

## Centralized Path Bandwidth Control through Digital Cross-connect Systems [9]

M. Logothetis

IEICE Technical Report, IN91-122, 1991.

1. H. Uose, S. Shioda, H. Horigome and H. Yamamoto, NTT, Tokyo, Japan, "Design and control aspects of ATM transit networks", Proc. NOMS'92, 1992.

## Centralized Virtual Path Bandwidth Allocation Scheme for ATM Networks [10]

M. Logothetis and S. Shioda

IEICE Trans. Commun. Vol. E75-B, No. 10, October 1992.

1. "Heuristic Algorithm of ATM Network Virtual Route", JOURNAL OF JILIN UNIVERSITY (INFORMATION SCIENCE EDITION), 2005, Vol.23, No.2, pp. 143-146:  
<http://www.wanfangdata.com.cn/qikan/periodical/articles/ccydxymb/ccyd2005/0502/050207.htm> (last access: June 15, 2008).
2. "On the Optimization of Path Bandwidth Allocation for Large-Scale Communication Networks", CHINESE JOURNAL OF COMPUTERS Vol.26 No.6, pp. 682-687, June 2003: <http://engine.cqvip.com/content/citation.dll?id=7931130> and <http://scholar.ilib.cn/A-jsjx200306013.html> (last access: June 15, 2008).
3. A. Abouaissa, A. Benslimane "A Multicast Synchronization Protocol for Real Time Distributed Systems IEEE International Conference on Networks (ICON'99), Brisbane, Australia, September 28-October 1, 1999.
4. Andrés Rico-Páez, Carmen B. Rodríguez-Estrello, Felipe A. Cruz-Pérez, and Genaro Hernández-Valdez, "Queuing Analysis of Mobile Cellular Networks Considering Wireless Channel Unreliability and Resource Insufficiency", pp. 938-949 in the book "Managing Traffic Performance in Converged Networks", LECTURE NOTES IN COMPUTER SCIENCE, Springer, Berlin/Heidelberg, 2007.
5. Chen Y.C., Hu S.C., Chan C.T. (Dept. of Comput. Sci. & Inf. Eng., Nat. Chiao Tung Univ., Hsinchu, China), "Least required bandwidth in VP-based ATM networks", Proceedings of 1997 International Conference on Information, Communications and Signal Processing (ICICS), Volume: 3, On page(s): 1504-1507, Singapore, 9-12 Sep. 1997.
6. Cotter R, Medhi D (University of Missouri-Kansas City, USA), Tipper D (University of Pittsburgh, USA), "Traffic Backlog and Impact on Network Dimensioning for Survivability for Wide-Area VP-based ATM Networks, Proceedings of 15th International Teletraffic Congress (ITC), Washington, D.C., June, 1997.
7. D. Medhi (University of Missouri-Kansas City, USA) and C.-T. LU, "Dimensioning and Computational Results for Wide Area Broadband Networks", IEICE TRANSACTIONS on Communications, Vol. E80-B, No.2, pp. 273-281, 1997.
8. D. Medhi (University of Missouri-Kansas City, USA) and D. Tipper (University of Pittsburgh, USA), "Some approaches to solving a multihour broadband network capacity design problem with single-path routing", Telecommunication Systems 13 (2000) 269-291.

9. D. Medhi (University of Missouri-Kansas City, USA), "Models for Network Design, Servicing, and Monitoring of ATM Networks Based on the Virtual Path Concept", *Computer Networks and ISDN Systems*, Vol. 29, 1997, pp. 373-386, 1997.
10. D. Medhi (University of Missouri-Kansas City, USA), "Multi-Hour, Multi-Traffic Class Network Design for VP-based Wide-Area Dynamically Reconfigurable ATM Networks", *Proceedings of IEEE INFOCOM'95*, Boston, MA, April 1995.
11. D. Medhi (University of Missouri-Kansas City, USA), "Multi-hour, multi-traffic class network design for virtual path-based dynamically reconfigurable wide-area ATM networks", *IEEE/ACM Transactions on Networking*, Volume 3, Issue 6, Dec. 1995.
12. G.P. Parr και S. Wright, από το University of Ulster, Belfast, "The Knockout ATM Switch Fabric: Model and Functionality", (EU STRIDE Programme) *Proc. First UK Workshop on Performance Modelling and Evaluation of ATM Networks*, Bradford/UK, June 1992.
13. Han Bing, Qu Runtao, Xi Yugeng (Shanghai Jiaotong University, China), "Decentralized Control of Dynamic Resource Allocation Problem of Virtual Path in ATM Networks", *CONTROL AND DECISION*, 2000 Vol.15 No.4, pp. 415-418: [http://www.wanfangdata.com.cn/qikan/periodical.articles/kzyjc/kzyj2000/0004/000407.htm](http://www.wanfangdata.com.cn/qikan/periodical/articles/kzyjc/kzyj2000/0004/000407.htm) (last access: June 15, 2008).
14. Hu Chenjiang, "Topology Design for Reconfigurable ATM Networks, Ms.C. Thesis (Supervisor: J. Harms), University of Alberta, Canada, 1997.
15. Huang Shengye (College of Computer and Communications, Hunan University, Changsha, China, 411000), Ye Wu, Feng Suili and Song Hui (Department of Electronics and telecommunications, South China University of Technology, Guangzhou, China, 510640), "Coordination-based optimization of path bandwidth allocation for large-scale telecommunication networks", *Computer Communications*, Volume 27, Issue 1, pp. 70-80, 1 January 2004.
16. J Frings, T Bauschert (Technische Universität München, D-80290 München), "Optimal Resource Management in ATM Transport Networks Supporting Multimedia Traffic", *Proceedings of the Second International Workshop on Advanced Teleservices and High-Speed Communication Architectures*, 1994 – book "Multimedia: Advanced Teleservices and High-Speed Communication Architectures", edited by Ralf Steinmetz, *Lecture Notes in Computer Science*, Vol. 868, Springer, Berlin/Heidelberg, 1994.
17. K Steenhaut, K Degieter, W Brissinck, E Dirkx " (VUB-TW-INFO, Pleinlaan 2, B-1050, Brussels, Belgium), "Scheduling and admission control policies: A case study for ATM", *Computer Networks and ISDN Systems*, Volume 29, Issue 5, Pages 539-554, April 1997.
18. K. Bur και C. Ersoy, Bogazici University of Istanbul, Turkey, "A Virtual path routing algorithm for ATM networks based on the equivalent bandwidth concept", *Computer Communications* 23 (2000) 379-394.

