REFERENCES

[1] Guérin, R. et al., Sept. 1991. Equivalent Capacity and Its Application to Bandwidth Allocation in High Speed Networks. *IEEE J.Select. Areas Commun.*, Vol.9, No.7, pp.966-981.

[2] Saito, H. 1994. *Teletraffic Technologies in ATM Networks*. Artech House, Boston.

[3] O'Brien, J.A. 1999. *Management Information Systems*. 4th Edition. Arizona, McGraw-Hill Companies, Inc.

[4] Stallings, W. 1998. *High-Speed Networks: TCP/IP and ATM Design Principles*. Prentice-Hall, Inc.

[5] ATM Technology. *http://www.esrf.fr/computing/cs/nice/impl/atm/*. 1997. Rudolf Dimper.

[6] ATM Internetworking. *http://www.cisco.com/warp/public/614/*. 1998. Cisco System, Inc.

[7] Jain, R. 1996. Congestion Control and Traffic Management in ATM Networks: Recent Advances and A Survey. *IEEE Communications Magazine*, Vol.5, No.1, pp.21-24.

[8] Siu, K.Y. and Jain, R. April 1995. A Brief Overview of ATM: Protocol Layers, LAN Emulation, and Traffic Management. *Computer Communication Review (ACM SIGCOMM)*, Vol25, No.2, pp.6-28.

[9] Hallsall, F. 1996. *Data Communications, Computer Networks and Open Systems*. 4th Edition. Addison-Wesley Publishers Ltd.

[10] Benham, D. 1994. *ATM in Local Area Network: A Tutorial*. Hughes LAN System.

[11] Jain, R. 1992. Myths about Congestion Management in High Speed Networks. *Internetworking: Research and Experience*. Vol.3, pp.101-113.

[12] Jaffe, J. Bottleneck Flow Control. *IEEE Trans. Comm.*, Vol.COM-29, No.7, pp.954-962.

[13] Jain, R., Chiu, D., and Hawe, W.1984. A Quantitative Measure of Fairness and Discrimination for Resource Allocation in Shared Systems. *DEC TR-301.*

[14] Jain, R. 1991. *The Art of Computer Systems Performance Analysis.* John Wiley & Sons, New York.

[15] Jain, R. 1992. The Congestion Control in Computer Networks: Issues and Trends. *IEEE Network Magazine.* pp.24-30.

[16] Hughes, D., and Daley, P. 1994. More ABR Simulation Results. *AF-TM 94-0777.*

[17] Boyer, P.E. and Tranchier, D.P. 1992. A reservation Principle with Application to the ATM Traffic Control. *Computer Networks and ISDN Systems*, Vol.24, pp.321-334.

[18] Kataria, D. 1994. Comments on Rate-Based Proposal. *AF-TM 94-0384.*

[19] Newman, P. and Marshall, G. 1993. BECN Congestion Control. *AF-TM 94-789R1.*

[20] Newman, P. and Marshall, G. 1993. Update on BECN Congestion Control. *AF-TM 94-855R1.*

[21] Newman, P. 1994. Traffic Management for ATM Local Area Networks. *IEEE Communications Magazine*, pp.44-50.

[22] Ramanov, A. 1994. A Performance Enhancement for Packetised ABR and VBR Data. *AF-T 940295.*

[23] Tzeng, H. and Siu, K. 1994. Enhanced Credit-Based Congestion Notification (ECCN) Flow Control for ATM Networks. *AF-TM 94-0450.*

[24] Lyles, B. and Lin, A. 1994. Definition and Preliminary Simulaiton for Rate-Based Congestion Control Mechanism with Explicit Feedback of Bottleneck Rates. *AF-TM 94-0708.*

[25] Kung, H.T. 1994. Flow Controlled Virtual Connections proposal for ATM Traffic Management. *AF-TM 94-0632R2*.

[26] Scott, J. et al. 1994. Link by Link, Per VC Credit Based Flow Control. *AF-TM 94-0168*.

[27] Jain, R., Ramakrishnan, K.K. and Chiu, D.M. 1987. Congestion Avoidance in Computer Networks with a Connectionless Network Layer. *Digital Equipment Corporation, Technical Report*, DEC-TR-506, pp.17.

[28] Charny, A. 1994. An Algorithm for Rate Allocation in A Cell-Switching Network with Feedback. Master's Thesis, Massachusetts Institute of Technology.

[29] Roberts, L. 1994. Enhanced PRCA (Proportional Rate-Control Algorithm). *AT-TM 94-0735R1*.

[30] Roberts, L. et al. 1994. New Pseudocode for Explicit Rate Plus EFCI Support. *AF-TM 94-0974*.

