References

[1]. http://www.antd.nist.gov/wahn_mahn.shtml

[2]. https://www.ietf.org/rfc/rfc2501.txt

[3]. T. R. Andel and A. Yasinac, "On the Credibility of Manet Simulations," Computer, vol. 39, no. 7, July, 2006, pp. 48-54.

[4]. D. Cavin, Y. Sasson and A. Schiper, "On the Accuracy of Manet Simulators," in Proc. of 2nd ACM Int'l Workshop Principles of Mobile Computing, ACM Press, 2002, pp. 38-43.

[5] S. R. Das, R. Castaneda, J. Yan and R. Sengupta, "Comparative Performance Evaluation of Routing protocols for Mobile, Ad hoc Networks," in Proc. of Seventh international Conference on Computer Communication and Networks (IC3N), Lafayette, LA, October 1998, pp. 153-161.

[6] S. R. Das, R. Castaneda and J. Yan, "Simulation-based performance evaluation of routing protocols for mobile ad hoc networks," Journal of Mobile Networks and Applications, Volume 5, pp. 179–189, 2000.

[7] J. Broch, D. A. Maltz, D. B. Johnson, Y. Hu and J. Jetcheva, "A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols," in Proc. of the Fourth Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'98), October 25–30, 1998, Dallas, Texas, USA.

[8] X. Hong, M. Gerla, G. Pei and C. Chiang, "A group mobility model for ad hoc wireless networks," in Proc. of the 2nd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems, MSWiM '99, ACM New York, NY, USA, pp. 53-60.

[9] S. Lee, W. Su, J. Hsu, M. Gerla and R. Bagrodia, "A performance comparison study of ad hoc wireless multicast protocols," in Proc. of Nineteenth Annual Joint Conference of the IEEE Computer and Communications Societies, INFOCOM 2000, pp. 565-574.

[10] A. Nasipuri, R. Castaneda and S. R. Das, "Performance of Multipath Routing for On Demand Protocols in Mobile Ad Hoc Networks," Journal of Mobile Networks and Applications, Volume 6, pp. 339–349, 2001,Kluwer Academic Publishers.

[11] T. Clausen, P. Jacquet and L. Viennot, "Comparative study of CBR and TCP performance of MANET routing protocols," In workshop on Broadband Access, INRIA Lab, France, Sep. 2002.

[12] C. L. Barrett, M. Drozda and M.V. Marathe, "A comparative experimental study of media access protocols for wireless radio networks," Wireless Communications and Networking Conference (WCNC 2002), 17-21 Mar 2002, pp. 405 – 411.

[13] B. Chen and C. H. Chang, "Mobility Impact on Energy Conservation of Ad Hoc Routing Protocols," SSGRR 2003, Italy, Jul. 28-Aug. 2, 2003.

[14] T. Kunz, "Reliable Multicasting in MANETs," Contract Report, DRDC-Ottawa, July 2003.

[15] C. Gomez, X. Marchador, V. Gonzalez and J. Paradells, "Multilayer analysis of the influence of mobility models on TCP flows in AODV ad-hoc networks," in Proc. of the 14th IEEE Workshop on Local and Metropolitan Area Networks (LANMAN), 2005, 18 Sept. 2005, pp 1-6.

[16] H. Liao, Y. Ting, C. Chen and C. Yang, "A Performance Comparison of Ad Hoc Routing Protocols Based on Ant Mobility Model," Information Technology Journal, Vol. 4, No. 3, 2005, pp. 278-283.

[17] E. Atsan and O. Ozkasap, "A Classification and Performance Comparison of Mobility Models for Ad Hoc Networks," Ad-Hoc, Mobile, and Wireless Networks, Lecture Notes in Computer Science Volume 4104, 2006, pp 444-457.

[18] S. Marinoni and H. H. Kari, "Ad hoc routing protocol's performance: a realistic simulation based study," Telecommunication Systems, December 2006, Volume 33, Issue 1-3, pp 269-289.

[19] A. A. Pirzada, M. Portmannt and J. Indulska, "Performance Comparison of Multi-Path AODV and DSR Protocols in Hybrid Mesh Networks," in Proc. of 14th IEEE International Conference on Networks (ICON), Sept. 2006, pp. 1-6.

[20] G. Jayakumar and G. Gopinath, "Performance Comparison of Two On-demand Routing Protocols for Ad-hoc Networks based on Random Way Point Mobility Model," American Journal of Applied Sciences, Vol. 5, Issue 6,2008, pp. 659-664.

