

References

1. “Federal Communications Commission. News Release, October 1999”. FCC. Retrieved 2009-08-16.
2. “European Telecommunications Standards Institute. News Release, September 2008”. ETSI. Retrieved 2009-08-16.
3. <http://cartel.csail.mit.edu>
4. Bret Hull, Vladimir Bychkovsky, Kevin Chen, Michel Goraczko, Allen Miu, Eugene Shih, Yang Zhang, Hari Balakrishnan, and Samuel Madden, “CarTel: A Distributed Mobile Sensor Computing System”, in Proceedings of ACM SenSys, 2006.
5. Jakob Eriksson, Hari Balakrishnan, and Samuel Madden, “Cabernet: Vehicular Content Delivery Using WiFi”, in Proceedings of 14th ACM MOBICOM, San Francisco, CA, Sep 2008.
6. “CafNet: A Carry-and-Forward Delay-Tolerant Network”, MEng Thesis, MIT EECS, Feb. 2007.
7. Vladimir Bychkovsky, Bret Hull, Allen Miu, Hari Balakrishnan, and Samuel Madden, “A Measurement Study of Vehicular Internet Access Using Unplanned 802.11 Networks”, in Proceedings of ACM MOBICOM, 2006.
8. <http://prisms.cs.umass.edu/dome/dieselnet-buses>.
9. John Burgess, Brian Gallagher, David Jensen, and Brian Neil Levine, “MaxProp: Routing for Vehicle-Based Disruption-Tolerant Networks”, In Proceedings of IEEE INFOCOM, April 2006.
10. Aruna Balasubramanian, Brian Neil Levine, and Arun Venkataramani, “Replication Routing in DTNs: A Resource Allocation Approach”, IEEE/ACM Transactions on Networking, 18(2):596–609, April 2010.
11. Nilanjan Banerjee, Mark D. Corner, and Brian Neil Levine, “An Energy-Efficient Architecture for DTN Throwboxes”, In Proceedings of IEEE Infocom, pages 776–784, Anchorage, Alaska, May 2007.
12. Nilanjan Banerjee, Mark D. Corner, and Brian Neil Levine, “Design and Field Experimentation of an Energy-Efficient Architecture for DTN Throwboxes”, IEEE/ACM Transactions on Networking, 18(2):554–567, April 2010.
13. Nilanjan Banerjee, Mark D. Corner, Don Towsley, and Brian Neil Levine, “Relays, Base Stations, and Meshes: Enhancing Mobile Networks with Infrastructure”, In Proceedings of ACM Mobicom, pages 81–91, San Francisco, CA, USA, September 2008.
14. Aruna Balasubramanian, Ratul Mahajan, Arun Venkataramani, Brian Neil Levine, and John Zahorjan, “Interactive WiFi Connectivity for Moving Vehicles”, In Proceedings of ACM SIGCOMM, pages 427–438, August 2008.

15. Xiaolan Zhang, Jim Kurose, Brian Neil Levine, Don Towsley, and Honggang Zhang, "Study of a Bus-Based Disruption Tolerant Network: Mobility Modeling and Impact on Routing", In Proceedings of ACM Mobicom, pages 195–206, September 2007.
16. Fan Bai, Daniel D. Stancil and Hariharan Krishnan, "Toward Understanding Characteristics of Dedicated Short Range Communications (DSRC) From a Perspective of Vehicular Network Engineers", In Proceedings of ACM MOBICOM, 2010.
17. <http://www.netlab.nec.de/Projects/fleetnet.htm>
18. Jörg Widmer, Martin Mauve, Hannes Hartenstein, Holger Füßler. Position-Based Routing in Ad-Hoc Wireless Networks. In Mohammad Ilyas (ed.): The Handbook of Ad Hoc Wireless Networks, CRC Press, 2002, Boca Raton, FL, U.S.A.
19. Holger Füßler, Joerg Widmer, Michael Kaesemann, Martin Mauve, Hannes Hartenstein, "Contention-based forwarding for mobile ad hoc networks", *Ad Hoc Networks Journal*, Elsevier, pp. 351–369, Nov 2003.
20. Christian Lochert, Hannes Hartenstein, Jing Tian, Holger Füßler, Dagmar Herrmann, Martin Mauve. A Routing Strategy for Vehicular Ad Hoc Networks in City Environments. IEEE Intelligent Vehicles Symposium, June 2003, Columbus, Ohio.