[31] Roberts, L. 1994. Rate-based Algorithm for Point to Multipoint ABR Service. *AF-TM 94-0772R1*.

[32] Kosko, B. 1992. *Neural Networks and Fuzzy System A Dynamical Systems Approach to Machine Intelligence*. Prentice Hall International, Inc.

[33] Haykin, S. 1999. *Neural Networks A Comprehensive Foundation*. 2nd Edition. Prentice Hall International, Inc.

[34] Cichocki, A. and Unbehauen, R. 1993. *Neural Networks for Optimization and Signal Processing*. John Wiley& Sons Ltd.

[35] Moody, T.J. and Darken, C.J. 1989. Fast Learning in Networks of Locally Tuned Processing Units. *Neural Computation*, Vol.1, pp.151-160.

[36] Weigend, A.S. et al. 1990. Predicting the Future: A Connectionist Approach. *Int. Journal of Neural System.* Vol.1, pp.193-209.

[37] Farmer, J.D. and Sidorowich, J.J. 1987. Predicting Chaotic Time Series. *Phys. Rev. Lett.* Vol.59, pp.845-849.

[38] Box, G. and Jenkins, G. 1976. *Time Series Analysis, Forecasting and Control.* San Francisco: Holden Day.

[39] Teodorescu,D. 1990. Time Series-Information and Prediction. *Biol. Cybern.* Vol.63, pp.447-485.

[40] Makhoul, J. 1975. Linear Prediction: A Tutorial Review. *Proc. IEEE.* Vol.63. pp.561-580.

[41] Wong, F.S. 1991. Time Series Forecasting Using Backpropagation Neural Networks. *Neurocomputing.* Vol.2, pp.147-159.

[42] Neumann, J and Stenberg, J. 1995. *Adaptive Routing in ATM with Neural Networks.* Master's Thesis, Royal Institute of Technology, Sweden.

[43] Demuth, H. and Beale, M. 1998. *Neural Network Toolbox.* The Math Works, Inc.

[44] Catania, V. et al. 1996. A comparative Analysis of Fuzzy Versus Conventional Policing Mechanisms for ATM Networks. *IEEE/ACM Transactions on Networking.* Vol.4, pp.449-459.

[45] Esaki, H. et al. 1994. Connection Admission Control in ATM Networks. *IEICE Trans. Commun.* Vol.E-77B, pp.15-27.

[46] Ling, L.S. et al. 1993. A Quick Admission Control Strategy Based on Simulation and Regression Approach. *IEICE Trans. Commun.* Vol.E76-B, No.3, pp.263-269.

[47] Tan, J.S. 2000. Load Balancing and Congestion Control using Neural-Fuzzy ALgorithms, Master's Thesis, Faculty pf Computer Science and Information Technology, University of Malaya.

[48] Zadeh, L.A. 1965. Fuzzy Sets. *Information and Control.* Vol.8, pp.335-353.

[49] Douligeris, C. and Develekos, G. 1997. Neuro-Fuzzy Control in ATM Networks. *IEEE Comm. Magazine.* Vol.5, pp.154-162.

[50] Yu, E.S. and Chen, C.Y.R. 1993. Traffic Prediction Using Neural Networks, in, *Proceedings IEEE GLOBECOM'93.* pp.991-995.

[51] Mehvar, H.R. and Le-Ngoc, T. 1995. A Neural Network Approach for Congestion Control in Packet Switch OBP Satellite, in, *Proceedings ICC '95, Seattle, WA.*

[52] Sriram, K. 1992. Methodologies for Bandwidth Allocation, Transmission Scheduling, and Congestion Avoidance in Broadband ATM Networks, in, *Global Telecommunications Conference, GLOBECOM '92.* Vol.3, pp.1545 –1551.

[53] Tsai, Z. et al. 1993. A Dynamic Bandwidth Allocation Scheme for ATM Networks, in, *Twelfth Annual International Computers and Communications Conference, Phoenix.* pp.289 –295.

[54] Ohta, S. and Sato, K.I. 1992. Dynamic Bandwidth Control of the Virtual Path in an Asynchronous Transfer Mode Network. *IEEE Trans. Commun.* Vol.40, No.7, pp.1239-1247.

[55] Ois, S. et al. 1986. A Dynamically Controllable ATM Transport Network Based on the Virtual Path Concept, in, *Proceedings GLOBECOM '86.* pp.29.2.1-39.2.5.

[56] Sato, K.I. et al. 1990. Broad-band ATM Network Architecture Based on Virtual Paths. *IEEE Trans. Commun..* Vol.38, No.8, pp.1212-1222.

[57] Han, Z. et al. 1995. A New Dynamic Bandwidth Allocation Scheme for ATM Networks, in, *Electrotechnology 2000: Communications and Networks. [in conjunction with the] International Conference on Information Engineering, Proceedings of IEEE, Singapore.* pp.91 –95.

