References

[AV98] P. Abry and D. Veitch, "Wavelet Analysis of Long Range Dependent Traffic," *IEEE Transactions on Information Theory*, 44(1), Jan. 1998.

[AKZ98a] G. Almes, S. Kalidindi and M. Zekauskas, "A Packet Loss Metric for IPPM," Internet draft, *ftp://ftp.ietf.org/internet-drafts/draft-ietf-ippm-loss-04.txt*, Aug. 1998.

[AKZ98b] G. Almes, S. Kalidindi and M. Zekauskas, "A One-way Delay Metric for IPPM," Internet draft, *ftp://ftp.ietf.org/internet-drafts/draft-ietf-ippm-delay-04.txt*, Aug. 1998.

[AW96] M. Arlitt and C. Williamson, "Web Server Workload Characterization: The Search for Invariants," *Proc. SIGMETRICS '96*, Philadelphia, May 23-26, 1996.

[BPSSK98] H. Balakrishnan, V. Padmanabhan, S. Seshan, M. Stemm and R. Katz, "TCP Behavior of a Busy Internet Server: Analysis and Improvements," *Proc. IEEE INFOCOM*, San Francisco, March 1998.

[Be92] J. Beran, "A Goodness-of-fit Test for Time Series with Long Range Dependence," *Journal of the Royal Statistical Society B*, 54(3), pp. 749-760, 1992.

[Be94] J. Beran, *Statistics for Long-Memory Processes*, Chapman & Hall, New York, 1994.

[BSTW95] J. Beran, R. Sherman, M. Taqqu, and W. Willinger, "Variable-Bit-Rate Video Traffic and Long-Range Dependence," *IEEE Trans. Comm.*, 43(2-4), pp. 1566-1579, 1995.

[Bo93] J-C. Bolot, "End-to-End Packet Delay and Loss Behavior in the Internet," *Proc. SIGCOMM '93*, pp. 289-298, Sept. 1993.

[CPB93b] K. Claffy, G. Polyzos, and H-W. Braun, "Application of Sampling Methodologies to Network Traffic Characterization," *Proc. SIGCOMM '93*, pp. 194-203, San Francisco, Sept. 1993.

[CB96] M. Crovella and A. Bestavros, “Self-Similarity in World Wide Web Traffic: Evidence and Possible Causes,” *Proc. SIGMETRICS '96*, Philadelphia, May 23-26, 1996.

[DS86] R. D' Agostino and M. Stephens, editors, *Goodness-of-Fit Techniques*, Marcel Dekker, Inc., 1986.

[DJ91] P. Danzig and S. Jamin, “tcplib: A Library of TCP Internetwork Traffic Characteristics,” *Report CS-SYS-91-01*, Computer Science Department, Univ. Southern California, 1991.

[DHS93] P. Danzig, R. Hall, and M. Schwartz, “A Case for Caching File Objects Inside Internetworks,” *Proc. SIGCOMM '93*, San Francisco, Sept. 1993.

[DJCME92] P. Danzig, S. Jamin, R. Cáceres, D. Mitzel, and D. Estrin, “An Empirical Workload Model for Driving Wide-area TCP/IP Network Simulations,” *Internetworking: Research and Experience*, 3(1), pp. 1-26, 1992.

[DOK92] P. Danzig, K. Obraczka, and A. Kumar, “An Analysis of Wide-Area Name Server Traffic,” *Proc. SIGCOMM '92*, Baltimore, Aug. 1992.

[ENW96] A. Erramilli, O. Narayan, and W. Willinger, “Experimental Queueing Analysis with Long-Range Dependent Packet Traffic,” *IEEE/ACM Transactions on Networking*, 4(2), pp. 209-223, Apr. 1996.

[FJ94] S. Floyd and V. Jacobson, “The Synchronization of Periodic Routing Messages,” *IEEE/ACM Transactions on Networking*, 2(2), pp. 122-136, Ap. 1994.