21. Andreas Festag, Holger Füßler, Hannes Hartenstein, Amardeo Sarma, and Ralf Schmitz. FleetNet: Bringing Car-to-Car Communication into the Real World. In Proceedings of the 11th World Congress on ITS, Nagoya, Japan, October 2004.
22. <http://www.network-on-wheels.de>
23. <https://www.car-2-car.org/car2car08/>
24. H. Füßler, M. Torrent-Moreno, M. Transier, A. Festag, and H. Hartenstein, "Thoughts on a Protocol Architecture for Vehicular Ad-Hoc Networks," in Proceedings of WIT, Hamburg, Germany, March 2005, pp. 41–45.
25. M. Torrent-Moreno, A. Festag, and H. Hartenstein, "System Design for Information Dissemination in VANETs," in Proceedings of WIT, Hamburg, Germany, March 2006, pp. 27–33.
26. T. Kosch, C.J. Adler, S. Eichler, and M. Schroth, C. Strassberger, "The Scalability Problem of Vehicular Ad Hoc Networks and How to Solve it," IEEE Wireless Communications, vol. 13, no. 5, 2006.
27. Bookstein, and Abraham, "Informetric distributions, part I: Unified overview", Journal of the American Society for Information Science 41: 368–375, 1990.
28. A. Chaintreau, P. Hui, J. Crowcroft, C. Diot, R. Gass, and J. Scott, "Impact of Human Mobility on the Design of Opportunistic Forwarding Algorithms", in proceedings of IEEE INFOCOM, 2006.
29. T. Henderson, D. Kotz, and I. Abyzov, "The changing usage of a mature campus-wide wireless network", in ACM Mobicom, 2004.
30. P. Hui, A. Chaintreau, J. Scott, R. Gass, J. Crowcroft, and C. Diot, "Pocket switched networks and the consequences of human mobility in conference environments," in Proceedings of ACM SIGCOMM first workshop on delay tolerant networking and related topics (WDTN-05), 2005.
31. A. Bar-Noy, I. Kessler, and M. Sidi, "Mobile users: To update or not to update?", In Proceedings of IEEE INFOCOM, 1994.
32. A. E. Gamal, J. Mammen, B. Prabhakar, and D. Shah, "Throughput-delay trade-off in wireless networks", in Proceedings of IEEE INFOCOM, 2004.
33. G. Sharma, and R. Mazumdar, "Scaling Laws for Capacity and Delay in Wireless Ad Hoc Networks with Random Mobility", in proceedings of IEEE International Conference on Communication (ICC), 2004.
34. J. Broch, D. Maltz, D. Johnson, Y. Hu, and J. Jetcheva, "Multi-hop wireless ad hoc network routing protocols", in Proceedings of the ACM/IEEE MOBICOM, 1998.
35. C. Chiang and M. Gerla, "On-demand multicast in mobile wireless networks", In Proceedings of IEEE ICNP, 1998.

36. P. Johansson, T. Larsson, N. Hedman, B. Mielczarek, and M. Degermark, "Routing protocols for mobile ad-hoc networks—a comparative performance analysis", in Proceedings of ACM/IEEE MOBICOM, 1999.
37. E. Royer, P.M. Melliar-Smith, and L. Moser, "An analysis of the optimum node density for ad hoc mobile networks", in Proceedings of the IEEE International Conference on Communications (ICC), 2001.
38. R. Groenevelt, P. Nain, and G. Koole, "Message delay in MANET", in Proceedings of ACM SIGMETRICS 2004.
39. G. Sharma, and R. R. Mazumdar, "Delay and Capacity Trade-off in Wireless Ad Hoc Networks with Random Mobility", ACM/Kluwer Journal on Mobile Networks and Applications (MONET), 2004.
40. H. Cai and D.Y. Eun, "Crossing Over the Bounded Domain: From Exponential To Power-law Inter-meeting Time in MANET", in Proceedings of ACM/IEEE MOBICOM, 2007.
41. Tracy Camp, Jeff Boleng, and Vanessa Davies, "A survey of mobility models for ad hoc network research", *Wireless Communications and Mobile Computing*, Volume 2, Issue 5, pages 483–502, August 2002.
42. M. McNett, and G. M. Voelker, "Access and mobility of wireless PDA user", in Tech. rep., Computer Science and Engineering, UC San Diego, 2004.