[58] Lombardo, A. et al. 1991. Admission Control Over Mixed Traffic in ATM Networks. *Internation Journal of digital and analog comm. systems.* Vol. 3, pp.155-159.

[59] Afek, Y. et al. 1996. Dynamic Bandwidth Allocation Policies, in, *INFOCOM '96, Fifteenth Annual Joint Conference of the IEEE Computer Societies, San Francisco.* Vol.2, pp.880 –887.

[60] Saran, H. and Keshav, S. 1994. An Empirical Emulation of Virtual Circuit Holding Times in IP-over-ATM Networks, in, *Proceedings Infocom.*

[61] Juang, B.B. and Rabiner, L.R. 1986. An Introduction to Hidden Markov Models. *IEEE Magazine.*

[62] Saito, H. 1997. Trials of Dynamic Bandwidth Allocation in ATM Networks, in, *IEEE ATM Workshop 1997, Proceedings.* pp.141 –146.

[63] Saito, H. et al. 1996. Innovations of Circuit/Path Operations in ATM Networks – Self-Sizing Network. *NTT Review.* Vol.8, No.1, pp.56-65.

[64] Saito, H. 1996. Measurement-Driven Traffic Technologies in ATM Networks. *NTT Review.* Vol.8, No.1, pp.51-55.

[65] Saito, H. 1996. Bayesian Performance Estimation Driven by Performance Monitoring and Its Application. *IEICE Trans.* Vol.E79-B, no.1, pp.1-7.

[66] Ohta, S. and Sato, K. 1992. Dynamic Bnadwidth Control of the Virtual Path in an Asynchronous Transfer Mode Network. *IEEE Trans. Commun.*, Vol.40, no.7, pp.1239-1247.

[67] Fahmy, S. et al.1998. On Determining the Fair Bandwidth Share for ABR Connections in ATM Networks, in, *IEEE International Communications Conference, ICC 98.* Vol.3, pp.1485 –1491.

[68] Charny, A. et al. 1995. Congestion Control with Explicit Rate Indication, in, *Proceedings of ICC' 95.* pp.10-16.

[69] REFORM Deliverable D1. 1997. REFORM System Requirements and Analysis. *A208/BELL/WP1/DS/P/002/b1.*

[70] REFORM Deliverable D7. 1997. Description of Self-Healing Mechanisms, Load Balancing and Dynamic Routing Capabilities of the REFORM System.

[71] Sartzetakis, S. et al. 1997. Unified Fault, Resource Management and Control in ATM-based IBCNs, in, *"Integrated Network Management V: Integrated Management in a Virtual World", Proceedings of the 5th IFIP/IEEE International Symposium on Integrated Network Management, London, UK.*

[72] Griffin, D. and Verdier, M. 1998. Dynamic Bandwidth Management in ATM Networks, in, *Proceedings of 3rd Telecommunications Research Symposium, University College London, UK.*

[73] Biswas, S.K. and Izmailov, R. 1998. Design of A Fair Bandwidth Allocation Policy for VBR Traffic in ATM Networks, in, *Global Telecommunications Conference, GLOBECOM 1998. The Bridge to Global Integration. IEEE.* Vol.4 , pp.2425 –2431.

[74] Kraimeche, B. and Schwartz, M. 1986. Bandwidth Allocation Strategies in Wide-Band Integrated Networks. *IEEE Journal on Selected Areas in Communications.* Vol.SAC-4, no.6.

[75] Cohen, J. 1987. A Two-Queue, One Server Model with Priority for the Longer Queue. *Queueing Systems.* Vol.2.

[76] Lee, D.S. 1997. A Generalized Longest Queue First: An Adaptive Schedulling Discipline for ATM Networks, in, *Proceedings of IEEE INFOCOM' 97, Kobe, Japan.*

[77] Chowdhury, S. and Sohraby, K. 1992. Alternative Bandwidth Allocation Algorithms for Packet Video in ATM Networks, in, *Proceedings of IEEE INFOCOM '92, Milan, Italy.*

[78] Biswas, S.K. et al. 1997. UPC Based Bandwidth Allocation for VBR Video in Wireless ATM Links, in, *Proceedings of ICC '97, Montreal, Canada.*

[79] Arvidsson, A. 1995. On the Usage of Virtual Paths, Virtual Channels, and Buffers in ATM Traffic Management, in, *Proceedings of The 12th Norde Teletraffic Sem., Helsinki, Finland.* paper no. 10.3.

[80] Tedijanto, T.E. and Gun, L. 1993. Effectiveness of Dynamic Bandwidth Management Mechanisms in ATM Networks, in, *INFOCOM '93, Proceedings. Twelfth Annual Joint Conference of the IEEE Computer and Communications Societies. Networking: Foundation for the Future.* Vol.1, pp.358 –367.

