

Tutorial on **Mobile Ad Hoc Networks**, by Nitin Vaidya (vaidya@cs.tamu.edu): References for this tutorial are listed below. The tutorial slides cite the references by the name of the first author. The list below is sorted according to the first authors' names, and may include some relevant publications not cited in the tutorial.

References

- [1] Y. Afek, E. Gafni, and M. Ricklin, "Upper and lower bounds for routing schemes in dynamic networks," in *IEEE Annual Symposium on Foundations of Computer Science (FOCS)*, October 1989.
- [2] G. Aggelou and R. Tafazolli, "RDMAR: A bandwidth-efficient routing protocol for mobile ad hoc networks," in *ACM International Workshop on Wireless Mobile Multimedia (WoWMoM)*, August 1999.
- [3] A. D. Amis, R. Prakash, T. H. P. Vuong, and D. T. Huynh, "Max-Min-D-Cluster formation in wireless ad hoc networks," in *INFOCOM*, pp. 32–41, March 2000.
- [4] S. H. Bae, S.-J. Lee, W. Su, and M. Gerla, "The design, implementation, and performance evaluation of the on-demand multicast routing protocol in multihop wireless networks," *IEEE Network*, vol. 14, pp. 70–77, January 2000.
- [5] H. Balakrishnan, V. Padmanabhan, and R. Katz, "The effects of asymmetry on TCP performance," in *Third ACM/IEEE Mobicom conference, Budapest, Hungary*, September 1997.
- [6] S. Basagni, I. Chlamtac, V. R. Syrotiuk, and B. A. Woodward, "A distance routing effect algorithm for mobility (DREAM)," in *ACM/IEEE Int. Conf. on Mobile Computing and Networking*, pp. 76–84, October 1998.
- [7] B. Bensaou, Y. Wang, and C. C. Ko, "Fair medium access in 802.11 based wireless ad-hoc networks," in *Workshop on Mobile Ad Hoc Networking and Computing (MobiHoc)*, August 2000.
- [8] P. Bhagwat and A. Segall, "A routing vector method (RVM) for routing in bluetooth scatter-nets," in *IEEE Int. Workshop on Mobile Multimedia Communications (MOMUC)*, November 1999.
- [9] P. Bhagwat, "Personal area networking over bluetooth," August 2000. Tutorial presented at MobiCom 2000, Boston.
- [10] V. Bharghavan, A. Demers, S. Shenker, and L. Zhang, "MACAW: A media access protocol for wireless LANs," in *ACM SIGCOMM*, pp. 212–225, August 1994.
- [11] L. Blazevic, S. Giordano, and J. Y. Le Boudec, "Self-organizing wide-area routing," in *Proceedings of SCI 2000/ISAS 2000, Orlando*, July 2000.
- [12] P. Bose, P. Morin, I. Stojmenovic, and J. Urrutia, "Routing with guaranteed delivery in ad hoc wireless networks," in *3rd International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (DIAL M)*, August 1999.