43. A. Balasubramanian, B.N. Levine, and A. Venkataramani, "DTN routing as a resource allocation problem," in Proceeding of ACM SIGCOMM 2007, pp. 372–384, Aug. 2007.
44. Hongzi Zhu, Luoyi Fu, Guangtao Xue, Minglu Li, Yanmin Zhu and Lionel M. Ni, "Recognizing Exponential Inter-Contact Time in VANETs," in Proceedings of IEEE INFOCOM (Mini-conference), San Diego, USA, Mar. 2010.
45. H. Zhu, M. Li, L. Fu, G. Xue, Y. Zhu, and L. Ni, "Impact of Traffic Influxes: Revealing Exponential Inter-Contact Time in urban VANETs", *IEEE Transactions on Distributed and Parallel Systems*, vol. 22(8), pp. 1258–1266, 2010.
46. T. Spyropoulos, K. Psounis, and C. Raghavendra, "Efficient routing in intermittently connected networks: the multi-copy case," *ACM/IEEE Transactions on Networking*, vol. 16, no. 1, pp. 77–90, 2008.
47. Qin Lv, Pei Cao, Edith Cohen, Kai Li, and Scott Shenker, "Search and Replication in Unstructured Peer-to-Peer Networks," in Proceedings of the 16th international conference on Supercomputing, 2002.
48. Christos Gkantsidis, Milena Mihail, and Amin Saberi, "Random Walks in Peer-to-Peer Networks," in Proceedings of IEEE INFOCOM, 2004.
49. S. Jain, K. Fall, and R. Patra, "Routing in a Delay Tolerant Network," in Proceedings of ACM SIGCOMM, pp. 145–158, 2004.
50. V. Conan, J. Leguay, and T. Friedman, "Fixed Point Opportunistic Routing in Delay Tolerant Networks," *IEEE Journal on Selected Areas in Communications*, vol. 26, no. 5, pp. 773–782, 2008.
51. V. Erramilli, A. Chaintreau, M. Crovella, and C. Diot, "Delegation Forwarding," in Proceedings of ACM MobiHoc, 2008.
52. M. Shin, S. Hong, and I. Rhee, "DTN Routing Strategies Using Optimal Search Patterns," in Proceedings of ACM SIGCOMM Workshop Challenged Networks (CHANTS '08), 2008.
53. S. C. Nelson, M. Bakht, and R. Kravets, "Encounter-based routing in dtns," in Proceeding of IEEE INFOCOMM 2009, Rio de Janeiro, Brazil, pp. 846–854, Apr. 2009.
54. H. Zhu, S. Chang, M. Li, S. Naik, and X. Shen, "Exploiting temporal dependency for opportunistic forwarding in urban vehicular networks," in Proceeding of IEEE INFOCOMM 2011, Shanghai, China, Apr. 2011.
55. E. M. Daly, and M. Haahr, "Social network analysis for routing in disconnected delay-tolerant MANETs," in Proceeding of ACM MOBIHOC 2007, Montreal, Canada, pp. 32–40, Sep. 2007.

56. P. Hui, J. Crowcroft, and E. Yoneki, "Bubble Rap: social-based forwarding in delay tolerant networks," in Proceeding of ACM MOBIHOC 2008, Hong Kong, China, May. 2008.
57. J. Pujol, A. Toledo, and P. Rodriguez, "Fair routing in delay tolerant networks," in Proceeding of IEEE INFOCOM 2009, Rio de Janeiro, Brazil, pp. 837–845, Apr. 2009.
58. T. Hossmann, T. Spyropoulos, and F. Legendre, "Know thy neighbor: towards optimal mapping of contacts to social graphs for dtn routing," in Proceeding of IEEE INFOCOM 2010, San Diego, USA, Mar. 2010.
59. T. Karagiannis, J. Le Boudec, and M. Vojnovi_c, "Power Law and Exponential Decay of Inter Contact Times between Mobile Devices," in Proceedings of ACM MOBICOM, pp. 183–194, 2007.
60. X. Zhang, J. Kurose, B. N. Levine, D. Towsley, and H. Zhang, "Study of a Bus-based Disruption-Tolerant Network: Mobility Modeling and Impact on Routing", in Proceedings of ACM/IEEE MOBICOM, 2007.
61. A. Lindgren, A. Doria, and O. Schelen, "Probabilistic Routing in Intermittently Connected Networks," *Mobile Computing and Comm. Rev.*, vol. 7, no. 3, pp. 19–20, 2003.