19. Kaan Bur, "[A Virtual path routing algorithm for ATM networks based on the equivalent bandwidth concept](#)", Master Thesis in Computer Engineering at Bogazici University of Istanbul, Turkey, 1997.
20. M Plante, B Sansò, (École Polytechnique de Montréal, C.P. 6079, Succ. Centre-ville, Montréal, Québec, Canada, H3C 3A7) "[A Typology for Multi-Technology, Multi-Service Broadband Network Synthesis](#)", *Telecommunication Systems*, Volume 19, No 1, pp. 39-73, January, 2002.
21. Martinez, J. Vidal, J.R. Guijarro, L. Abellan, M. (Dept. de Commun., Univ. Politecnica de Valencia) "Virtual path long-term bandwidth allocation algorithm for ATM networks using simulated annealing", *Electronics Letters*, Volume: 34, Issue: 6, pp. 529-531, 1998.
22. Muller, C. Veitch, P. Magill, E.H. Smith, D.G. Dept. of Commun., Strathclyde Univ., Glasgow, Scotland, "Emerging AI techniques for network management", *Proc. IEEE GLOBECOM'95*, Singapore, 13-17 Nov. 1995.
23. Mun Choon Chan, Aurel A. Lazar, Rolf Stadler, "An Architecture for Externally Controllable Virtual Networks and its Evaluation on NYNET", CTR Technical Report 469-97-03, Columbia University in the City of New York, USA, 1997.
24. Mun Choon Chan, University of Columbia (USA), in the PhD dissertation "Architecting the Control Infrastructure of Multimedia Networks", supervised by Prof. Aurel A. Lazar (1997).
25. R Siebenhaar, "Optimized ATM virtual path bandwidth management under fairness constraints" *IEEE GLOBECOM'94*, San Francisco, USA, November 28 to December 2, 1994.
26. Song Hui, Ye Wu, Feng Suili, (Dept. of Electronic Communications, South China Univ. of Technology, Guangzhou 510641, P.R. China) Huang Shengye (Coll. of Computer and Telecommunications, Hunan Univ., Changsha 410082, P.R. China), "New bandwidth algorithm and its performance analysis in integrated service network" *Journal of Systems Engineering and Electronics*. Vol. 16, no. 3, pp. 660-664. Sept. 2005.
27. Song Hui, Ye Wu, Feng Suili, Huang Shengye "An approximate bandwidth evaluation algorithm with application to virtual path bandwidth allocation", *Proceedings of the IEEE 6th Circuits and Systems Symposium on Emerging Technologies: Frontiers of Mobile and Wireless Communication*, Volume: 1, pp. 113- 116, Vol.1, 31 May - 2 June, 2004.
28. United States Patent 6980553 Inventors: Miki, Kazuho (Yokohama, JP), Takatori, Masahiro (Yokohama, JP) Takase, Akihiko (Tokyo, JP), Murakami, Masaru (Yokohama, JP), Wakayama, Koji (Yokohama, JP), Yoshimoto, Tetsuro (Yokohama, JP), Kunimoto, Masao (Chigasaki, JP). Assignee: Hitachi, Ltd. (Tokyo, JP). Title: "Router apparatus using ATM switch", 23 July, 2002 (<http://www.patentstorm.us/patents/6980553/fulltext.html>).
29. United States Patent 7046630. Inventors: Abe; Hajime (Yokohama, JP), Miki; Kazuho (New York, NY), Endo; Noboru (Kodaira, JP), Takase; Akihiko (Tokyo, JP), Sakurai;

Yoshito (Kawasaki, JP), Assignee: Hitachi, Ltd. (Tokyo, JP). Title: "Packet switching network, packet switching equipment and network management equipment", 16 May, 2006.

30. V. J. Friesen, J. J. Harms, and J. W. Wong, "Resource Management with Virtual Paths in ATM Networks", *IEEE Network*, September/October 1996.
31. Veitch, P.A. Smith, D.G. Hawker, I. (Strathclyde Univ., Glasgow, Scotland) "A distributed protocol for fast and robust virtual path restoration", *Proc. Performance Engineering in Telecommunications Networks. IEE Twelfth UK Teletraffic Symposium (Digest No. 1995/054)*.
32. Wanru Tao, State University of New York at Buffalo, Computer Science & Engineering Department, Course: Modern Network Concepts, Topic: Advanced Networking Concepts, Class Schedule for Spring 2000, [www.cse.buffalo.edu/~qiao/cse489/cs620/atm\\_wanru.ppt](http://www.cse.buffalo.edu/~qiao/cse489/cs620/atm_wanru.ppt) (last access, June 15, 2008).
33. Zhigang Qin, Tetiana Lo, Felix F. Wu, "The Optimal Virtual Path Design of ATM Networks" p. 159, *Proc. of the 22<sup>nd</sup> Annual IEEE International Conference on Local Computer Networks (LCN'97)*, Minneapolis, Minnesota U.S.A., November 2-5, 1997.

