

Curriculum Vita

Masayuki Murata

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2. Education

Diploma: Kishiwada High School

4/75 – 3/78

Kishiki-cho, Kishiwada, Osaka 596, Japan

B.S.: Department of Information and Computer Sciences

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Faculty of Engineering Science

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M.S.: Department of Information and Computer Sciences

4/82 – 3/84

Graduate School of Engineering Science

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3. Dr. of Engineering Thesis

Doctor of Engineering in Information and Computer Sciences
“Studies on Performance Evaluation of Token Ring Networks”
Osaka University, Osaka, Japan, in March 1988.

4. Employment

4/84 – 12/86:	Associate Researcher Communication Network Group Japan Science Institute, IBM Japan Ltd., Tokyo, Japan
1/87 – 2/87:	Researcher Distributed Systems Group Tokyo Research Laboratory, IBM Japan Ltd., Tokyo, Japan
3/87 – 8/87:	Researcher Foundations of Systems Group Tokyo Research Laboratory, IBM Japan Ltd., Tokyo, Japan
9/87 – 1/89:	Assistant Professor Computation Center Osaka University, Osaka, Japan
2/89 – 8/91:	Assistant Professor Department of Information and Computer Sciences Faculty of Engineering Science Osaka University, Osaka, Japan
8/91 – 11/92:	Lecturer Department of Information and Computer Sciences Faculty of Engineering Science Osaka University, Osaka, Japan
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5. Publications

5.1. Publications in Refereed Journals

- [1] Kouhei Fujimoto, Shingo Ata and Masayuki Murata, "Statistical Analysis of Packet Delays in the Internet and its Application to Playout Control for Streaming Applications," to appear in *IEICE Transactions on Communications*, June 2001.
- [2] Chikara Ohta, Tetsuya Takine and Masayuki Murata, "Bounded-Delay and Loss-Free Guarantees for Real-Time Video in Integrated Services Packet Networks," to appear in *International Journal of Communication Systems*, 2001.
- [3] Go Hasegawa and Masayuki Murata, "Survey on Fairness Issues in TCP Congestion Control Mechanisms," to appear in *IEICE Transactions on Communications*, January 2001.
- [4] Kazumine Matoba, Shingo Ata and Masayuki Murata, "Improving Accuracy of Bandwidth Estimation for Internet Links by Statistical Methods," to appear in *IEICE Transactions on Communications*, June 2001.
- [5] Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "Comparison of VBR and CBR Service Classes for MPEG-2 Video Multiplexing - Is Statistical Multiplexing Really Useful for Bursty Video Transmission? -," *International Journal of Communication Systems*, Vol. 14, March 2001.
- [6] Atsushi Nagate, Masashi Sugano, Masayuki Murata and Hideo Miyahara, "Impact of Limited Number of Wired Channels on Soft Handoff in CDMA Cellular Systems," *IEICE Transaction on Communications*, Vol. E84-B, No. 3, March 2001.
- [7] Doo Seop Eom, Masashi Sugano, Masayuki Murata and Hideo Miyahara, "Performance Improvement by Packet Buffering in Mobile IP Based Networks," *IEICE Transactions on Communications*, Vol. E83-B, No. 11, pp. 2501-2512, November 2000.
- [8] Go Hasegawa, Masayuki Murata and Hideo Miyahara, "Fairness and Stability of Congestion Control Mechanisms of TCP," *Telecommunication Systems Journal*, pp. 167-184, November 2000.
- [9] Masayuki Murata, "Challenges for the Next Generation Internet and the Role of IP over Photonic Networks," *IEICE Transactions on Communications*, Vol. E83-B, No. 10, October 2000. (Invited Paper).
- [10] Kazuhiro Gokyu, Ken-ichi Baba and Masayuki Murata, "Path Accommodation Methods for Unidirectional Rings with Optical Compression TDM," *IEICE Transactions on Communications*, Vol. E83-B, No. 10, pp. 2294-2303, October 2000.
- [11] Shin'ichi Arakawa, Masayuki Murata, Hideo Miyahara, "Functional Partitioning for Multi-Layer Survivability in IP over WDM Networks," *IEICE Transactions on Communications*, pp. 2224-2233, No. 10, October 2000.
- [12] Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "On Video Coding Algorithms with Applica-

