## Bibliography


(1) A. Albanese, J. Bloemer, J. Edmonds and M. Luby, 'Priority Encoding Transmission', *35th Annual Symposium on Foundations of Computer Science*, 1994.

(2) 'FDDI Station Management Standard', ANSI X3T9.5 Revision 5.1, American National Standards Institute, September 1989.

(3) D. P. Anderson, R. G. Herrtwich and C. Schaefer, 'SRP: A Resource Reservation Protocol for Guaranteed Performance Communication in Internet', Tech. Rpt.-90-006, International Computer Science Institute, Berkeley, California, February 1990.

(4) M. Antonellini and L. Sebastiani, 'Error Rates: A Convenient Technique for Trigerring Fault Management Procedures', *Proceedings of the IFIP TC 6/WG 6.6 Symposium on Integrated Network Management*, Boston, MA, May 1989.

(5) E. Ayanoglu, C. I, R. D. Gitlin and J. E. Mazo, 'Diversity coding: Using error control for self healing in communication networks', *Proceedings of INFOCOM'90*, San Francisco, California, June 1990, 95-104.

(6) E. Ayanoglu, C. I, R.D.Gitlin and I. Bar-David, 'Analog diversity coding to provide transparent self-healing communication networks', *Proceedings of GLOBECOM'90*, San Diego, California, Dec 1990, 683-688.

(7) A. Banerjea and B. Mah, 'The Real-Time Channel Administration Protocol', *Proceedings of the 2nd International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'91)*, Heidelberg, Germany, November 1991, 160-170.

(8) A. Banerjea, E. W. Knightly, F. L. Templin and H. Zhang, 'Experiments with the Tenet Real-Time Protocol Suite on the Sequoia 2000 Wide Area Network', *Proceedings of ACM Multimedia '94*, San Francisco, October 1994, 183-192.

also available as Tech. Rpt.-94-020, International Computer Science Institute, Berkeley, CA, April 1994.

(9) A. Banerjea, D. Ferrari, B. Mah, M. Moran, D. Verma and H. Zhang, 'The Tenet Real-Time Protocol Suite: Design, Implementation, and Experiences', Tech. Rpt.-94-059, International Computer Science Institute, Berkeley, California, November 1994.

(10) M. Barezzani, E. Pedrinelli and M. Gerla, 'Protection Planning in Transmission Networks', *Proceedings of SUPERCOMM / International Conference on Communications '92*, Chicago, Illinois, June 1992.

(11) 'SONET Add-Drop Multiplex Equipment Generic Criteria for a Unidirectional Path Protection Switched Self-Healing Ring Implementation', Bellcore Technical Advisory TA-000496, Bell Communications Research, August 1990.

(12) A. Bellary and K. Mizushima, 'Intelligent Transport Network Survivability: Study of Distributed and Centralized Control Techniques using Dept. of Comp. Sci. and ADMs', *Proceedings of Globecom'90*, San Diego, California, Dec 1990, 1264-1268.

(13) R. Brown, 'Calendar Queues: A fast O(1) Priority Queue Implementation for the Simulation Event Set Problem', *Communications of the ACM 31*, 10 (October 1988), 1220-1227.

(14) R. H. Cardwell, C. L. Monma and T. Wu, 'Computer-aided Design Procedures for Survivable Fiber Optic Networks', *IEEE Journal Selected Areas in Communication 7* (1989).

(15) V. P. Chaudhary, K. R. Krishnan and C. D. Pack, 'Implementing Dynamic Routing in the Local Telephone Networks of USA', *Proceedings of ITC-13*, Copenhagen, Denmark, June 1991.

(16) C. Cheng, 'A Loop-Free Extended Bellman Ford Routing Protocol without

Bouncing Effect', *ACM Computer Communication Review 19*, 4 (1989), 224-236.

(17) S. Chiou and V. O. K. Li, 'Diversity Transmissions in a Communication network with Unreliable Components', *Proceedings of ICC'87*, Seattle, Washington, June 1987, 968-973.

(18) S. Chiou and V. O. K. Li, 'An Optimal Two-copy Routing Scheme in a Communication Network', *Proceedings of INFOCOM'88*, New Orleans, Louisiana, April 1988, 288-197.

(19) I. Cidon, I. Gopal and R. Guerin, 'Bandwidth Management and Congestion Control in PlaNET', *IEEE Communications Magazine*, October 1991, 54-64.

(20) D. Clark, S. Shenker and L. Zhang, 'Supporting Real-Time Applications in an Integrated Services Packet Network: Architecture and Mechanism', *Proceedings of ACM SIGCOMM'92*, Baltimore, Maryland, August 1992, 14-26.

(21) B. A. Coan, W. E. Leland, M. P. Vecchi, A. Weinrib and L. T. Wu, 'Using Distributed Topology Update and Preplanned Configuration to Achieve Trunk Network Survivability', *IEEE Transactions on Reliability 49*, 4 (October 1991).