### **Optimal Virtual Path Bandwidth Management Assuring Network Reliability [12]**

**M. Logothetis, S. Shioda and G. Kokkinakis**

**Proc. ICC'93, Geneva, 1993.**

1. Chindakorn Tuchinda (Ericsson Thailand Co., Ltd, Bangkok, Thailand), Hou Tao Zhu, Weiyi Lu (Asian Institute of Technology, Klong Luang, Pathumthani, Thailand), "Design of an optimal BER monitoring scheme for preventive maintenance of an ATM network", *International Journal of Communication Systems*, Volume 11, Issue 6, Pages 369-378, **November/December 1998**.
2. Dennis J. Pai, Henry L. Owen, "An Algorithm for Bandwidth Management with Survivability Constraints in ATM Networks", *Proc. IEEE ICC'97*, pp. 261-266, Montréal, Québec, Canada, 8-12 June 1997.
3. Jong Hyup LEE, "Design and configuration of reconfigurable ATM networks with unreliable links", *ETRI Journal*, Volume 21, Number 4, December 1999.
4. Kazutaka Murakami<sup>1</sup> and Hyong S. Kim<sup>2</sup>, Bell Labs<sup>1</sup>, Holmdel, NJ, U.S.A., and Carnegie-Mellon Univ.<sup>2</sup>, Pittsburgh, PA, U.S.A., "Virtual path routing for survivable ATM networks", *IEEE/ACM Transactions on Networking*, Volume 4, Issue 1, pp. 22-39, February 1996.
5. Michael D. J. Cox (BT Labs, Ipswich, Suffolk, UK), Edward P. K. Tsang Department of Computer Science, University of Essex, UK) "Application of GENET/GLS in future communications management" available at: [ftp://ftp.essex.ac.uk/pub/csp/PACT98/pact98-6.doc](http://ftp.essex.ac.uk/pub/csp/PACT98/pact98-6.doc) (last accessed, June 2008).
6. Pai D. Owen H. (Sch. of Electr. & Comput. Eng., Georgia Inst. of Technol., Atlanta, GA, USA), "ATM bandwidth management with survivability constraints", *Proc. IEEE*

- International Performance, Computing, and Communications Conference, (IPCCC 1997), Page(s):171 – 176, Phoenix, Tempe, AZ, USA 5-7 Feb 1997.*
7. Pai D.J., Owen H.L., (Sch. of ECE, Georgia Inst. of Technol., Atlanta, GA, USA), “An algorithm for bandwidth management with survivability constraints in ATM networks”, *Proc. IEEE ICC'97, Montreal, Canada, 8-12 Jun 1997.*
  8. R. G. Davison, J. Hardwicke and M. Cox, “Applying the Agent Paradigm to Network Management”, *BT Technology Journal, Volume 16, Number 3, pp. 1358-3948, July, 1998.*
  9. Robert E Cotter, “Network and Protocol Design for Survivable Wide-Area ATM-based Virtual Networks”, *Ph.D. Thesis, Computer Science & Electrical Engineering (CSEE), Department School of Computing and Engineering, University of Missouri - Kansas City, December 1999.*
  10. Shung-Jin Chung<sup>1</sup>, Sung-Pil Hong<sup>2</sup>, Sang-Baeg Kim<sup>3</sup> and Hoo-Sang Chung<sup>1</sup> (Seoul National University<sup>1</sup>, Chung-Ang University<sup>2</sup> (Korea) and Korea Telecom<sup>3</sup>), “An Optimal Virtual Topology Configuration for Multicast in ATM and MPLS Networks”, *IEICE Trans. Commun., pp. 2656-2669, Vol. E84-B, No 9, Sep. 2001. This article is also included in the book: “High-Performance Backbone Network Technology”, edited by Naoaki Yamanaka ISBN: 0-8247-5321-6 DOI: 1 0. 1 08 1/ (1 20025666) Published 2004, by Marcel Dekker, Inc.*
  11. Tai H. Noh (Lucent Technologies, Bell Laboratories, Holmdel, NJ 07733, USA), Dhadesugoor R. Vaman and Xuedao Gu (Advanced Telecommunications Institute, Stevens Institute of Technology, Hoboken, NJ 07030, USA), “Reconfiguration for service and self-healing in ATM networks based on virtual paths”, *Computer Networks and ISDN System, Volume 29, Issue 16, Pages 1857-1867, 15 December 1997.*
  12. Thomas Bauschert, Jochen Frings and Rainer Siebenhaar, Technical University of Munchen, “Network Engineering for ATM with Virtual Paths”, *EFOC&N '94: Papers on ATM and Networks, pp. 22-26, Heidelberg, 21-24 June 1994.*
  13. V. J. Friesen, J. J. Harms, and J. W. Wong, “[Resource Management with Virtual Paths in ATM Networks](#)”, *IEEE Network, September/October 1996.*

### **Network Planning Based on Virtual Path Bandwidth Management [15]**

**M. Logothetis and G. Kokkinakis**

**International Journal of Communications Systems, No. 8, Aug. 1995.**

1. Sheng Ye Huang, Wu Ye and Sui-Li Feng (South China University of Technology, Guangzhou, China), “Optimization of Path Bandwidth Allocation for Large-Scale Telecommunication Networks”, *IEICE Trans. Commun., Vol. E85-B, No 12, Dec. 2002 (explicit reference).*
2. Huang Shengye (College of Computer and Communications, Hunan University, Changsha, China, 411000), Ye Wu, Feng Suili and Song Hui (Department of Electronics and telecommunications, South China University of Technology, Guangzhou, China, 510640), “Coordination-based optimization of path bandwidth

*allocation for large-scale telecommunication networks*”, *Computer Communications, Volume 27, Issue 1*, pp. 70-80, 1 January 2004.

3. Soumyo D. MOITRA<sup>1</sup>, Eiji OKI<sup>2</sup> and Naoaki YAMANAKA<sup>2</sup>, Indian Institute of Management<sup>1</sup>, Calcutta, India, and NTT<sup>2</sup>, Tokyo, Japan, “Integrated Physical and Logical Layer Design of Multimedia ATM Networks”, *IEICE Trans. Commun., Vol. E82-B, No. 9, Sep. 1999*.
4. “On the Optimization of Path Bandwidth Allocation for Large-Scale Communication Networks”, *CHINESE JOURNAL OF COMPUTERS Vol.26 No.6*, pp. 682-687, June 2003: <http://engine.cqvip.com/content/citation.dll?id=7931130> and <http://scholar.ilib.cn/A-jsjcx200306013.html> (last accessed June 13, 2008).
5. Chindakorn Tuchinda (Ericsson Thailand Co., Ltd, Bangkok, Thailand), Hou Tao Zhu, Weiyi Lu (Asian Institute of Technology, Klong Luang, Pathumthani, Thailand), “Design of an optimal BER monitoring scheme for preventive maintenance of an ATM network”, *Volume 11, Issue 6, Pages 369-378, November/December 1998*.
6. Cheng, T.-H. Chen, J. , (Sch. of Electr. & Electron. Eng., Nanyang Technol. Univ.), “Performance of fast bandwidth reservation with multipath routing”, *IEE Proceedings Communications, Volume: 145, Issue: 2, pp. 80-86, Apr 1998*.
7. A. Borella, G. Cancellieri, F. Chiaraluce, “Wavelength Division Multiple Access Optical Networks”, Artech House Publishers, 1998.