[FL91] H. Fowler and W. Leland, “Local Area Network Traffic Characteristics, with Implications for Broadband Network Congestion Management,” *IEEE JSAC*, 9(7), pp. 1139-1149, Sept. 1991.

[Ga93] M. Garrett, “Contributions Toward Real-Time Services on Packet Switched Networks,” Ph.D. thesis, Columbia Univ., CU/CTR/TR 340-93-20, 1993.

[GW94] M. Garrett and W. Willinger, "Analysis, Modeling and Generation of Self-Similar VBR Video Traffic," *Proc. SIGCOMM '94*, London, Sept. 1994.

[GB96] M. Grossglauser and J-C. Bolot, "On the Relevance of Long-Range Dependence in Network Traffic," *Proc. SIGCOMM '96*, pp. 15-24, Aug. 1996.

[Gu90] R. Gusella, "A Measurement Study of Diskless Workstation Traffic on an Ethernet," *IEEE Trans. Comm.*, 38(9), pp. 1557-1568, Sept. 1990.

[H-BD96] M. Harchol-Balter and A. Downey, "Exploiting Process Lifetime Distributions for Dynamic Load Balancing," *Proc. SIGMETRICS '96*, Philadelphia, May 23-26, 1996.

[IPPM] Internet Engineering Task Force working group on IP Performance Metrics, *http://www.ietf.org/html.charters/ippm-charter.html*.

[ITA] The Internet Traffic Archive, *http://www.acm.org/sigcomm/ITA/*.

[Ir93] G. Irlam, "ufs'93 [Updated file size survey results]," USENET newsgroup comp.os.research, message 2ddp3b$jn5@darkstar.UCSC.EDU, Nov. 29, 1993.

[Ja88] V. Jacobson, "Congestion Avoidance and Control," *Proc. SIGCOMM '88*, pp. 314-329, Aug. 1988.

[JLM89] V. Jacobson, C. Leres, and S. McCanne, `tcpdump`, available via anonymous ftp to ftp.ee.lbl.gov, June 1989.

[JR86] R. Jain and S. Routhier, "Packet Trains — Measurements and a New Model for Computer Network Traffic," *IEEE JSAC*, 4(6), pp. 986-995, Sept. 1986.

[LMJ97] C. Labovitz, G. Malan, and F. Jahanian, "Internet Routing Instability," *Proc. SIGCOMM '97*, Cannes, France, Sep. 1997.

[LO86] W. Leland and T. Ott, "Load-balancing Heuristics and Process Behavior," *PERFORMANCE '86 and ACM SIGMETRICS 1986*

Joint conference on Computer Performance Modelling, Measurement and Evaluation, North Carolina State Univ., pp. 54-69, May 1986.

[LTWW93] W. Leland, M. Taqqu, W. Willinger, and D. Wilson, "On the Self-Similar Nature of Ethernet Traffic," *Proc. SIGCOMM '93*, San Francisco, Sept. 1993.

[LTWW94] W. Leland, M. Taqqu, W. Willinger, and D. Wilson, "On the Self-Similar Nature of Ethernet Traffic (Extended Version)," *IEEE/ACM Transactions on Networking*, 2(1), pp. 1-15, Feb. 1994.

[Lo98] M. Lottor, *http://www.nw.com/zone/WWW/top.html*; Aug. 1998.

[MP98] J. Mahdavi and V. Paxson, "IPPM Metrics for Measuring Connectivity," Internet draft, *ftp://ftp.ietf.org/internet-drafts/draft-ietf-ippm-connectivity-02.txt*, Aug. 1998.

[Ml74] P. Martin-Löf, "The Notion of Redundancy and Its Use as a Quantitative Measure of the Discrepancy between a Statistical Hypothesis and a Set of Observational Data," *Scandinavian Journal of Statistics*, 1(1), pp. 3-18, 1974.

[MM96] M. Mathis and J. Mahdavi, "Diagnosing Internet Congestion with a Transport Layer Performance Tool," *Proc. INET '96*, Montreal, June 1996.