- tion Level QoS Guarantees,” *Computer Communication Journal*, Vol. 23, No. 8, pp. 1459-1470, August 2000.
- [13] Shingo Ata, Masayuki Murata and Hideo Miyahara, “Analysis of Network Traffic and its Application to Design of High-Speed Routers,” *IEICE Transactions on Information and Systems*, Vol. E83-D, No. 5, pp. 988-995, May 2000.
 - [14] Go Hasegawa, Masayuki Murata and Hideo Miyahara, “Performance Evaluation of HTTP/TCP on Asymmetric Networks,” *International Journal of Communication Systems*, Vol. 12, No. 4, pp. 281-296, July-August 1999.
 - [15] Hiroaki Harai, Masayuki Murata and Hideo Miyahara, “Heuristic Algorithm of Allocation of Wavelength Convertible Nodes and Routing Coordination in All-Optical Networks,” *IEEE Journal of Light-wave Technology*, Vol. 17, No. 4, pp. 535-545, April 1999.
 - [16] Doo Seop Eom, Masashi Sugano, Masayuki Murata and Hideo Miyahara, “Call Admission Control for QoS Provisioning in Multimedia Wireless ATM Networks,” *IEICE Transactions on Communications*, Vol. E82-B, No. 1, pp. 14-23, January 1999.
 - [17] Masahiko Nabe, Masayuki Murata and Hideo Miyahara, “Analysis and Modeling of World Wide Web Traffic for Capacity Dimensioning of Internet Access Lines,” *Performance Evaluation*, Vol. 34, No. 4, pp. 249-271, December 1998.
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 - [19] Hiroyuki Ohsaki, Masayuki Murata and Hideo Miyahara, “Parameter Tuning of Rate-Based Congestion Control Algorithm for ABR Service Class in ATM Networks,” *International Journal of Communication Systems*, Vol. 11, No. 2, pp. 103-128, March-April 1998.
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 - [23] Masayuki Murata, “Requirements on ATM Switch Architectures for Quality-of-Service Guarantees,” *IEICE Transactions on Communications*, Vol. E81-B, No. 2, February 1998. (Invited Paper).
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- Routing for Virtual-Path Based ATM Networks,” *IEICE Transactions on Communications*, Vol. E80-B, No. 11, pp. 1654-1663, November 1997.
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 - [26] Go Hasegawa, Hiroyuki Ohsaki, Masayuki Murata and Hideo Miyahara, “Performance Improvement of TCP over EFCI-based ABR Service Class by Tuning of Congestion Control Parameters,” *IEICE Transactions on Communications*, Vol. E80-B, No. 10, pp. 1444-1453, October 1997.
 - [27] Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, “MPEG over ATM DBR Service Class for High Quality Transmission and Effective Bandwidth Usage,” *International Journal of Communication Systems*, Vol. 10, No. 3, pp. 117-130, May-June 1997.
 - [28] Hiroyuki Ohsaki, Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, “Performance of an Input/Output Buffered-Type ATM LAN Switch with Back-pressure Function,” *IEEE/ACM Transactions on Networking*, Vol. 5, No. 2, pp. 278-290, April 1997.
 - [29] Manabu Kato, Yuji Oie, Masayuki Murata and Hideo Miyahara, “Performance Analysis of Reactive Congestion Control based upon Queue Length Threshold Values,” *Performance Evaluation*, Vol. 29, pp.105-125, 1997.
 - [30] Hideyuki Shimonisi, Tetsuya Takine, Masayuki Murata and Hideo Miyahara, “Performance Analysis of Fast Reservation Protocol in ATM Networks with Arbitrary Topologies,” *Performance Evaluation*, Vol. 27&28, pp.41-69, October 1996.
 - [31] Hideyuki Shimonisi, Tetsuya Takine, Masayuki Murata and Hideo Miyahara, “Performance Analysis of Fast Reservation Protocol in ATM Networks,” *Performance Evaluation*, Vol. 26, No. 4, pp. 263-287, October 1996.
 - [32] Byunghan Ryu, Masayuki Murata and Hideo Miyahara, “Design Method for Highly Reliable Virtual Path Based ATM Networks,” *IEICE Transactions on Communications*, Vol. E79-B, No. 10, pp. 1500-1516, October 1996.
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- [42] Yoshihiro Ohba, Masayuki Murata and Hideo Miyahara, "Analysis of Dynamic Bandwidth Control for LAN Interconnection through ATM Networks," *IEICE Transactions on Communications*, Vol. E77-B, No. 3, pp. 367-377, March 1994.
- [43] Masayuki Murata and Hideo Miyahara, "LAN Internetworking through Broadband ISDN," *IEICE Transactions on Communications*, Vol. E77-B, No. 3, pp. 294-305, March 1994. (Invited Paper).
- [44] Changhuan Oh, Masayuki Murata and Hideo Miyahara, "Circuit Emulation Technique in ATM Networks," *IEICE Transactions on Communications*, Vol. E76-B, No. 6, pp. 646-657, June 1993.
- [45] Hiroshi Inai, Manabu Kato, Yuji Oie, Masayuki Murata and Hideo Miyahara, "Transient Analysis of Packet Transmission Rate Control to Release Congestion in High Speed Networks," *IEICE Transactions on Communications*, Vol. E75-B, No. 12, pp. 1354-1366, December 1992.
- [46] Hiroshi Inai, Masayuki Murata and Hideo Miyahara, "Rate-Based Congestion Control in High Speed Packet-Switching Networks," *IEICE Transactions on Communications*, Vol. E75-B, No. 11, pp. 1199-1207, November 1992.
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- [48] Yuji Oie, Masayuki Murata, Koji Kubota and Hideo Miyahara, "Performance Analysis of Nonblocking Packet Switch with Input/Output Buffers," *IEEE Transactions on Communications*, Vol. 40, No. 8, pp.