#### **Virtual Path Bandwidth Control Versus Dynamic Routing Control [19]**

**I. Papanikos, M. Logothetis, G. Kokkinakis**

**Proc. Third IFIP Workshop on Performance Modelling and Evaluation of ATM Networks, Ilkley, West Yorkshire UK, July 2-6, 1995.**

1. Ake Arvidsson (Department of Telecommunications and Mathematics, The University of Karlskrona/Ronneby, S-371 79 Karlskrona, Sweden), “Real Time Traffic Management by Dynamic Bandwidth Allocation”, *Proc. of the 11th ITC Specialist Seminar (on Teletraffic Issues related to Multimedia and Nomadic Communications), Yokohama, Japan, 27 - 29 October 1998*. (available online at: [http://www.bth.se/fou/forskinfo.nsf/7172434ef4f6e8bcc1256f5f00488045/ed4fe644aae8dc74c12568a3002caab9/\\$FILE/Real%20Time%20Traffic%20Management%20by%20Dynamic%20Bandwidth%20Allocation.pdf](http://www.bth.se/fou/forskinfo.nsf/7172434ef4f6e8bcc1256f5f00488045/ed4fe644aae8dc74c12568a3002caab9/$FILE/Real%20Time%20Traffic%20Management%20by%20Dynamic%20Bandwidth%20Allocation.pdf), last access: June 15, 2008).

#### **Medium-Term Centralized Virtual Path Bandwidth Control Based on Traffic Measurements [21]**

**M. Logothetis and S. Shioda**

**IEEE Transactions on Communications, Vol. 43, Oct. 1995.**

1. “A fast algorithm based on quasi-independent approximation for calculating the call blocking probabilities in a huge shared resource system”, *JOURNAL OF CHINA INSTITUTE OF COMMUNICATIONS*, 2002, *Vol.23, No.11*, pp. 122-128, (in Chinese:

- <http://www.wanfangdata.com.cn/qikan/periodical.articles/txxb/txxb2002/0211/021119.htm>).
2. "A Fast Algorithm for Calculating the Call Blocking Probabilities in a Huge Integrated Services Network", *SYSTEMS ENGINEERING AND ELECTRONICS*, 2002 Vol.24 No.4 P.5-8 (in Chinese: <http://www.wanfangdata.com.cn/qikan/periodical.articles/xtgcydzjs/xtgc2002/0204/020402.htm>).
  3. "An Efficient Optimal Algorithm for Virtual Path Bandwidth Allocation", (CHINESE) *JOURNAL OF COMPUTERS* Vol.27 No.11, pp. 1552-1558, Nov. 2004: <http://engine.cqvip.com/content/citation.dll?id=11096796> (last accessed June 13, 2008).
  4. "An Improved Algorithm for the OPBM Algorithm" *COMPUTER ENGINEERING AND APPLICATIONS* 2004, *COMPUTER ENGINEERING AND APPLICATIONS* 2004, Vol.40, No.21, pp. 25-27 (in Chinese: <http://www.wanfangdata.com.cn/qikan/periodical.articles/jsjgcyyy/jsjg2004/0421/042108.htm>).
  5. "On the Optimization of Path Bandwidth Allocation for Large-Scale Communication Networks", *CHINESE JOURNAL OF COMPUTERS* Vol.26 No.6, pp. 682-687, June 2003: <http://engine.cqvip.com/content/citation.dll?id=7931130> and <http://scholar.ilib.cn/A-jsjcx200306013.html> (last accessed June 13, 2008).
  6. A. L. G. Hayzelden, J. Bigham, "Heterogeneous Multi-Agent Architecture for ATM Virtual Path Network Resource Configuration", *Proceedings of the Second International Workshop on Intelligent Agents for Telecommunication (IATA'98)*, 3-8 July, 2008.
  7. A. Rueda (TRLabs, Winnipeg, Canada), "An Approach to Quality of Service Control in Telecommunication Networks", *Canadian Conference on Electrical and Computer Engineering*, Vol 2, pp. 963-965, Calgary, Alta, Canada, 25-29 May, 1996, <http://citeseer.ist.psu.edu/rueda96approach.html> (last access, Feb. 8 2008).
  8. Alex Barriuso POY (Escola Tecnica Superior d'Enginyeria Universitat Rovira i Virgili Tarragona, Spain), "INTELLIGENT AGENTS BASED TELECOMMUNICATION APPLICATIONS", Project at the University of Warwick, Coventry, UK, available at: <http://www.eng.warwick.ac.uk/eng/staff/elh/es3770/alex.pdf> (last access: June 15, 2008).
  9. B. Groszinsky and D. Medhi, University of Missouri-Kansas City, U.S.A., "Sensitivity of Blocking-based Adaptive Capacity Control in a Dynamic Traffic Network Environment", in *Performance and Control of Network Systems II*, W.-S. Lai and R. B. Coopers, Eds., *Proceedings of SPIE (1998 Symp. on Voice, Video and Data Communications, Boston, Mass.)*, Vol. 3530, pp. 241-251, Oct. 1998.
  10. Brenda Groszinsky, Deep Medhi and David Tipper, "An Investigation Of Capacity Control Schemes In A Dynamic Traffic Environment" Technical Report, *Computer Science Telecommunications*, University of Missouri--Kansas City, July 1998.