[21] G. Jayakumar and G. Gopinath, "Performance comparison of MANET protocols based on Manhattan Grid Mobility Model," Journal of Mobile Communication, Vol. 2, Issue 1, 2008, pp. 18-26.

[22] N.Karthikeyan, V. Palanisamy and K. Duraiswamy, "Performance Comparison of Broadcasting methods in Mobile Ad Hoc Network," International Journal of Future Generation Communication and Networking, Vol. 2, No. 2, June 2009, pp. 47-58.

[23] A. Tuteja, R. Gujral and S. Thalia, "Comparative Performance Analysis of DSDV, AODV and DSR Routing Protocols in MANET using NS2," in Proc. of International Conference on Advances in Computer Engineering (ACE), 20-21 June 2010, pp. 330 – 333.

[24] S. K. Debnath, F. Ahmed and N. Islam, "Performance Evaluation of Unicast and Broadcast Mobile Ad-hoc Networks Routing Protocols," International Journal of Computer Science and Information Security (IJCSIS), Vol. 7, No. 1, 2010, pp. 40-46.

[25] S. Barakovi and J. Barakovi, "Comparative Performance Evaluation of Mobile Ad Hoc Routing Protocols," MIPRO 2010, May 24-28, 2010, Opatija, Croatia, 518-523.

[26] S. Mohapatra and P. Kanungo, "Comparative Performance Analysis of MANET Routing Protocols Using NS2 Simulator," Computational Intelligence and Information Technology, Communications in Computer and Information Science, Volume 250, 2011, pp 731-736.

[27] D. Singh, A. K. Maurya and A. K. Sarje, "Comparative Performance Analysis of LANMAR, LAR1, DYMO and ZRP Routing Protocols in MANET using Random Waypoint Mobility Model," in Proc. of 3rd International conference on Electronics Computer Technology (ICECT), 8-10 April 2011, pp. 62-66.

[28] I. I. Saada and R. Zaghal, "MANET Routing Protocols: Comparative Study," Journal of AlQuds Open University for Research and Studies, Vol. 30, Part 1, June 2013, pp. 9-26.

[29] M. A. Rahman and A. H. Al Muktadir, " The impact of Data send rate, node velocity and transmission range on QoS parameters of OLSR and DYMO MANET routing

protocols," in Proc. Of 10th International Conference on Computer and information technology, 2007, pp. 1-6.

[30] B. Venkatalakshmi and S. Shanmugavel, "Transmission range effects of On-Demand Multicast Routing Protocol multicast communication for MANET," WRI World Congress on Computer Science and Information Engineering, 2009, Vol. 6, pp. 332-337.

[31] M. B. Yassein, Q. Abuein, M. Shatnawi and D. Alzoubi, "Analytical Study of the Effect of Transmission Range on the Performance of Probabilistic Flooding Protocols in MANETs," Ubiquitous Computing and Communication Journal, 2009, Vol.3, No.2, pp. 20-24.

[32] C. K. Nagpal, M. Kaur, S. Gupta and B. Bhushan, "Impact of variable transmission range on MANET performance," International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC), 2011, Vol.2, No.4, pp. 59-66.

[33] M. Das, B. K. Panda and B. Sahu, "Performance analysis of effect of transmission power in mobile ad hoc network," in Proc. of ninth International Conference on Wireless and Optical Communications Networks (WOCN), 2012.

[34] V. Lalitha and R. S. Rajesh, "The Impact of Transmission Power on the Performance of MANET Routing Protocols," IOSR Journal of Engineering (IOSRJEN), 2013, Vol. 3, Issue 2, pp. 34-41.

[35] J. Grover and P. Kaur, "Impact of Variable Transmission Range and Scalability With respect To Mobility and Zone Size On Zone Routing Protocol Over Manets," Int. Journal of Engineering Research and Applications, 2013, Vol. 3, Issue 5, pp.1639-1646.

[36] S. Xu , S. Papavassiliou and L. Zakrevski, " Fault-tolerant cluster-based routing approach in wireless mobile ad hoc networks," in Proc. of IEEE VTS 54th Conference on Vehicular Technology, Volume: 4 ,Page(s): 2613 – 2617, 2001.

[37] Y. Xue and K. Nahrstedt, "Providing fault-tolerant ad hoc routing service in adversarial environments," Wireless Personal Communications, 29, pp. 367–388, 2004.