[81] Xiao, N. et al. 1993. Dynamic Bandwidth Allocation in Integrated Communication Networks, in, *Global Telecommunications Conference, 1993, including a Communications Theory Mini-Conference. Technical Program Conference Record, IEEE in Houston. GLOBECOM '93.* Vol. 3, pp.1558 –1562.

[82] Sriram, K. 1992. Methodologies for Bandwidth Allocation, Transmission Scheduling, and Congestion Avoidance in Broadband ATM Networks ,in, *Global Telecommunications Conference, 1992. Conference Record., GLOBECOM '92. Communication for Global Users.* Vol.3, pp.1545 –1551.

[83] Jamshidi, M. et al. 1993. *Fuzzy Logic and Control.* Prentice Hall, Inc.

[84] Gesa, R.F. 1998. *Congestion Probability Routing in Virtual Path ATM Networks.* Master's Thesis, Department Electrónica, Informática iAutomática, Institut d'Informática iApplication, Spain.

[85] Bolla, R. et al. 1998. An Adaptive Neural Network Admission Controller for Dynamic Bandwidth Allocation. *Systems, Man and Cybernetics, Part B, IEEE Transactions.* Vol.284, pp.592 –601.

[86] Maglaris, B.S. and Schwartz, M. 1982. Optimal Fixed Frame Multiplexing in Integrated Line and Packet Switched Communication Networks. *Theory, IEEE Trans. Inform.* Vol.IT-28, pp.273-283

[87] Viniotis, L. and Ephremides, A. 1987. Optimal Switching of Voice and Data at a Network Node, in, *Proceedings 26th IEEE Conf. Decision Control, Los Angeles, CA.* pp.1504-1507.

[88] Zukerman, 1989. Bandwidth Allocation for Bursty Isochronous Traffic in a Hybrid Switching System. *ISSS Trans. Commun.* Vol.37, pp.1367-1371.

[89] Ross, K.W. and Tsang, H.K. 1989. Optimal Circuit Access Policies in an ISDN Environment: A Markov Decision Approach. *IEEE Trans. Commun.* Vol.37, pp.934-939.

[90] Meempat, G. and Sundareshan, M. 1993. Optimal Channel Allocation Policies for Access Control for Circuit-Switched Traffic in ISDN Environment. *IEEE Trans. Commun.* Vol.41, pp.338-350.

[91] Bolla, R. and Davoli, F. 1997. Control of Multirate Synchronous Streams in Hybrid TDM Access Networks. *IEEE/ACM Trans. Networking.* Vol.5, pp.291-304.

[92] Bolla, R. et al. 1995. Neural Approximations of Optimal Allocation Policies for Hybrid Multiplexing, in, *Proceedings IEEE Globecom '95, Singapore.* Pp.1327-1331.

[93] Hiramatsu, A. 1990. ATM Communications Network Control by Neural Networks. *IEEE Trans. Neural Network.* Vol.1, pp.122-130.

[94] Youssef, S.A. et al. 1997. A Neurocomputing Controller for Bandwidth Allocation in ATM Networks. *IEEE J. Select. Areas Commun.* Vol.12, pp.191-199.

[95] Liu, Y.C. and Doulingeris, C. 1997. Rate Regulation with Feedback Controller in ATM Networks – A Neural Network Approach. *IEEE J. Select. Areas Commun.* Vol.15, pp.200-208.

[96] Barron, A.R. 1993. Universal Approximation Bounds for Superpositions of a Sigmoid Function. *Theory IEEE Trans. Inform.* Vol.39, pp.930-945.

[97] Parisini, T. and Zappoli, R. 1994. Neural Networks for Feedback Feedforward Nonlinear Control Systems. *IEEE Trans. Neural Networks.* Vol.5, pp.436-449.

[98] Girosi, F. 1994. Regularization Theory, Radial Basis Functions and Networks, in, *From Statistics to Neural Networks. Theory and Pattern Recognition Applications, Berlin, Germany.*

[99] Jones, L.K. 1992. A Simple Lemma on Greedy Approximation in Hilbert Space and Convergence Rates for Projection Pursuit Regression and Neural Network Training. *Ann. Statist.* Vol.20, pp.608-613.

[100] Parisini, T. and Zoppoli, R. 1993. Team Theory amd Neural Networks for Dynamic Routing in Traffic and Communication Networks. *Inf. Decis. Technol.* Vol.19, pp.1-18

[101] Serfozo, R. 1979. An equivalence between Continuous and Discrete Time Markov Decision Processes. *Oper. Rev.* Vol.27, pp.616-620.