62. Hongzi Zhu, Mianxiong Dong, Shan Chang, Yanmin Zhu, Minglu Li and Sherman Shen, "ZOOM: Scaling the Mobility for Fast Opportunistic Forwarding in Vehicular Networks," to appear in Proceedings of IEEE INFOCOM 2013.
63. R. Lu, X. Lin, and X. Shen, "SPRING: A Social-based Privacy Preserving Packet Forwarding Protocol for Vehicular Delay Tolerant Networks", in Proceedings of IEEE INFOCOM, 2010.
64. S. Milgram, "The small world problem," *Psychology Today*, vol. 1, no. 1, pp. 61–67, 1976.
65. H. Dubois-Ferriere, M. Grossglauser, and M. Vetterli, "Age matters: efficient route discovery in mobile ad hoc networks using encounter ages", in Proceedings of ACM MobiHoc, 2003.
66. Amaral, L. A. N., Scala, A., Barthelemy, M., and Stanley, H. E., "Classes of small-world networks," in Proceedings of the National Academy of Sciences of USA (PNAS), 97, 11149–11152 (2000).
67. M. E. J. Newman, "Modularity and community structure in networks", *PNAS*, 2006.
68. V. D. Blondel, J. L. Guillaume, R. Lanbiotte, and E. Lefebvre, "Fast unfolding the communities in large networks", *J. STAT. MECH.*, 2008.
69. Q. Yuan, I. Cardei, and J. Wu, "Predict and relay: an efficient routing in disruption-tolerant networks," in Proceeding of ACM MOBIHOC 2009, New Orleans, USA, May. 2009.
70. L. C. Freeman, "A set of measures of centrality based on betweenness," *Sociometry*, vol. 40, no. 1, pp. 35–41, 1977.
71. M. Everett, and S. P. Borgatti, "Ego network betweenness," *Social Networks*, vol. 27, issue 1, pp. 31–38, 2005.
72. European Commission, "The Karen European Its Framework Architecture," <http://www.frame-online.net/>. 2004.
73. Department of Transportation of the United States, "The National Its Architecture Version 5.1," <http://itsarch.iteris.com/itsarch/index.htm>. 2005.
74. Ministry of Internal Affairs and Communications National Police Agency, and Ministry of Land, Infrastructure, and Transport of Japan, "Vehicle Information and Communication System," <http://www.vics.or.jp/english/index.html>. 2006.
75. Hongzi Zhu, Minglu Li, Yanmin Zhu and Lionel M. Ni, "HERO: Online Real-time Vehicle Tracking," *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, vol. 20, no. 5, pp. 740–752, May 2009.
76. Hongzi Zhu, Yanmin Zhu, Minglu Li and Lionel M. Ni, "HERO: Online Real-time Vehicle Tracking in Shanghai," in Proceedings of IEEE INFOCOM 2008, Phoenix, USA, 2008.
77. Shanghai City Comprehensive Transportation Planning Institute, <http://www.sctcpi.gov.cn/chn/chn.asp>, 2007.

78. A. Bakker, E. Amade, G. Ballintijn, I. Kuz, P. Verkaik, I. van der Wijk, M. van Steen, and A.S. Tanenbaum, "The Globe Distribution Network," in Proceedings of USENIX Annual Conf., 2000.
79. Alminas Civilis, Christian S. Jensen, and Stardas Pakalnis, "Techniques for Efficient Road-Network-Based Tracking of Moving Objects," *IEEE Trans. Knowledge and Data Engineering*, vol. 17, pp. 698–712, 2005.
80. Dieter Pfoser, Christian S. Jensen, and Yannis Theodoridis, "Novel Approaches to the Indexing of Moving Object Trajectories," in Proceedings of Conf. Very Large Data Bases, 2000.
81. George Kollios, Dimitrios Gunopulos, Vassilis Tsotras, Alex Delis, and Marios Hadjieleftheriou, "Indexing Animated Objects Using Spatiotemporal Access Methods," *IEEE Trans. Knowledge and Data Engineering*, vol. 13, pp. 758–777, 2001.
82. Dan Lin, Christian S. Jensen, Beng Chin Ooi, and Simonas Saltenis, "Efficient Indexing of the Historical, Present, and Future Positions of Moving Objects," in Proceedings of the sixth Conf. Mobile Data Management, 2005.