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- [49] Yoshihiro Ohba, Masayuki Murata and Hideo Miyahara, "Analysis of Flow Enforcement Algorithm for Bursty Traffic in ATM Networks," *Asia-Pacific Engineering Journal*, Vol. 2, No. 2, pp. 247-268, June 1992.
- [50] Masayuki Murata and Hideaki Takagi, "Performance of Token Ring Networks with a Finite Capacity Bridge," *Computer Networks and ISDN Systems -The International Journal of Computer and Telecommunications Networking-*, Vol. 24, No. 1, pp. 45-64, March 1992.
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- [53] Yoshihiro Ohba, Masayuki Murata and Hideo Miyahara, "Analysis of Interdeparture Times for Bursty Traffic in ATM Networks," *IEEE Journal on Selected Areas in Communications*, Vol. 9, No. 3, pp. 468-476, March 1991.
- [54] Masayuki Murata, Kohei Shiimoto and Hideo Miyahara, "Performance Analysis of Token Ring Networks with Reservation Priority Disciplines," *IEEE Transactions on Communications*, Vol. 38, No. 10, pp. 1844-1853, October 1990.
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- [56] Masayuki Murata and Hideaki Takagi, "Two-Layer Modeling for Local Area Networks," *IEEE Transactions on Communications*, Vol. 36, No. 9, pp. 1022-1034, September 1988.
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5.2. Publications in Conference Proceedings