[38] G. Anastasi, A. Bartoli and F. L. Luccio," Fault-Tolerant Support for Reliable Multicast in Mobile Wireless Systems: Design and Evaluation," Wireless Networks, Volume 10, Issue 3, pp 259-269, May 2004.

[39] R. Melamed, I. Keidar and Y. Bare, "Octopus: a fault-tolerant and efficient ad-hoc routing protocol," in Proc. of 24th IEEE Symposium on Reliable Distributed Systems, Page(s) 39 - 49, OCT 2005.

[40] B. J. Oommem and L. Rueda, "Stochastic learning-based weak estimation of multinomial random variables and its applications to pattern recognition in non-stationary environments," Pattern Recognition, 39, pp. 328–341, 2006.

[41] W. Wu, J. Cao and J. Yang , "A fault tolerant mutual exclusion algorithm for mobile ad hoc networks," Journal of Pervasive and Mobile Computing , Volume 4, Issue 1,Pages 139-160, Elsevier Science Publishers , February 2008.

[42] Y. Qin and K. L. Pang, "A Fault-Tolerance Cluster Head Based Routing Protocol for Ad Hoc Networks," in Proc. of IEEE Vehicular Technology Conference, Page(s): 2472 – 2476, May 2008.

[43] O. Riganelli, R. Grosu, S.R. Das, C.R. Ramakrishna and S.A. Smolka., "Power Optimization in Fault-Tolerant Mobile Ad Hoc Networks," in Proc. of 11th IEEE Conference on High Assurance Systems Engineering Symposium, Page(s): 362 - 370 ,Dec 2008.

[44] Z. Chen and J. Dongarra, "Algorithm-Based Fault Tolerance for Fail-Stop Failures," IEEE Transaction on Parallel and Distributed Systems, Vol.19, Issue.12, Pages- 1628-1641, Dec. 2008.

[45] J. Zhou and C. Xia, "A Location-Based Fault-Tolerant Routing Algorithm for Mobile Ad Hoc Networks," in Proc. of WRI International Conference on Communications and Mobile Computing, Volume 2, Page(s) 92 – 96, Jan 2009.

[46] Y. Gong and A. S. Fukunaga, "Fault tolerance in distributed genetic algorithms with tree topologies," IEEE Congress on Evolutionary Computation, Page(s): 968 – 975, May 2009.

[47] M. Khazaei and R. Berangi, "A multi-path routing protocol with fault tolerance in mobile ad hoc networks," in Proc. of 14th International CSI Computer Conference, Page(s): 77 – 82, Oct. 2009.

[48] R.E.N. Moraes, C.C. Ribeiro and C. Duhamel, "Optimal solutions for fault-tolerant topology control in wireless ad hoc networks," IEEE Transactions on Wireless Communications, Volume 8, Issue 12, Page(s): 5970 - 5981 ,December 2009.

[49] B. Thallner, H. Moser and U. Schmid, "Topology control for fault-tolerant communication in wireless ad hoc networks," Wireless Networks, Volume 16, Issue 2, pp 387-404 , February 2010.

[50] R. S. Shaji, R. S. Rajesh and B. Ramakrishnan, "SFUSP: A Fault-tolerant Routing Scheme for path establishment among Mobile Devices in Pervasive Spaces," Journal of Computing, Volume-2, Issue 11, ISSN 2151 – 9617, Nov.2010.

[51] R. Tuli and P. Kumar ," The Design and Performance of a Check pointing Scheme for Mobile Ad Hoc Networks," Advances in Parallel Distributed Computing Communications in Computer and Information Science, Volume 203, pp 204-212, 2011.

[52] L. C. Llewellyn, K. M. Hopkinson and S. R. Graham, "Distributed Fault-Tolerant Quality of Wireless Networks," IEEE Transactions On Mobile Computing, Vol. 10, No. 2, February 2011.

[53] S. Chandrasekaran, S. Udhayakumar, U. M. Bharathy and J. K. Jain, "Trusted Fault Tolerant Model of MANET with Data Recovery," in Proc. of 4th IEEE International Conference on Intelligent Networks and Intelligent Systems (ICINIS), Page(s):21-24, 2011.

[54] S. Singh, N. Rajpal and A. K. Sharma, "K-fault tolerant in Mobile Ad Hoc Network under cost constraint," in Proc. of 3rd International Conference on Electronics Computer Technology (ICECT) , Volume -6 ,Page(s) 368 - 372 , April 2011.