83. Mindaugas Pelanis, Simonas Saltenis, and Christian S. Jensen, "Indexing the Past, Present, and Anticipated Future Positions of Moving Objects," *ACM Transactions on Database Systems*, vol. 31, pp. 255–298, 2006.
84. John F. Roddick, Max J. Egenhofer, Erik Hoel, and Dimitris Papadias, "Spatial, Temporal and Spatio-Temporal Databases—Hot Issues and Directions for Phd Research," in Proceedings of ACM SIGMOD, 2004.
85. Ben Y. Zhao, John Kubiawicz, and Anthony D. Joseph, "Tapestry: An Infrastructure for Fault-Tolerant Wide-Area Location and Routing," Technical Report UCB/CSD-01-1141, University of California at Berkeley, 2001.
86. Ion Stoica, Robert Morris, David Karger, M. Frans Kaashoek, and Hari Balakrishnan, "Chord: A Scalable Peer-to-Peer Lookup Service for Internet Applications," in Proceedings of ACM SIGCOMM, 2001.
87. Antony Rowstron and Peter Druschel, "Pastry: Scalable, Decentralized Object Location and Routing for Large-Scale Peer-to-Peer Systems," in Proceedings of IFIP/ACM Conference Distributed Systems Platforms, 2001.
88. Sylvia Ratnasamy, Paul Francis, Mark Handley, Richard Karp, and Scott Shenker, "A Scalable Content-Addressable Network," in Proceedings of ACM SIGCOMM, 2001.
89. "The Gnutella Protocol Specification V0.6," <http://rfc-gnutella.sourceforge.net>. 2005.
90. Stephen Boyd, Arpita Ghosh, Balaji Prabhakar, and Davavrat Shah, "Gossip Algorithms: Design, Analysis, and Applications," in Proceedings of IEEE INFOCOM, 2005.
91. David Kempe, Alin Dobra, and Johannes Gehrke, "Gossip-Based Computation of Aggregation Information," in Proceedings of IEEE FOCS, pp. 482–491, 2003.
92. LoJack Corp., "Stolen Vehicle Recovery System," <http://www.lojack.com/what/stolen-vehicle-recovery-system.cfm>. 2007.
93. iPico Corp., "Test Report : Single-Lane Vehicle Identification with UHF RFID," http://www.ipico.com/site/iPico_100/pdf/WP_App_HighSpeedVehicleID.pdf. 2007.
94. "Transportation Recall Enhancement, Accountability, and Documentation (TREAD) Act," the 106th United States Congress, <http://www.citizen.org/documents/TREAD%20Act.pdf>. 2000.
95. Ltd Shanghai Super Electronic Technology Co., <http://www.superrfid.net/english/>. 2007.
96. Cisco Systems Inc., "Cisco Aironet 1240 Series 802.11a/B/G Access Point Data Sheet," http://www.cisco.com/application/pdf/en/us/guest/products/ps6521/c1650/cdcont_0900aecd8031c844.pdf. 2007.
97. Ltd Shanghai Telecom Co., <http://www.shanghaitelecom.com.cn/>. 2007.
98. Song Jiang, Lei Guo, and Xiaodong Zhang, "LightFlood:an Efficient Flooding Scheme for File Search in Unstructured Peer-to-Peer Systems", in Proceedings of International Conference on Parallel Processing, 2003.
99. The Network Simulator, <http://www.isi.edu/nsnam/ns/>. 2007.

100. B. Coifman, "Identifying the onset of congestion rapidly with existing traffic detectors", In *Transportation Research*, volume 37 of Part A, pages 277–291, 2003.
101. W. Lin and C. Daganzo, "A simple detection scheme for delay-inducing freeway incidents", In *Transportation Research*, volume 31A of Part A, pages 141–155, 1997.
102. Bookstein, and Abraham, "Informetric distributions, part I: Unified overview", *Journal of the American Society for Information Science* 41: 368–375, 1990.
103. K. Fukunaga, "Introduction to Statistical Pattern Recognition", Academic Press, New York, 1970.
104. Beckers, J. and Rixen, M., "EOF calculations and data filling from incomplete oceanographic data sets", *J. Atmos. Ocean. Technol.*, 20, 1839–1856, 2003.
105. D. Kondrashov and M. Ghil, "Spatio-temporal filling of missing points in geophysical data sets", *Nonlin. Processes Geophys.*, 13, 151–159, 2006.