- [1] Masaki Miyabayashi, Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "MPEG-TFRCP: Video Transfer with TCP-Friendly Rate Control Protocol," to be presented at *IEEE International Conference on Communications 2001 (ICC 2001)*, June 2001.
- [2] Shingo Ata, Masayuki Murata and Hideo Miyahara, "Efficient Cache Structures of IP Routers to Provide Policy-based Services," to be presented at *IEEE International Conference on Communications 2001 (ICC 2001)*, June 2001.
- [3] Keiichi Takagaki, Hiroyuki Ohsaki and Masayuki Murata, "Analysis of a Window-Based Flow Control Mechanism based on TCP Vegas in Heterogeneous Network Environment," to be presented at *IEEE International Conference on Communications 2001 (ICC 2001)*, June 2001.
- [4] Kouhei Fujimoto, Shingo Ata and Masayuki Murata, "Playout Control for Streaming Applications by Statistical Delay Analysis," to be presented at *IEEE International Conference on Communications 2001 (ICC 2001)*, June 2001.
- [5] Masahiro Miyoshi, Masashi Sugano and Masayuki Murata, "Performance Evaluation of TCP Throughput on Wireless Cellular Networks," to be presented at *IEEE VTC 2001 Spring*, May 2001.
- [6] Ken-ichi Kitayama and Masayuki Murata, "Packet-Selective Photonic Add/Drop Multiplexer and its Application to Ultra High-Speed Optical Data Networking in LAN and MAN," *Proceedings of The Fifth Working Conference on Optical Network Design and Modeling*, February 2001.
- [7] Junichi Katou, Shin'ichi Arakawa and Masayuki Murata, "A Design Method of Logical Topology for IP over WDM Networks with Stable Routing," *Proceedings of The Fifth Working Conference on Optical Network Design and Modeling*, February 2001.
- [8] Masashi Sugano, Tsutomu Araki, Masayuki Murata, Takaaki Hatauchi and Yohei Hosooka, "Performance Evaluation of a Wireless Ad Hoc Network: Flexible Radio Network (FRN)," *Proceedings of 2000 IEEE International Conference on Personal Wireless Communications*, (Hyderabad), pp. 350-354, December 2000.
- [9] Go Hasegawa, Kenji Kurata and Masayuki Murata, "Analysis and Improvement of Fairness between TCP Reno and Vegas for Deployment of TCP Vegas to the Internet," *Proceedings of IEEE International Conference on Network Protocols (ICNP) 2000*, pp. 177-186, November 2000.
- [10] Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "TCP-Friendly Video Transfer," *Proceedings of SPIE International Symposium on Information Technologies 2000*, (Boston), November 2000.
- [11] Taketo Yamashita, Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "Implementation and Evaluation of Integrated Resource Allocation Scheme for Real-Time Video Transfer to Maximize Users' Utility," *Proceedings of APCC 2000*, (Seoul), pp. 390-394, October-November 2000.
- [12] Atsushi Nagate, Masashi Sugano, Masayuki Murata and Hideo Miyahara, "The Effect of Three-way

- Soft Handoff for Integrated Evaluation in CDMA Mobile Cellular Systems,” *Proceedings of APCC 2000*, (Seoul), pp. 617-621, October-November 2000.
- [13] Shin’ichi Arakawa, Masayuki Murata, Hideo Miyahara, “Design Methods of Multi-Layer Survivability in IP over WDM Networks,” *Proceedings of OptiComm 2000*, pp. 279-290, October 2000
 - [14] Kazuhiro Gokyu, Ken-ichi Baba and Masayuki Murata, “Path Setup Algorithms for Uniform/Nonuniform Traffic in Unidirectional Optical Compression TDM Rings,” *Proceedings of SPIE Opticomm 2000*, pp. 98-109, October 2000.
 - [15] Hector Akamine, Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, “An Approach for Heterogeneous Video Multicast using Active Networking,” *Proceedings of Second International Working Conference on Active Networks (IWAN 2000)*, (Tokyo), pp. 157-170, October 2000.
 - [16] Atsushi Nagate, Masashi Sugano, Masayuki Murata and Hideo Miyahara, “An Integrated Approach for Performance Modeling and Evaluation of Soft Handoff in CDMA Mobile Cellular Systems,” *Proceedings of VTC Fall 2000*, (Boston), September 2000.
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 - [18] Kazumine Matoba, Shingo Ata and Masayuki Murata, “Improving Accuracy of Bandwidth Estimation for Internet Links by Statistical Methods,” *Proceedings of 13th ITC Specialist Seminar*, pp. 29.1-29.10, September 2000.
 - [19] Takahiro Matsuo, Go Hasegawa and Masayuki Murata, “Scalable Automatic Buffer Tuning to Provide High Performance and Fair Service for TCP Connections,” *Proceedings of INET 2000*, July 2000.
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 - [21] Kenji Kurata, Go Hasegawa, Masayuki Murata, “Fairness Comparisons between TCP Reno and TCP Vegas for Future Deployment of TCP Vegas,” *Proceedings of INET 2000*, July 2000.
 - [22] Masaki Miyabayashi, Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, “Implementation of Video Transfer with TCP-Friendly Rate Control Protocol,” *Proceedings of International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2000)*, (Pusan), pp. 117-120, July 2000.
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 - [24] Masayuki Murata, “Reliability Issues in IP over WDM Networks,” *Proceedings of 2000 IEEE Communication Quality and Reliability Workshop*, Greece, May 2000.