(22) C. J. Colbourn and L. D. Nel, 'Using and Abusing Bounds for Network Reliability', *Proceedings of Globecom'90*, San Diego, California, Dec 1990, 663-668.

(23) G. B. Dantzig, *Linear Programming and Extensions*, Princeton University Press, Princeton, New Jersey, 1963.

(24) E. W. Dijkstra, 'A Note on Two Problems in Connection with Graphs', *Numerical Mathematics 1* (1959), 269-271.

(25) R. Doverspike, 'A Multi-Layered Model for Survivability in Intra-LATA Transport Networks', *Proceedings of IEEE GLOBECOM '91*, Phoenix, Arizona, December 1991.

(26) D. Ferrari, 'Client Requirements for Real-Time Communication Services', *IEEE Communications Magazine 28*, 11 (1990).

(27) D. Ferrari, 'Real-Time Communication in Packet-Switching Wide-Area Networks', Tech. Rpt.-89-022, International Computer Science Institute, Berkeley, California, May 1989.

(28) D. Ferrari and D. Verma, 'A Scheme for Real-Time Channel Establishment in Wide-Area Networks', Tech. Rpt.-89-036, International Computer Science Institute, Berkeley, California, May 1989.

(29) D. Ferrari, 'Real-time Communication in an Internetwork', *Journal of High Speed Networks 1*, 1 (January 1992), 79-103.

(30) D. Ferrari, A. Banerjea and H. Zhang, 'Network Support for Multimedia - A Discussion of the Tenet Approach', Tech. Rpt.-92-072, International Computer Science Institute, Berkeley, CA, October 1992.

(31) D. Ferrari, 'Distributed Delay Jitter Control in Packet-Switching Internetworks', *Journal of Internetworking: Research and Experience 4*, 1 (1993), 1-20.

(32) D. Ferrari, A. Banerjea and H. Zhang, 'Network Support for Multimedia - A Discussion of the Tenet Approach', *Computer Networks and ISDN Systems 26*, 10 (July 1994), 1267-80.

(33) S. Floyd, 'Issues in Flexible Resource Management for Datagram Networks', *Proceedings of the 3rd Workshop on Very High Speed Networks*, Maryland, March 1992.

(34) W. D. Grover, 'The Self-Healing Network: A Fast Distributed Restoration Technique for Networks using Digital Cross-connect Machines', *Proceedings of IEEE Global Telecommunications Conference*, December 1987, 28.2.1-28.2.6.

(35) R. Guerin, H. Ahmadi and M. Naghshineh, 'Equivalent Capacity and Its Application to Bandwidth Allocation in High-Speed Networks', *IEEE Journal on*

*Selected Areas in Communications 9*, 7 (September 1991), 968-981.

(36) A. Gupta and M. Moran, `Channel Groups: A Unifying abstraction for specifying inter-stream relationships', Tech. Rpt.-93-015, International Computer Science Institute, Berkeley, California, March 1993.

(37) R. G. Herrtwich, Personal communication, November 1992.

(38) J. Hyman and A. Lazar, `MARS: The Magnet II Real-Time Scheduling algorithm', *Proceedings of ACM SIGCOMM'91 Conference*, Zurich, Switzerland, September 1991, 285-293.

(39) M. Kalfane, Personal communication, October 1994.

(40) H. Komine, T. Chuja, T. Ogura, K. Miyazaki and T. Soejima, `A Distributed Restoration Algorithm for Multiple Link and Node Failures of Transport Networks', *Proceedings of IEEE Global telecommunications Conference*, December 1990, 403.4.1-403.4.5.

(41) K. R. Krishnan and T. J. Ott, `Forward Looking Routing: A New State Dependent Routing Scheme', *Proceedings of ITC-12*, Torino, Italy, June 1988.

(42) F. J. MacWilliams and N. J. A. Sloane, *The theory of error correcting codes*, North-Holland, New York, 1977.

(43) B. Mah, *Design of a Realtime Channel Administration Protocol*, University of California at Berkeley, 1993. Masters Thesis.

(44) N. F. Maxemchuk, `Dispersity Routing', *Proceedings of ICC'75*, San Francisco, California, June 1975, 41.10-41.13.

(45) S. McCanne, Personal communication, October 1994.

(46) J. McQuillan, `The New Routing Algorithm for the ARPANET', *IEEE Transactions on Communications COM-28* (May 1980).

(47) K. Menger, `Zur allgemeinen Kurventheorie', in *Fundamenta Mathematicae*, 1927, 96-115.

(48) D. Messerschmitt, Asynchronous video coding, Infonet meeting at University of California, Berkeley, 15 November 1994.

(49) P. Pancha and M. E. Zarki, `MPEG Coding for Variable Bit Rate Video Transmission', *IEEE Communications 32*, 5 (May 1994), 54-66.