- [13] L. Briesemeister and G. Hommel, "Role-based multicast in highly mobile but sparsely connected ad hoc networks," in *Workshop on Mobile Ad Hoc Networking and Computing (MobiHoc)*, August 2000.
- [14] 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 *ACM/IEEE Int. Conf. on Mobile Computing and Networking*, pp. 85–97, October 1998.
- [15] J. Broch, D. A. Maltz, and D. B. Johnson, "Supporting hierarchy and heterogeneous interfaces in multi-hop wireless ad hoc network," in *Workshop on Mobile Computing, Perth, Australia*, June 1999.
- [16] L. Buttyan and J.-P. Hubaux, "Enforcing service availability in mobile ad-hoc wans," in *Workshop on Mobile Ad Hoc Networking and Computing (MobiHoc)*, August 2000.
- [17] R. Castaneda and S. R. Das, "Query localization techniques for on-demand routing protocols in ad hoc networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, pp. 186–194, August 1999.
- [18] K. Chandran, S. Raghunathan, S. Venkatesan, and R. Prakash, "A feedback based scheme for improving tcp performance in ad-hoc wireless networks," in *International Conf. Distributed Computing Systems*, May 1998.
- [19] J. Chang and L. Tassiulas, "Energy conservin routing in wireless ad hoc networks," in *IEEE INFOCOM*, pp. 22–31, March 2000.
- [20] DARPA Information Technology Office, "Sensor information technology." <http://www.darpa.mil/ito/research/sensit/index.html>.
- [21] S. R. Das, C. E. Perkins, and E. M. Royer, "Performance comparison of two on-demand routing protocols for ad hoc networks," in *INFOCOM*, pp. 3–12, March 2000.
- [22] R. Dube, C. D. Rais, K. Wang, and S. K. Tripathi, "Signal stability based adaptive routing (SSA) for ad hoc mobile networks," *IEEE Personal Communication*, February 1997.
- [23] E. Gafni and D. Bertsekas, "Distributed algorithms for generating loop-free routes in networks with frequently changing topology," *IEEE Transactions on Communications*, vol. C-29, no. 1, pp. 11–18, 1981.
- [24] J. J. Garcia-Luna-Aceves, "Reversing the collision-avoidance handshake in wireless networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, pp. 120–131, August 1999.
- [25] M. Gerla and T.-C. Tsai, "Multicluster, mobile, multimedia radio network," *Wireless Networks*, pp. 255–265, 1995.
- [26] M. Gerla, K. Tang, and R. Bagrodia, "TCP performance in wireless multi-hop networks," in *IEEE Workshop on Mobile Computing Systems and Applications (WMCSA)*, pp. 41–50, February 1999.
- [27] J. Haartsen, "Bluetooth – the universal radio interface for ad hoc, wireless connectivity," *Ericsson Review*, 1998.

- [28] Z. Haas and M. Pearlman, "The performance of query control schemes for the zone routing protocol," in *ACM SIGCOMM*, 1998.
- [29] G. Holland, N. H. Vaidya, and P. Bahl, "A rate-adaptive mac protocol for wireless networks," Tech. Rep. 00-019, Computer Science, Texas A&M University, August 2000.
- [30] G. Holland and N. H. Vaidya, "Analysis of TCP performance over mobile ad hoc networks," in *International Conference on Mobile Computing and Networking (MOBICOM)*, August 1999.
- [31] Y.-C. Hu and D. B. Johnson, "Caching strategies in on-demand routing protocols for wireless ad hoc networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, August 2000.
- [32] J. P. Hubaux, J. Y. Le Boudec, S. Giordano, M. Hamdi, L. Blazevic, L. Buttyan, and M. Vojnovic, "Towards mobile ad-hoc wans: Terminodes," in *IEEE Wireless Communications and Networking Conference (WCNC)*, September 2000.
- [33] C. Huitema, *Routing in the Internet*. Prentice Hall, 1995.
- [34] IEEE, "IEEE std. 802.11 - wireless LAN medium access control (MAC) and physical layer (PHY) specifications," 1997.
- [35] IETF Mobile Ad-Hoc Networks (MANET) Working Group, "<http://www.ietf.org/html.charters/manet-charter.html>."
- [36] S. Jacobs and M. S. Corson, "Manet authentication architecture," August 1998. IETF MANET Working Group Internet Draft (Work in Progress).
- [37] P. Jacquet, P. Muhlethaler, and A. Qayyum, "Optimized link state routing protocol." IETF MANET Working Group Internet-Draft, Expires 7 August, 2000, Work in Progress.
- [38] P. Jacquet and A. Laouiti, "Analysis of mobile ad-hoc network routing protocols in random graph models," Tech. Rep. RR-3835, INRIA, France, December 1999.
- [39] S. Jiang, N. H. Vaidya, and W. Zhao, "Power-aware traffic cover mode to prevent traffic analysis in wireless ad hoc networks," tech. rep., Computer Science, Texas A&M University, July 2000.
- [40] S. Jiang, N. H. Vaidya, and W. Zhao, "Routing in packet radio networks to prevent traffic analysis," in *IEEE Information Assurance and Security Workshop, West Point, NY*, June 2000.
- [41] P. Johansson, T. Larsson, N. Hedman, B. Mielczarek, and M. Degermark, "Scenario-based performance analysis of routing protocols for mobile ad-hoc networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, pp. 195–206, August 1999.
- [42] D. Johnson and D. A. Maltz, "Dynamic source routing in ad hoc wireless networks," in *Mobile Computing* (T. Imielinski and H. Korth, eds.), Kluwer Academic Publishers, 1994.
- [43] A. Kamerman and L. Monteban, "WaveLAN-II: A high-performance wireless LAN for the unlicensed band," *Bell Labs Technical Journal*, pp. 118–133, summer 1997.