- [25] Go Hasegawa, Masayuki Murata and Hideo Miyahara, "Comparisons of Packet Scheduling Algorithms for Fair Service among Connections on the Internet," *Proceedings of IEEE INFOCOM 2000*, March 2000.
- [26] Kazuhiro Gokyu, Ken-ichi Baba and Masayuki Murata, "On Path Accommodation Methods for Optical Compression TDM Ring," *Proceedings of Workshop on Optical Networks 2000*, January 2000.
- [27] Hiroyuki Ohsaki, Masayuki Murata, Toshimitsu Ushio and Hideo Miyahara, "A Control Theoretical Approach to a Window-Based Flow Control Mechanism with Explicit Congestion Notification," *Proceedings of IEEE CDC '99*, December 1999.
- [28] Shin'ichi Arakawa, Masayuki Murata and Hideo Miyahara, "Delay Analyses of Wavelength Reservation Methods for High-Speed Burst Transfer in Photonic Networks," *Proceedings of APCC '99*, November 1999.
- [29] Akira Watanabe, Masayuki Murata and Hideo Miyahara, "Comparisons of QoS from User's Perspective; Which Provides Better Utility to Users, Best-effort or Reservation-based Services?," *Proceedings of ITC-CSCC '99*, November 1999.
- [30] Shingo Ata, Masayuki Murata and Hideo Miyahara, "Analysis and Application of Network Traffic Characteristics to Design of High-Speed Routers," *Proceedings of SPIE '99*, September 1999.
- [31] Go Hasegawa, Masayuki Murata and Hideo Miyahara, "Performance Evaluation of HTTP/TCP on Asymmetric Networks," *Proceedings of SPIE '99*, pp. 423-432, September 1999.
- [32] Hiroyuki Ohsaki, Masayuki Murata, Toshimitsu Ushio and Hideo Miyahara, "Stability Analysis of Window-Based Flow Control Mechanism in TCP/IP Networks," *Proceedings of IEEE 1999 CCA/CACSD Joint – Control Applications/Computer Aided Control Systems Design*, August 1999.
- [33] Akira Watanabe, Masayuki Murata and Hideo Miyahara, "Which Provides Better Utility for Users, Best-Effort Service or Reservation-Based Service?," *Proceedings of ITC-CSCC '99*, July 1999.
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- [37] Yasuyuki Fujita, Masayuki Murata and Hideo Miyahara, "Analysis of Web Server Performance towards Modeling and Performance Evaluation of Web Systems," *Proceedings of 16th International Teletraffic Congress*, June 1999.
- [38] Kentarou Fukuda, Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "QoS Guarantees Based on End-to-End Resource Reservation for Real-Time Video Communications," *Proceedings of 16th In-*

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- [40] Takahiro Matsuo, Go Hasegawa, Masayuki Murata and Hideo Miyahara, "Comparisons of Packet Scheduling Algorithms for Fair Service among Connections," *Proceedings of IEEE Internet Workshop '99*, pp. 193-200, February 1999.
- [41] Yoshiaki Sumida, Hiroyuki Ohsaki, Masayuki Murata and Hideo Miyahara, "Effects of Upper-Layer Protocols on Self-Similarity of Network Traffic," *Proceedings of IEEE Internet Workshop '99*, pp. 81 - 88, February 1999.
- [42] Naoki Wakamiya, Kentarou Fukuda, Masayuki Murata and Hideo Miyahara, "On Multicast Transfer of Hierarchically Coded Video with QoS Guarantees," *Proceedings of IEEE Internet Workshop '99*, pp. 174-180, February 1999.
- [43] Yasuyuki Fujita, Masayuki Murata and Hideo Miyahara, "Performance Modeling and Evaluation of Web Systems," *Proceedings of The First AEARU Workshop on Web Technology*, pp. 91-98, November 24-25 1998.
- [44] Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "Utility-based Bandwidth Allocation Scheme for Real-Time Multimedia Stream Transfer," *Proceedings of 2nd IFIP/IEEE International Conference on Management of Multimedia Networks and Services '98 (MMNS '98)*, Versailles, pp. 180-194, November 1998.
- [45] Kentarou Fukuda, Naoki Wakamiya, Masayuki Murata and Hideo Miyahara, "Real-Time Video Distribution with Hybrid Hierarchical Video Coding in Heterogeneous Network and Client Environments," *Proceedings of 2nd IFIP/IEEE International Conference on Management of Multimedia Networks and Services '98 (MMNS '98)*, Versailles, pp. 5-19, November 1998.
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