(50) A. K. J. Parekh, *A Generalized Processor Sharing Approach to Flow Control in Integrated Services Networks*, Massachusetts Institute of Technology, February 1992. PhD Thesis.

(51) C. Parris, H. Zhang and D. Ferrari, Dynamic Management of Guaranteed Performance Multimedia Connections, to appear in ACM Journal of Multimedia Systems, April 1993.

(52) C. Parris and D. Ferrari, `A Dynamic Connection Management Scheme for Guaranteed Performance Services in Packet-Switching Integrated Services Networks', Tech. Rpt.-93-005, International Computer Science Institute, Berkeley, California, January 1993.

(53) C. Parris, *Dynamic Channel Management*, University of California at Berkeley. PhD Thesis.

(54) S. Rai and S. Soh, `A Computer Approach for Reliability Evaluation of Telecommunication Networks with Heterogeneous Links', *IEEE Transactions on Reliability 49*, 4 (October 1991).

(55) T. Rodeheffer and M. D. Schroeder, Automatic Reconfiguration in Autonet, Lecture at University of California, Berkeley, September 1992.

(56) H. Sakauchi, Y. Nishimura and S. Hasegawa, `A Self-healing Network with an Economic Spare-Channel Assignment', *Proceedings of IEEE Global Telecommunications Conference*, December 1990, 403.1.1-403.1.6.

(57) M. Schroeder, A. Birell, M. Burrows, H. Murray, R. Needham, T. Rodeheffer, E. Satterthwaite and C. Thacker, `Autonet: A High-Speed Self-Configuring Local

Area Network Using Point-To-Point Links', *IEEE Journal Selected Areas in Communication 9*, 8 (October 1991), 1318-1335.

(58) M. Schroeder, Circuit Management in AN2, Lecture at University of California, Berkeley, October 1992.

(59) K. G. Shin, `HARTS - A Distributed Real-time Architecture', *Computer 24*, 5 (May 1991), 25-35.

(60) M. Stoer, *Design of Survivable Networks*, Springer-Verlag, 1991.

(61) R. E. Tarjan, *Data Structures and Network Algorithms*, Society for Industrial and Applied Mathematics, Philadelphia, Pennsylvania, 1983.

(62) D. Taubman and A. Zakhor, `Highly Scalable, Low Delay Video Compression', *IEEE International Conference on Image Processing*, November 1994.

(63) C. Vogt, R. Herrtwich and R. Nagaragan, `HeiRAT - The Heidelberg Resource and Administration Technique: Design Philosophy and Goals', IBM Technical Report No. 43.9243 , IBM ENC, Heidelberg, Germany, 1992.

(64) C. H. Yang and S. Hasegawa, `FITNESS: Failure Immunization Technology for Network Service Survivability', *Proceedings of IEEE Global Telecommunications Conference*, November/December 1988, 47.3.1-47.3.6.

(65) M. Yoshida and H. Okazaki, `New Planning Architecture for Reliable and Cost-effective Network Design', *Proceedings of ITC-12*, Torino, Italy, June 1988.

(66) M. Yoshida and H. Okazaki, `Cooperative Control over Logical and Physical Networks for Multiservice Environments', *IEICE Transactions E.74*, 12 (December 1991).

(67) W. T. Zaumen and J. J. Garcia-Luna-Aceves, `Dynamics of Distributed Shortest-Path Routing Algorithms', *Computer Communications Review 21*, 4 (September 1991), ACM Press.

(68) L. Zhang, *A New Architecture for Packet Switched Network Protocols*, Massachusetts Institute of Technology, July 1989. PhD Thesis.

(69) H. Zhang and T. Fisher, 'Preliminary Measurement of RMTP/RTIP', *Proceedings of the Third International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'92)*, San Diego, CA, November 1992.

(70) L. Zhang, S. Deering, D. Estrin, S. Shenker and D. Zappala, 'RSVP: A New Resource Reservation Protocol', *IEEE Communications Magazine 31*, 9 (September 1993), 8-18.

(71) H. Zhang and D. Ferrari, 'Rate-Controlled Static Priority Queueing', *Proceedings of IEEE INFOCOM'93*, San Francisco, California, April 1993, 227-236.

(72) H. Zhang, *Service Disciplines for Integrated Services Packet-Switching Networks*, University of California at Berkeley, November 1993. PhD Thesis, Tech. Rpt.-UCB/CSD-94-788.

(73) Q. Zheng and K. G. Shin, 'Fault-tolerant real-time communication in distributed computing systems', *Proceedings of the 22nd International Symposium on Fault-Tolerant Computing*, Boston, MA, July 1992.

(74) Q. Zheng and K. G. Shin, Establishment of Isolated Failure Immune Real-Time Channels in HARTS, to appear in *IEEE Transactions on Parallel and Distributed Systems*.