11. Brenda Groskinsky<sup>1</sup>, Deep Medhi<sup>1</sup> and Devid Tipper<sup>2</sup>, University of Missouri-Kansas City<sup>1</sup>, U.S.A., and the University of Pittsburgh<sup>2</sup>, U.S.A., "An Investigation Of Adaptive Capacity Control Schemes In A Dynamic Traffic Environment", *IEICE Trans. Communications*, pp. 263-274, Vol. E84-B, No. 2, Feb. 2001.
12. *COMPUTER ENGINEERING AND APPLICATIONS* 2003, Vol.39, Issue: 12, pp. 28-30,99 (in Chinese: <http://engine.cqvip.com/content/citation.dll?id=7775605>, last accessed June 13, 2008).
13. Hae-Goo Song, Heesang Lee (Dept. of Industrial Engineering, Hankuk University of Foreign Study, Yongin, Kyungki, 449-792, Korea) and Sung-Jin Chung (Dept. of Ind. Eng., Seoul Nat. Univ. Korea), "Integrated VP/VC Rerouting Model for Multi-Layer Restoration in ATM Networks", *Proc. First International Workshop on the Design of Reliable Communication Network (DRCN)*, Brugge, Belgium, 1998.
14. Hae-Goo Song, Heesang Lee, Buhyun Moon, Sung-Jin Chung "Dynamic rerouting for ATM virtual path restoration", *Proc. IEEE GLOBECOM'97*, Phoenix, AZ, USA, 3-7 Nov. 1997.
15. Heesang Lee (Hankuk University of Foreign Studies, Yongin, Mohyun, Wangsan 89, Kyungki 449-791, Korea), Hae-Goo Song, Ji-Bok Chung and Sung-Jin Chung (Seoul National University, Kwanak, Shinlimdong 56-1, Seoul 151-742, Korea), "Preplanned rerouting optimization and dynamic pathrerouting for ATM VP restoration", *Telecommunication Systems* 14, pp. 243-267, Number 1-4, August 2000.
16. <http://rilibiao.cn/rftp/31035.html> (in Chinese) (last access Feb. 8, 2008).
17. Huang Shengye (College of Computer and Communications, Hunan University, Changsha, China, 411000), Ye Wu, Feng Suili and Song Hui (Department of Electronics and telecommunications, South China University of Technology, Guangzhou, China, 510640), "Coordination-based optimization of path bandwidth allocation for large-scale telecommunication networks", *Computer Communications*, Volume 27, Issue 1, pp. 70-80, 1 January 2004.
18. JIANG Hong-yan, LIN Ya-ping, HUANG Sheng-ye (College of Computers and Communications, Hunan University, Changsha 410082, China), Analysis of loss probabilities on the call level and packet level in a multi-rate system, *JOURNAL ON COMMUNICATIONS* , 2007, (28.9) pp. 15-21, (in Chinese, <http://engine.cqvip.com/content/citation.dll?id=25632382>) (last access, June 15, 2008).
19. LIU Xiaofan, HUANG Shengye, DAI Zhen, "An Optimal Algorithm for Virtual Path Bandwidth Allocation", *SCIENCE TECHNOLOGY AND ENGINEERING*, 2006 Vol.6 No.12, pp. 1640-1643, <http://www.wanfangdata.com.cn/qikan/periodical.articles/kxjsygc/kxjs2006/0612/061214.htm>.
20. M. Plante and B. Sanso, Ecole Polytechnique de Montreal, Canada, "A Typology for Multi-technology, Multi-service Network Systhesis Methods", *Telecommunication Systems Journal*, <http://www.crt.umontreal.ca/~michaela/paper.ps.gz>

*(POSTSCRIPT)* - ... **References.** [55] **M. Logothetis** and **S. Shioda.** ...  
<http://www.crt.umontreal.ca/~michaela/paper.ps.gz>

21. **Maosong Luo, Wu Ye, Shenye Huang, SuiliFeng, ZhaonanLi** (*Electronic and Information institute of South China University of Technology*), “An Efficient Optimal Algorithm for Virtual Path Bandwidth Allocation”, *Proceedings of the 17th IEEE International Conference on Advanced Information Networking and Applications (AINA'03)*, March 27-29, 2003, Xi'an, China.
22. **Mun Choon Chan, Aurel A. Lazar, Rolf Stadler**, “An Architecture for Externally Controllable Virtual Networks and its Evaluation on NYNET”, CTR Technical Report 469-97-03.
23. **Mun Choon Chan**, *University of Columbia (USA)*, in the PhD dissertation “Architecting the Control Infrastructure of Multimedia Networks”, supervised by Prof. Aurel A. Lazar (1997).
24. **N. Swaminathan and S.V. Raghavan**, *Indian Institute of Technology, Madras India*, “DIDA: a Distributed, Dynamic and Adaptive VP bandwidth management scheme for ATM networks” *Computer Communications* 23 (4) (2000) pp. 395-402.
25. **N. Swaminathan<sup>1</sup>, J. Srinivasan<sup>2</sup>, S.V. Raghavan<sup>1</sup>** (*Indian Institute of Technology Madras<sup>1</sup> and Kanpur<sup>2</sup>, India*), “Bandwidth-demand prediction in virtual path in ATM networks using genetic algorithms”, *Computer Communications* 22 (12) (1999) 1127-1135.
26. **Noh, T.H.** (*Lucent Technol., Bell Labs., Seoul, Korea*), “Layered bandwidth management in the integrated ATM, SDH/SONET, and optical transport networks”, *Proceedings of the Third IEEE Symposium on Computers and Communications, (ISCC'98)*, pp. 515-519, Athens, Greece, 30 June - 2 July 1998.
27. **Song Hui, Wu Ye, Feng Suili**, “The influence of calculating CBP on the performance of step optimal bandwidth allocation”, *CONTROL & AUTOMATION*, 2005 Vol.21 No.30 P.45-47, (in Chinese)  
<http://www.wanfangdata.com.cn/qikan/periodical/articles/wjsjxx/wjsj2005/0530/053018.htm>.
28. **Song Hui, Ye Wu, Feng Suili**, (*Dept.of Electronic Communications,South China Univ.of Technology,Guangzhou 510641,P.R.China*)**Huang Shengye** (*Coll.of Computer and Telecommunications,Hunan Univ.,Changsha 410082,P.R.China*), “New bandwidth algorithm and its performance analysis in integrated service network” *Journal of Systems Engineering and Electronics*. Vol. 16, no. 3, pp. 660-664. Sept. 2005.
29. **Song Hui, Ye Wu, Feng Suili, Huang Shengye** “An approximate bandwidth evaluation algorithm with application to virtual path bandwidth allocation”, *Proceedings of the IEEE 6th Circuits and Systems Symposium on Emerging Technologies: Frontiers of Mobile and Wireless Communication, Volume: 1*, pp. 113- 116, Vol.1, 31 May - 2 June, 2004.
30. **T.-H. Cheng<sup>1</sup>, Y.-K. Sze<sup>2</sup>, and C.-W. Tan<sup>1</sup>** (*Nanyang Technological University<sup>1</sup>, Singapore and the Software Development Centre<sup>2</sup> of Motorola, Singapore*), “A