- [44] P. Karn, "MACA - A new channel access method for packet radio," in *Proc. of ARRL/CRRRL Amateur Radio 9th Computer Networking Conference*, September 1990.
- [45] P. Karn, "Re: Pilc: prioritization," January 1999. E-mail posting on the IETF PILC working group mailing list. Archive available at <http://pilc.grc.nasa.gov/>.
- [46] B. Karp and H. T. Kung, "Gpsr: Greedy perimeter stateless routing for wireless networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, August 2000.
- [47] Y.-B. Ko and N. H. Vaidya, "Location-aided routing (LAR) in mobile ad hoc networks," in *ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, November 1998.
- [48] Y.-B. Ko and N. H. Vaidya, "Geocasting in mobile ad hoc networks: Location-based multicast algorithms," in *2nd IEEE Workshop on Mobile Computing Systems and Applications (WMCSA), New Orleans*, February 1999.
- [49] Y.-B. Ko and N. H. Vaidya, "Anycasting and geocasting in mobile ad hoc networks," Tech. Rep. 00-015, Dept. of Computer Science, Texas A&M University, June 2000.
- [50] Y.-B. Ko and N. H. Vaidya, "Geotora: A protocol for geocasting in mobile ad hoc networks," in *8th International Conference on Network Protocols, Osaka, Japan*, November 2000.
- [51] P. Krishna, N. H. Vaidya, M. Chatterjee, and D. K. Pradhan, "A cluster-based approach for routing in dynamic networks," *ACM Computer Communication Review*, pp. 372–378, March 1997.
- [52] J. Lansford and P. Bahl, "The design and implementation of homerf: A radio-frequency wireless networking standard for the connected home," *The Proceedings of the IEEE*, to appear November 2000.
- [53] S.-J. Lee, W. Su, J. Hsu, M. Gerla, and R. Bagrodia, "A performance comparison study of ad hoc wireless multicast protocols," in *IEEE INFOCOM*, March 2000.
- [54] H. Luo, S. Lu, and V. Bharghavan, "A new model for packet scheduling in multihop wireless networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, August 2000.
- [55] N. Malpani, J. Welch, and N. H. Vaidya, "Leader election algorithms for mobile ad hoc networks," in *International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (DIAL M)*, August 2000.
- [56] D. A. Maltz, J. Broch, and D. B. Johnson, "Experiences designing and building a multi-hop wireless ad hoc network testbed," Tech. Rep. CMU-CS-99-116, Computer Science, Carnegie Mellon University, March 1999.
- [57] G. Montenegro, S. Dawkins, M. Kojo, V. Margret, and N. H. Vaidya, "Long thin networks." Internet Engineering Task Force RFC 2757, January 2000.
- [58] T. Nandagopal, T. Kim, X. Gao, and V. Bharghavan, "Achieving mac layer fairness in wireless packet networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, August 2000.

