Jul-14	Aditya Tiwari (IIT Kgp) Shashikant Suman, Pranav Viswanathan
24	Development of MAC and PHY layers for 802.11 ac based WLAN Protocols in NetSim	B Tech Thesis, BITS Hyderabad	Jul-14	Kishore Koval
25	Network Simulators for next generation networks: An overview	International Journal of Mobile Network Communications & Telematics (IJMNET) Vol. 4, No.4,August 2014	Aug-14	Monika , Akhil Kaushik and Mani Shekhar

26	Comparison of Routing Protocols in WSN using NetSim Simulator: LEACH Vs LEACH-C	International Journal of Computer Applications (0975 – 8887)	Nov-14 Padmalaya Nayak, Pallavi Shree
27	Performance Evaluation of IEEE 802.22 WRAN Based on Cognitive Radio through NETSIM	International Journal of Emerging Technology and Advanced Engineering, Volume 4, Issue 11, November 2014	Nov-14 Shalini, V. S Jadhav, Raju Wadekar
28	Reliability Evaluation of Mobile Ad-hoc Networks in Case of Node Failure	IJCSNT Vol.3, No.1, 2014	Dec-14 Anil Choudhary, O.P Roy, T. Tuithung
29	Comparison of TCP Congestion Control Algorithms using NetSim™	TETCOS White Paper	Dec-14 Sai Rohan (BITS Pilani), Shashikant Suman, Pranav Viswanathan
30	Comparison of reactive routing protocols with Random way point and random walk mobility model for MANET using NetSim Simulator	International Conference on Computer Communication and Informatics (ICCCI -2015), Jan. 08 – 10, 2015, Coimbatore, INDIA	Jan-15 Padmalaya Nayak
31	Analysis of DSR protocol for MANET under black-hole and sink-hole attack using NetSim Simulator	IJECCCT, Volume 5 Issue ICICC (May 2015)	Feb-15 Padmalaya Nayak, B. Labanya, V Bhavani,
32	Impact of Black-hole and Sink-hole Attack on LEACH-C protocol in WSN	ICACNI, KIT Bhubaneswar	Feb-15 Padmalaya Nayak, Bhabani V, B. Labanya
33	Analysis of Random Way Point and Random Walk Mobility Model for Reactive Routing Protocols for MANET Using NetSim Simulator	2015 Third International Conference on Artificial Intelligence, Modelling and Simulation 978-1-4673-8675-3/15 \$31.00 © 2015 IEEE	Mar-15 Padmalaya Nayak, Pallavi Shree
34	Intrusion Detection Algorithm for Mitigating Sinkhole Attack on LEACH Protocol in Wireless Sensor Networks	Hindawi. Journal of sensors, Articles in Press	Mar-15 Ranjeeth Kumar Sundararajan, Umamakeswari Arumugam
35	A Comprehensive Review of Simulation Tools for Wireless Sensor Networks (WSNs)	Journal of Wireless Networking and Communications 2015, 5(1): 19-47	May-15 Anand Nayyar, Rajeshwar Singh
36	Quality Analysis of Cognitive Radio Networks based on Modulation Techniques	2015 International Conference on Computational Intelligence and Communication Networks	Jun-15 JYOTSHANA KANTI, ASHISH BAGWARI, GEETAM SINGH TOMAR
37	Reliability Modeling of a Cluster Based Distributed Mobile Ad-hoc Network	International Journal of Computing and Digital Systems ISSN (2210-142X) Int. J. Com. Dig. Sys. 4, No.3	Jul-15 Anil Choudhary, O. P. Roy, and T. Tuithung
38	Dynamic spectrum access analysis in cognitive radio based wireless regional area network	http://ieeexplore.ieee.org/abstract/document/7727010/	Nov-16 Jayant Pawar, Prashant Ingole
39	Clustering Algorithm for Wireless Sensor Networks using Event Driven Iterative Clustering Approach	National Conference on innovations and Emerging Technologies for Future Smart Cities	Apr-17 Akhila I. S, Subaselvi, S
40	Performance Evaluation of Routing Protocol in Internet of Things using Netsim	International Journal of Advanced Research in Computer Science. Volume 8, No. 3, March – April 2017	Apr-17 Gurpreet Singh, Amandeep Kaur Cheema
41	Performance Evaluation of DSR, OLSR and ZRP using NETSIM Simulator	International Journal of Advanced Research in Computer Science. Volume 8, No. 3, March – April 2017	Apr-17 Gurpreet Singh, Rajat Khurana
42	Energy Efficient Recursive Clustering Approach for Wireless Sensor Networks	International Journal of Electronics, Electrical and Computational System (IJE ECS). Vol 6, Issue 5	May-17 Akhila I. S, Subaselvi, S
43	Network performance & Quality of service in data networks involving spectrum utilization techniques	PhD Thesis. School of Engineering and Sustainable Development Faculty of Technology. De Montfort University. UK	May-17 Hassan Ali Fadel Hassan Mohammed Darwish
43	Event Driven Recursive Clustering Algorithm for Wireless Sensor Networks	International Conference on Innovations, Embedded and Communication Systems	Jun-17 Akhila I. S, Subaselvi, S
44	Improved Performance of DSR Protocol in Node Failure in MANET Using Netsim	i-manager's Journal on Information Technology, 6(3)	Jun-17 Singh, G. and Khurana, R