*heuristic algorithm for allocating virtual path in an ATM network” Computer Communications 22 (9) (1999) 803-810.*

31. *United States Patent 5684960. Inventors: Geyer, Joel Erwin (Cary, NC, USA), Lee, Joseph K. (Raleigh, NC, USA), Assignee: International Business Machines (IBM) Corporation, Armonk, NY, USA, Title: “Real-time ring bandwidth utilization calculator by sampling over a selected interval latch's states set by predetermined bit pattern on the transmission medium”, 1997 <http://www.freepatentsonline.com/5684960.html>.*
32. *United States Patent 6134238. Inventor: Noh; Tai (Manalapan, NJ, USA). Owner: Lucent Technologies (Murray Hill, NJ, USA). Title: “Layered bandwidth management in ATM/SDH (SONET) networks” 2000, <http://www.wikipatents.com/6134238.html#references>.*
33. *United States Patent 6690678 and EU Patent 1001574. Inventors: Claude Basso, Aline Fichou, Claude Galand, Laurent Nicolas, Assignee: International Business Machines (IBM) Corporation, Title: “Method and system in a packet switching network for dynamically adjusting the bandwidth of a continuous bit rate virtual path connection according to the network load” (see at: [http://www.google.gr/patents/pdf/Method\\_and\\_system\\_in\\_a\\_packet\\_switching\\_pdf?id=zB0SAAAAEBAJ&output=pdf&sig=rxxqrOkPwtFagbp0KVdnx-zI4IQ](http://www.google.gr/patents/pdf/Method_and_system_in_a_packet_switching_pdf?id=zB0SAAAAEBAJ&output=pdf&sig=rxxqrOkPwtFagbp0KVdnx-zI4IQ)).*
34. *Weiping Zhao (National Ctr. for Science Information Systems, Canada), Shoichiro Asano (National Ctr. for Science Information Systems, Japan), “Assignment of end-end transmission QoS in WAN environments”, Proc. SPIE, Vol. 3529, 26 (1998); DOI:10.1117/12.333725.*
35. *Xing Xu, Ye Wu, Feng Suili (South China University of Technology, Guangzhou, China), “Research on the calculation of Call Blocking Probability in large-scale multimedia network”, The Second IEE International Conference on Mobile Technology, Applications and Systems”, Guangzhou, China, 15-17, Nov. 2005 (<http://ieeexplore.ieee.org/iel5/10837/34155/01628077.pdf?tp=&isnumber=&arnumber=1628077>).*
36. *Xu Xing, Ye Wu, Feng Suili (South China University of Technology, Guangzhou, China) and Huang Shengye (College of Computer and Telecommunications, Hunan University, Changsha, China), “A fast algorithm for calculating CBP in large-scale sharing resource networks”, IEEE International Symposium on Microwave, Antenna, Propagation and EMC Technologies for Wireless Communications, 2005 (MAPE 2005), Volume 2, 8-12 Aug. 2005 Page(s):1299 - 1302 Vol.2 Digital Object Identifier 10.1109/MAPE.2005.1618162.*
37. *XU Xing, YE Wu, FENG Suili, “A Virtual Path Bandwidth Allocation Algorithm through Look-up-table in Large-scale Telecom Networks”, SCIENCE TECHNOLOGY AND ENGINEERING 2005, Vol.5, No.24, pp. 1893-1897, (in Chinese, last access: June 15, 2008: [http://www.wanfangdata.com.cn/qikan/periodical.articles/kxjsygc/kxjs2005/0524/052407.htm](http://www.wanfangdata.com.cn/qikan/periodical/articles/kxjsygc/kxjs2005/0524/052407.htm)).*

38. Xu Xing, Ye Wu, Feng Sui-li, Xie Ming, "Fast Algorithm for Calculating Call-Blocking Probability Based on FFT in Large-Scale Networks", *JOURNAL OF SOUTH CHINA UNIVERSITY OF TECHNOLOGY (NATURAL SCIENCE EDITION)* 2006, Vol.34, No.1, pp. 10-13,34 (in Chinese, last access: June 15, 2008:<http://www.wanfangdata.com.cn/qikan/periodical.articles/hnlgdxxb/hnlg2006/0601/060103.htm>).

### **Optimal Resource Management in ATM Networks [31]**

**M. Logothetis**

**Tutorial paper in the book "Performance Evaluation and Application of ATM Networks", Kluwer Academic Publishers, U.S.A. 2000.**

1. Maosong Luo, Wu Ye, Shenye Huang, SuiliFeng, ZhaonanLi (Electronic and Information institute of South China University of Technology), "An Efficient Optimal Algorithm for Virtual Path Bandwidth Allocation", *Proceedings of the 17th IEEE International Conference on Advanced Information Networking and Applications (AINA'03)*, March 27-29, 2003, Xi'an, China.
2. "An Efficient Optimal Algorithm for Virtual Path Bandwidth Allocation", (CHINESE) *JOURNAL OF COMPUTERS* Vol.27 No.11, pp. 1552-1558, Nov. 2004: <http://engine.cqvip.com/content/citation.dll?id=11096796> (last accessed June 13, 2008).
3. LIU Xiaofan, HUANG Shengye, DAI Zhen, "An Optimal Algorithm for Virtual Path Bandwidth Allocation", *SCIENCE TECHNOLOGY AND ENGINEERING*, 2006 Vol.6 No.12, pp. 1640-1643, <http://www.wanfangdata.com.cn/qikan/periodical.articles/kxjsygc/kxjs2006/0612/061214.htm>.