[55] R. E. Ahmed, "A Fault-Tolerant Routing Protocol for Mobile Ad Hoc Networks," Journal of Advances in Information Technology, VOL. 2, no.2, May 2011.

[56] S. Ruozi, W. Yue, Y. Jian, S. Xiuming and R. Yong, "Topology control algorithm using fault-tolerant 1-spanner for wireless ad hoc networks," Tsinghua Science and Technology", Volume: 17, Issue: 2, Page(s): 186 -193 , April 2012.

[57] O. Adeluyi, J. Lee, "SMiRA: A bio-inspired fault tolerant routing algorithm for MANETs," in Proc. of International Conference on ICT convergence (ICTC), Page(s): 78 – 84, Oct.2012.

[58] A. Meissner, T. Luckenbach, T. Risse, T. Kirste and H. Kirchner, "Design Challenges for an Integrated Disaster Management Communication and Information System," The First IEEE Workshop on Disaster Recovery Networks (DIREN 2002), collocated with IEEE INFOCOM 2002, New York.

[59] I. Stepanov, J. Hahner, C. Becker, J. Tian and K. Rothermel, "A Meta-Model and Framework for User Mobility in Mobile Networks," in Proc. of the 11th International Conference on Networking 2003 (ICON 2003), pp. 231-238.

[60] J. Kraaier and U. Killat, "Calculating Mobility Parameters for a Predefined Stationary User Distribution," in Proc. of the 12th IEEE Int. Conf. on Networks (ICON 2004), pp. 41-45.

[61] M. Kim, D. Kotz and S. Kim, "Extracting a mobility model from real user traces," in Proc. of the IEEE INFOCOM 2006, pp. 1-13.

[62] M. Mecella, T. Catarci, M. Angelaccio, B. Buttarazzi, A. Krek and S. Dustdar, "WORKPAD: an adaptive peer-to-peer software infrastructure for supporting collaborative work of human operators in emergency/disaster scenarios," in Proc. of the international symposium on collaborative technologies and systems (CTS 2006), pp. 173-180.

[63] T. Catarci, M. de Leoni, A. Marrella, M. Mecella, B. Salvatore, G. Vetere, S. Dustdar, L. Juszczyk and A. Manzoor, H. Truong, "Pervasive Software environments for supporting disaster responses," In IEEE Internet computing, Volume 12, Issue 1, 2008, pp. 26-37.

[64] H. Jang, Y. Lien and T. Tsai, "Rescue information system for earthquake disasters based on MANET emergency communication platform," in Proc. of the 2009 International conference on wireless communications and mobile computing (IWCMC 2009), pp. 623-627.

[65]. T. Clausen, P. Jacquet, A. Laouiti, P. Minet, P. Muhlethaler, A. Qayyum and L. Viennot, "Optimized Link State Routing Protocol," Internet Engineering Task Force (IETF) draft, March, 2002. Available at http://www.ietf.org/internet-drafts/draftietf-manet-olsr-06.txt.

[66]. C. E. Perkins and P. Bhagwat, "Highly dynamic Destination-Sequenced Distance-Vector routing (DSDV) for mobile computers," in Proc. of the conference on

Communications architectures, protocols and applications (SIGCOMM '94). ACM, New York, NY, USA, pp. 234-244.

[67]. P. Guangyu, M. Gerla and C. Tsu-Wei, "Fisheye state routing: a routing scheme for ad hoc wireless networks," in Proc. of ICC 2000. 2000 IEEE International Conference on Communications, New Orleans, LA, 2000, pp. 70 – 74.

[68]. G. Pei, M. Gerla and X. Hong, "LANMAR: landmark routing for large scale wireless ad hoc networks with group mobility," in Proc. of the 1st ACM international symposium on Mobile ad hoc networking & computing (MobiHoc 2000). IEEE Press, Piscataway, NJ, USA, pp. 11-18.

[69]. C. E. Perkins and E. M. Royer, "Ad hoc On-Demand Distance Vector Routing," in Proc. of the 2nd IEEE Workshop on Mobile Computing Systems and Applications, New Orleans, LA, February 1999, pp. 90-100.

[70]. D. B. Johnson, D. A. Maltz and J. Broch, "DSR: the dynamic source routing protocol for multihop wireless ad hoc networks," In Ad hoc networking. Addison-Wesley Longman Publishing Co., Inc., Boston, MA, USA, pp. 139-172.