- [59] J. C. Navas and T. Imielinski, "Geocast - geographic addressing and routing," in *ACM/IEEE Int. Conf. on Mobile Computing and Networking (MobiCom'97)*, September 1997.
- [60] S. Ni, Y. Tseng, Y. Chen, and J. Chen, "The broadcast storm problem in a mobile ad hoc network," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, pp. 151–162, August 1999.
- [61] T. Ozugur, M. Naghshineh, P. Kermani, C. M. Olsen, B. Rezvani, and J. A. Copeland, "Balanced media access methods for wireless networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, October 1998.
- [62] V. Padmanabhan, "Re: Pilc: prioritization," January 1999. E-mail posting on the IETF PILC working group mailing list. Archive available at <http://pilc.grc.nasa.gov/>.
- [63] V. D. Park and M. S. Corson, "A highly adaptive distributed routing algorithm for mobile wireless networks," in *IEEE INFOCOM'97*, pp. 1405–1413, 1997.
- [64] G. Pei, M. Gerla, and X. Hong, "Lanmar: Landmark routing for large scale wireless ad hoc networks with group mobility," in *Workshop on Mobile Ad Hoc Networking and Computing (MobiHoc)*, August 2000.
- [65] C. E. Perkins and E. M. Royer, "Ad-hoc on demand distance vector routing," in *IEEE Workshop on Mobile Computing Systems and Applications (WMCSA)*, February 1999.
- [66] C. E. Perkins, E. M. Royer, and S. R. Das, "Ip address autoconfiguration for ad hoc networks," July 2000. Internet Draft, IETF Working Group MANET (Work in Progress).
- [67] C. E. Perkins and P. Bhagwat, "Highly dynamic destination-sequenced distance-vector routing for mobile computers," in *ACM SIGCOMM Symposium on Communication, Architectures and Protocols*, 1994.
- [68] R. Ramanathan and R. Rosales-Hain, "Topology control of multihop wireless networks using transmit power adjustment," in *IEEE INFOCOM*, pp. 404–413, March 2000.
- [69] R. Ramanathan and R. Hain, "An ad hoc wireless testbed for scalable, adaptive quality-of-service support," in *IEEE Wireless Communications and Networking Conference (WCNC)*, September 2000.
- [70] R. Ramanujan, A. Ahamad, J. Bonney, R. Hagelstrom, and K. Thurber, "Techniques for intrusion-resistant ad hoc routing algorithms (TIARA)," in *MILCOM*, October 2000.
- [71] R. Reuben, "Maintaining connectivity in a mobile ad hoc network," December 1998. M. S. Thesis, Computer Science, Texas A&M University.
- [72] E. M. Royer and C. E. Perkins, "Multicast operation of the ad-hoc on-demand distance vector routing protocol," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, pp. 207–218, August 1999.
- [73] S. Singh and C. Raghavendra, "PAMAS - power aware multi-access protocol with signalling for ad hoc networks," *ACM Computer Communications Review*, 1998.

- [74] R. Sivakumar, P. Sinha, and V. Bharghavan, "Cedar: a core-extraction distributed ad hoc routing algorithm," *IEEE Journal on Selected Areas in Communications*, vol. 17, pp. 1454–1465, August 1999.
- [75] I. Stojmenovic and X. Lin, "Gedir: Loop-free location based routing in wireless networks," in *ASTED Int. Conf. on Parallel and Distributed Computing and System*, November 1999.
- [76] C.-K. Toh, "Associativity based routing for ad hoc mobile networks," *Wireless Personal Communications*, March 1997.
- [77] N. H. Vaidya, P. Bahl, and S. Gupta, "Distributed fair scheduling in a wireless lan," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, August 2000.
- [78] N. Vaidya, M. Mehta, C. Perkins, and G. Montenegro, "Delayed duplicate acknowledgements: A TCP-unaware approach to improve performance of TCP over wireless," Tech. Rep. 99-003, Computer Science Department, Texas A&M University, February 1999.
- [79] N. H. Vaidya and P. Bahl, "Fair scheduling in broadcast environments," Tech. Rep. MSR-TR-99-61, Microsoft Research, August (revised December) 1999.
- [80] J. Walter, J. Welch, and N. H. Vaidya, "A mutual exclusion algorithm for ad hoc mobile networks," in *International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (DIAL M)*, October 1998.
- [81] Y. Zhang and W. Lee, "Intrusion detection in wireless ad-hoc networks," in *Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM)*, August 2000.
- [82] H. Zhou and S. Singh, "Content based multicast (CBM) in ad hoc networks," in *Workshop on Mobile Ad Hoc Networking and Computing (MobiHoc)*, August 2000.

End of References