[MJ93] S. McCanne and V. Jacobson, "The BSD Packet Filter: A New Architecture for User-level Packet Capture," *Proc. the 1993 Winter USENIX Conference*, San Diego, CA.

[MLJ94] S. McCanne, C. Leres and V. Jacobson, `libpcap`, available via anonymous ftp to ftp.ee.lbl.gov, 1994.

[Mi96] G. Minshall, `tracelook`, available in the Internet Traffic Archive [ITA], 1996.

[Mo92] J. Mogul, "Observing TCP Dynamics in Real Networks," *Proc. SIGCOMM '92*, pp. 305-317, Baltimore, Aug. 1992.

[Pa89] P. Pawlita, "Two Decades of Data Traffic Measurements: A Survey of Published Results, Experiences and Applicability," *Teletraffic Science for New Cost-Effective Systems, Networks and*

Services, ITC-12, M. Bonatti (Editor), Elsevier Science Publishers B.V. (North-Holland), 1989.

[Pa94a] V. Paxson, "Empirically-Derived Analytic Models of Wide-Area TCP Connections," *IEEE/ACM Transactions on Networking*, 2(4), pp. 316-336, Aug. 1994.

[PF94] V. Paxson and S. Floyd, "Wide-Area Traffic: The Failure of Poisson Modeling," *Proc. SIGCOMM '94*, pp. 257-268, London, Sept. 1994.

[Pa95] V. Paxson, `tcp-reduce`, available in the Internet Traffic Archive [ITA], 1995.

[PF95] V. Paxson and S. Floyd, "Wide-Area Traffic: The Failure of Poisson Modeling," *IEEE/ACM Transactions on Networking*, 3(3), pp. 226-244, June 1995.

[Pa97a] V. Paxson, "End-to-End Routing Behavior in the Internet," *IEEE/ACM Transactions on Networking*, 5(5), pp. 601-615, Oct. 1997.

[Pa97b] V. Paxson, "End-to-End Internet Packet Dynamics," *Proc. SIGCOMM '97*, Cannes, France, Sep. 1997.

[Pa97c] V. Paxson, "Automated Packet Trace Analysis of TCP Implementations," *Proc. SIGCOMM '97*, Cannes, France, Sep. 1997.

[PF97] V. Paxson and S. Floyd, "Why We Don't Know How To Simulate The Internet," *Proc. 1997 Winter Simulation Conference*, Atlanta, Dec. 1997. *ftp://ftp.ee.lbl.gov/papers/wsc97.ps*

[PAMM98] V. Paxson, G. Almes, J. Mahdavi and M. Mathis, "Framework for IP Performance Metrics," RFC 2330, Internet Society, May 1998.

[PJ90] S. Pederson and M. Johnson, "Estimating Model Discrepancy," *Technometrics*, 32(3), pp. 305-314, Aug. 1990.

[RE96] B. Ryu and A. Elwalid, "The Importance of Long-Range Dependence of VBR Video Traffic in ATM Traffic Engineering: Myths and Realities," *Proc. SIGCOMM '96*, pp. 3-14, Aug. 1996.

[Sc79] D. Scott, "On optimal and data-based histograms," *Biometrika*, 66(3), pp. 605-610, 1979.

[St93] W.R. Stevens, `sock`, available via anonymous ftp from *ftp://ftp.uu.net/published/books/stevens.tcpipiv1.tar.Z*, 1993.

[TTW95] M. Taqqu, V. Teverovsky, and W. Willinger, "Estimators for Long-Range Dependence: An Empirical Study," *Fractals*, 3(4), pp. 785-798, 1995.

[WTSW95] W. Willinger, M. Taqqu, R. Sherman, and D. Wilson, "Self-Similarity Through High-Variability: Statistical Analysis of Ethernet LAN Traffic at the Source Level," *Proc. SIGCOMM '95*, pp. 100-113, Cambridge, MA, Sept. 1995.