[71]. I. D. Chakeres and C. E. Perkins. "Dynamic MANET on demand (DYMO) routing protocol," http://moment.cs.ucsb.edu/pub/draft-ietf-manet-dymo-00.html, October 2006

[72]. Z. J. Haas, M. R. Pearlman and P. Samar, "The Zone Routing Protocol for Ad hoc networks," Available at https://tools.ietf.org/html/draft-ietf-manet-zone-zrp-04, July 2002.

[73]. Y. B. Ko and N. H. Vaidya, "Location-Aided Routing in mobile Ad hoc networks," in Proc. of ACM/IEEE MobiCom, October 1998, pages 66-75.

[74]. Y. Xue and K. Nahrstedt, " Fault tolerant routing in mobile ad hoc networks," Wireless Communications and Networking, WCNC 2003, pp. 1174-1179.

[75]. F. Bai and A. Helmy, "A survey of mobility modeling and analysis in wireless ad hoc networks," In Wireless Ad Hoc and Sensor Networks, Kluwer, Dordrecht, 2004.

[76]. T. Camp, J. Boleng and V. Davies, "A Survey of Mobility Models for Ad Hoc Network Research," Wireless Communication & Mobile Computing (WCMC): Special issue on Mobile Ad Hoc Networking: Research, Trends and Applications, vol. 2, no. 5, 2002, pp. 483-502.

[77]. C. Bettstetter, H. Hartenstein and X. P´erez–Costa, "Stochastic Properties of the Random Waypoint Mobility Model," ACM/Kluwer Wireless Networks, Special Issue on Modeling & Analysis of Mobile Networks, 2003, pp. 1-34.

[78]. B. Liang and Z. J. Haas, "Predictive Distance-Based Mobility Management for PCS Networks," in Proc. of IEEE Information Communications Conference (INFOCOM 1999), Apr. 1999.

[79]. F. Bai, N. Sadagopan and A. Helmy, "Important: a framework to systematically analyze the impact of mobility on performance of routing protocols for ad hoc networks," in Proc. of IEEE Information Communications Conference (INFOCOM 2003), San Francisco, Apr. 2003.

[80]. X. Hong, M. Gerla, G. Pei and C.C. Chiang, "A group mobility model for ad hoc wireless networks," in Proc. of ACM International Workshop on Modeling, Analysis, and Simulation of Wireless and Mobile Systems (MSWiM), August 1999.

[81]. NS2, Available at http://www.isi.edu/nsnam/ns.

[82]. Qualnet, Available at http://web.scalable-networks.com/content/qualnet.

[83]. X. Zeng, R. Bagrodia and M. Gerla, "GloMoSim A Library for Parallel Simulation of Large-Scale Wireless Networks," in Proc. of the 12th ACM Workshop on Parallel and Distributed Simulation, Canada, 1998, pp. 154-161.

[84] I. Khan and A. Qayyum, "Performance evaluation of AODV and OLSR in highly fading vehicular ad hoc network environments," in Proc. of 13th IEEE International Multitopic Conference INMIC 2009, 14-15 Dec. 2009, p.p. 1-5.

[85] J. Haerri, F Filali and C Bonnet, "Performance comparison of AODV and OLSR in VANETs urban environments under realistic mobility patterns," in Proc. of the 5th IFIP mediterranean ad-hoc networking workshop, 2006, p.p. 14-17.

[86] Report by PIB, Govt. of India, "Annual report 2002," Press Information Bureau, 2002, from http://pib.nic.in/archieve/others /earthqglance.html

[87] CRS Report for Congress, "Indian Ocean Earthquake and Tsunami: Humanitarian Assistance and Relief Operations," 2005, from http://www.fas.org/sgp/crs/row/RL327 15.pdf

[88] Evaluation of Civil Protection Mechanism- Case study report- Earthquake Japan 2011, Mathieu Capdevila, Sheila Mass and Stephan Zimmermann, November 2014. http://ec.europa.eu/echo/files/evaluation/2015/CPM_case_study_japan_en.pdf

[89] Health in South-East Asia Nepal Earthquake 2015: One month later, a report by Regional office for South East Asia of World Health Organization (WHO).

[90] A report on Kedarnath Devastation, Wadia Institute of Himalayan Geology, Dehradun, December 2013. http://www.wihg.res.in/news

[91] https://en.m.wikipedia.org/wiki/2013_North_India_floods