### **Path Bandwidth Management for Large Scale Telecom Networks [34]**

**M. Logothetis, G. Kokkinakis**

**IEICE Trans. Commun., Vol. E83-B, p.p. 2087-2099, No. 9, Sep. 2000.**

1. "A fast algorithm based on quasi-independent approximation for calculating the call blocking probabilities in a huge shared resource system", *JOURNAL OF CHINA INSTITUTE OF COMMUNICATIONS*, 2002, Vol.23, No.11,, pp. 122-128, (in Chinese: <http://www.wanfangdata.com.cn/qikan/periodical.articles/txxb/txxb2002/0211/021119.htm>).
2. "A Fast Algorithm for Calculating the Call Blocking Probabilities in a Huge Integrated Services Network", *SYSTEMS ENGINEERING AND ELECTRONICS*, 2002 Vol.24 No.4 P.5-8 (in Chinese: <http://www.wanfangdata.com.cn/qikan/periodical.articles/xtgcydzjs/xtgc2002/0204/020402.htm>).
3. "An Efficient Optimal Algorithm for Virtual Path Bandwidth Allocation", (CHINESE) *JOURNAL OF COMPUTERS* Vol.27 No.11, pp. 1552-1558, Nov. 2004:

- <http://engine.cqvip.com/content/citation.dll?id=11096796> (last accessed June 13, 2008).
4. "An Improved Algorithm for the OPBM Algorithm" *COMPUTER ENGINEERING AND APPLICATIONS* 2004, *COMPUTER ENGINEERING AND APPLICATIONS* 2004, Vol.40, No.21, pp. 25-27 (in Chinese: <http://www.wanfangdata.com.cn/qikan/periodical.articles/jsjgcyyy/jsjg2004/0421/042108.htm>).
  5. "On the Optimization of Path Bandwidth Allocation for Large-Scale Communication Networks", *CHINESE JOURNAL OF COMPUTERS* Vol.26 No.6, pp. 682-687, June 2003: <http://engine.cqvip.com/content/citation.dll?id=7931130> and <http://scholar.ilib.cn/A-jsjcx200306013.html> (last accessed June 13, 2008).
  6. *COMPUTER ENGINEERING AND APPLICATIONS* 2003, Vol.39, Issue: 12, pp. 28-30,99 (in Chinese: <http://engine.cqvip.com/content/citation.dll?id=7775605>, last accessed June 13, 2008).
  7. <http://rilibiao.cn/rftp/31035.html> (in Chinese) (last access Feb. 8, 2008).
  8. Huang Shengye (College of Computer and Communications, Hunan University, Changsha, China, 411000), Ye Wu, Feng Suili and Song Hui (Department of Electronics and telecommunications, South China University of Technology, Guangzhou, China, 510640), "Coordination-based optimization of path bandwidth allocation for large-scale telecommunication networks", *Computer Communications*, Volume 27, Issue 1, pp. 70-80, 1 January 2004.
  9. Huang Sheng-Ye, Li Jian-Xiang, Ye Wu, Feng Sui-Li, Song Hui, "Transmission Routings of Coordination Messages for the Optimal Management of Large-scale Networks", *JOURNAL OF SOUTH CHINA UNIVERSITY OF TECHNOLOGY(NATURAL SCIENCE EDITION)*, Vol.32, No.4, pp. 15-18, April 2004, <http://www.wanfangdata.com.cn/qikan/periodical.articles/hnlgdxxb/hnlg2004/0404/040404.htm>
  10. JIANG Hong-yan, LIN Ya-ping, HUANG Sheng-ye (College of Computers and Communications, Hunan University, Changsha 410082, China), Analysis of loss probabilities on the call level and packet level in a multi-rate system, *JOURNAL ON COMMUNICATIONS* , 2007, (28.9) pp. 15-21, (in Chinese, <http://engine.cqvip.com/content/citation.dll?id=25632382>) (last access, June 15, 2008).
  11. LIU Xiaofan, HUANG Shengye, DAI Zhen, "An Optimal Algorithm for Virtual Path Bandwidth Allocation", *SCIENCE TECHNOLOGY AND ENGINEERING*, 2006 Vol.6 No.12, pp. 1640-1643, <http://www.wanfangdata.com.cn/qikan/periodical.articles/kxjsygc/kxjs2006/0612/061214.htm>.
  12. Maosong Luo, Wu Ye, Shenye Huang, SuiliFeng, ZhaonanLi (Electronic and Information institute of South China University of Technology), "An Efficient Optimal Algorithm for Virtual Path Bandwidth Allocation", *Proceedings of the 17th IEEE*

*International Conference on Advanced Information Networking and Applications (AINA'03), March 27-29, 2003, Xi'an, China.*

13. Sheng Xu, BuGong Xu (Coll. of Autom. Sci. & Eng., South China Univ. of Technol., Guangzhou, China) “A fair admission control scheme for multimedia wireless network”, *Proc. International Conference on Wireless Communications, Networking and Mobile Computing (WCNM 2005), Vol.2, pp. 859-862, Wuhan, China, September 23-26, 2005, available at: <http://ieeexplore.ieee.org/iel5/10362/32965/01544186.pdf?tp=&isnumber=32965&arnumber=1544186&punumber=10362> (last access June 15, 2008).*
14. Sheng Ye Huang, Wu Ye and Sui Li Feng (South China University of Technology, Guangzhou, China), “Optimization of Path Bandwidth Allocation for Large-Scale Telecommunication Networks”, *IEICE Trans. Commun., Vol. E85-B, No 12, Dec. 2002 (explicit reference).*
15. Song Hui, Wu Ye, Feng Suili, “The influence of calculating CBP on the performance of step optimal bandwidth allocation”, *CONTROL & AUTOMATION, 2005, Vol.21, No.30, pp. 45-47, (in Chinese, last access: June 15, 2008: [http://www.wanfangdata.com.cn/qikan/periodical.articles/wjsjxx/wjsj2005/0530/053018.htm](http://www.wanfangdata.com.cn/qikan/periodical/articles/wjsjxx/wjsj2005/0530/053018.htm)).*
16. Song Hui, Ye Wu, Feng Suili, (Dept.of Electronic Communications,South China Univ.of Technology,Guangzhou 510641,P.R.China)Huang Shengye (Coll.of Computer and Telecommunications,Hunan Univ.,Changsha 410082,P.R.China), “New bandwidth algorithm and its performance analysis in integrated service network” *Journal of Systems Engineering and Electronics. Vol. 16, no. 3, pp. 660-664. Sept. 2005.*
17. Song Hui, Ye Wu, Feng Suili, Huang Shengye “An approximate bandwidth evaluation algorithm with application to virtual path bandwidth allocation”, *Proceedings of the IEEE 6th Circuits and Systems Symposium on Emerging Technologies: Frontiers of Mobile and Wireless Communication, Volume: 1, pp. 113- 116, Vol.1, 31 May - 2 June, 2004.*
18. Xing Xu (Engineer College, South China Agriculture University, Guangzhou, and Dept. of Electronic Communications, South China University of Technology, Guangzhou, China), Sheng Xu (College of Automation Science and Engineering, South China University of Technology, Guangzhou, China), “A novel call admission control for multimedia network” *Proc. IEEE 2007 International Symposium on Microwave, Antenna, Propagation, and EMC Technologies For Wireless Communications (MAPE), Hangzhou, China, 14-17 August 2007(available at: <http://ieeexplore.ieee.org/iel5/4393432/4393433/04393446.pdf?tp=&arnumber=4393446&isnumber=4393433>).*
19. Xing Xu, Ye Wu, Feng Suili (South China University of Technology, Guangzhou, China), “Research on the calculation of Call Blocking Probability in large-scale multimedia network”, *The Second IEE International Conference on Mobile Technology, Applications and Systems”, Guangzhou, China, 15-17, Nov. 2005,*