45	Performance Analysis of MAC Scheduling in Femtocell for Real Time Applications with QoS	Proceedings of the IEEE 2017 International Conference on Computing Methodologies and Communication (ICCMC)	Jul-17 Anshu sharma, Mahendra V, Kartik S
46	Energy Efficient Clustering Algorithm for Multi-Hop Wireless Sensor Network Using Type-2 Fuzzy Logic	IEEE SENSORS JOURNAL, VOL. 17, NO. 14, JULY 15, 2017	Jul-17 Padmalaya Nayak, Member, IEEE, and Bhavani Vathasavai
47	Energy Efficient Intrusion Detection System for Mitigating Sinkhole Attack in Wireless Sensor Networks	International Journal of Pure and Applied Mathematics, Volume 115 No. 7 2017, 231-238	Jul-17 Ranjeeth Kumar, Surendar, Umamakeswari. SASTRA University, School of Computing, Thanjavur, India
48	Analysis of Sinkhole Attack in LEACH based wireless Sensor Network	International Journal of Pure and Applied Mathematics, Volume Volume 116 No. 24 2017, 185-197	Aug-17 S.Ranjeeth Kumar, M.Thalaimalaichamy, .Umamakeswari
49	Cross Layer Based QoS Platform for Multimedia Transmission in MANET	2017 11 th International Conference on Intelligent Systems and Control (ISCO)	Aug-17 Mamata Rath, Bibudhendu Pati, Binod Kumar Pattanayak

50	Detection of primary user emulation attack in cognitive radio environment	International Conference on Informatics, Electronics and Vision & 2017 7th International Symposium in Computational Medical and Health Technology (ICIEV-ISCMHT)	Sep-17	Khaled Mohammed Saifuddin, Kazi Fahid Reza, Masud An Nur Islam Fahim, Sk. Shariful Alam
51	Hello Messaging based Aodv Routing Protocol and Its Simulation	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12	Nov-17	Abhishek Prabhakar, Amod Tiwari, Vinay Kr. Pathak
52	A low cost IoT based crowd management system for Public Transport	Proceedings of the International Conference on Inventive Computing and Informatics (ICICI 2017) IEEE Xplore Compliant - Part Number: CFP17L34-ART, ISBN: 978-1-5386-4031-9	Nov-17	Sachin Vidyasagar, Aditya Varma, Hari Charan, S. Renuga Devi, Rajesh A.
53	Performance analysis of cognitive radio: Netsim viewpoint	Conference: 2017 3rd International Conference on Electrical Information and Communication Technology (EICT)	Dec-17	Khaled Mohammed Saifuddin, Abu Shakil Ahmed, Kazi Fahid Reza, Sharmina Rahman
54	Performance appraisal of Wireless Energy Harvesting in IoT	IEEE, 2017 3rd International Conference on Electrical Information and Communication Technology (EICT)	Dec-17	Shishir Mallick; Al-Zadid Sultan Bin Habib; Abu Shakil Ahmed; Sk. Shariful Alam
55	Improved Performance of DSR Protocol in Node Failure in MANET Using Netsim	i-manager's Journal on Information Technology, 6(3), 20-24	Feb-18	Khurana,R., Singh,G.,
56	eNodeB configuration,performance and fault management for coverage optimization.	Proceedings of the 2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018) IEEE Conference Record # 42487; IEEE Xplore ISBN:978-1-5386-0965-1	Mar-18	Ankita Lottlikar, Sasikumar Periyasamy
57	Analysis of Group Mobility and File Mobility Model for Routing Protocols in Manet Using NETSIM	i-manager's Journal on Information Technology, 7(2), 1-7.	Mar-18	Khurana,R., Singh,G., and Sachdeva,M.
58	Performance Investigation of WAVE Network under Influence of Highway Mobility	2018 2nd International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech). 978-1-5386-5550-4/18 ©2018 IEEE	May-18	Harsukhpreet Singh, Roop Pahujar, Surekha Bhanot
59	Event Detection and Information Passing Using LEACH Protocol in Wireless Sensor Networks	Wireless Personal Communications August 2018, Volume 101, Issue 3, pp 1703–1714	Aug-18	Ranjeeth Kumar Sundararajan, Umamakeswari Arumugam
60	Analysis of Routing Attacks on RPL based 6LoWPAN Networks	International Journal of Grid and Distributed Computing Vol 11, No 8 (2018), pp 43-56	Sep-18	Abhishek Verma, Virender Ranga
61	Current research on Internet of Things (IoT) security: A survey	Science Direct. https://doi.org/10.1016/j.comnet.2018.11.025	Dec-18	Mardiana binti Mohamad Noor, Wan Haslina Hassan
62	A Reputation based Weighted Clustering Protocol in VANET: A Multi-objective Firefly Approach	Springer. Mobile Networks and Applications. The Journal of SPECIAL ISSUES on Mobility of Systems, Users, Data and Computing. ISSN: 1383-469X (Print) 1572-8153 (Online)	Apr-19	Christy Jackson Joshua, Rekha Duraisamy, Vijayakumar Varadarajan
63	Communication Architecture Framework for A Future Smart Community	Proceedings of the Second International Conference on Intelligent Computing and Control Systems (ICICCS 2018) IEEE Xplore Compliant Part Number: CFP18K74-ART; ISBN:978-1-5386-2842-3	Mar-19	Mohan. K Aparna, P Sivraj