(available at:  
<http://ieeexplore.ieee.org/iel5/10837/34155/01628077.pdf?tp=&isnumber=&arnumber=1628077>).

20. Xu Xing, Ye Wu, Feng Suili (South China University of Technology, Guangzhou, China) and Huang Shengye (College of Computer and Telecommunications, Hunan University, Changsha, China), "A fast algorithm for calculating CBP in large-scale sharing resource networks", *IEEE International Symposium on Microwave, Antenna, Propagation and EMC Technologies for Wireless Communications, 2005 (MAPE 2005), Volume 2, 8-12 Aug. 2005 Page(s):1299 - 1302 Vol. 2 Digital Object Identifier 10.1109/MAPE.2005.1618162*.
21. XU Xing, YE Wu, FENG Suili, "A Virtual Path Bandwidth Allocation Algorithm through Look-up-table in Large-scale Telecom Networks", *SCIENCE TECHNOLOGY AND ENGINEERING* 2005 Vol.5 No.24 P.1893-1897, (in Chinese, last access: June 15, 2008: <http://www.wanfangdata.com.cn/qikan/periodical/articles/kxjsygc/kxjs2005/0524/052407.htm>).
22. Xu Xing, Ye Wu, Feng Sui-li, Xie Ming, "Fast Algorithm for Calculating Call-Blocking Probability Based on FFT in Large-Scale Networks", *JOURNAL OF SOUTH CHINA UNIVERSITY OF TECHNOLOGY (NATURAL SCIENCE EDITION)* 2006, Vol.34, No.1, pp.10-13,34 (in Chinese, last access: June 15, 2008: <http://www.wanfangdata.com.cn/qikan/periodical/articles/hnlgdxxb/hnlg2006/0601/060103.htm>).

### **Call-level QoS assessment in ATM networks supporting elastic traffic [37]**

**I. Moscholios, M. Logothetis**

**Proc. ICC 2001, cr1056.pdf, Helsinki, June 11-14, 2001.**

1. Jesús R. Artalejo, Antonio Gómez-Corral, "Retrial Queueing Systems: A Computational Approach", Springer, 2008, ISBN 3540787240, 9783540787242.

### **A Study on Dynamic Load Balance for IEEE 802.11b Wireless LAN [39]**

**I. Papanikos, M. Logothetis**

**Proc. 8th International Conference on Advances in Communication & Control, COMCON 8, Rethymna, Crete, June, 2001.**

1. CHEN Kan, LI Hua, PAN Chunjian, TAN Hongyan, "Research on Radio Resource Management of Centralized WLAN Network", *COMPUTER ENGINEERING*, 2007, Vol.33, Issue:8,129) pp. 124-126,129. (in Chinese <http://engine.cqvip.com/content/citation.dll?id=24295821>).
2. DING Xiao-le, LI Feng-hua, LI He-wu, JIANG-Yong, WU Jian-ping (Network Research Center of Tsinghua University, Beijing 100084, China, "Dynamic Load Balancing Mechanism in WLAN Based on Power Control and Location Information", *JOURNAL OF XIAMEN UNIVERSITY(NATURAL SCIENCE)*, 2007, Vol.46,

Issue:A02, pp. 150-155, (in Chinese  
<http://engine.cqvip.com/content/citation.dll?id=25671357>).

3. Eric Jahn, "*Load Abstraction in Wireless Local Area Networks*", Master Thesis at the School of Information and Communications Technology, KTH, November 2007.
4. Fanglu Guo (Computer Science Department, Stony Brook University), "*Implementation Techniques for Scalable, Secure and QoS-Guaranteed Enterprise-Grade Wireless LANs*", PhD in Computer Science, Stony Brook University, Aug. 2006.
5. Fanglu Guo, Tzi-cker Chiueh (Computer Science Department, Stony Brook University), "*Scalable and Robust WLAN Connectivity Using Access Point Array*", *Proceedings of 2005 International Conference on Dependable Systems and Networks (DSN 2005)*, Yokohama, Japan, June 28 - July 1, 2005.
6. Fethi Filali, *Wimeter: A Novel technique for available bandwidth estimation in WLANs and its assistance for QoS provisioning*, Research Report 2066, RR-06-165, EURECOM, Sophia Antipolis, France, 2006.
7. Glenn Judd, "*Using Emulation to Understand and Improve WLAN Performance*", Thesis Proposal at Carnegie Mellon University, Pittsburgh, PA, USA, 17 Aug. 2003.
8. H. M. Al-Rizzo, M. Haidar, R. Akl, and Y. Chan, "Enhanced Channel Assignment and Load Distribution in IEEE 802.11 WLANs", *IEEE International Conference on Signal Processing and Communications*, 24-27 November, 2007, Dubai, UAE.
9. <http://infonet.cse.kyutech.ac.jp/paper/2002/TakamitsuABE-200302-Master.pdf> (last access June 14, 2008).
10. [http://newsattic.com/d/feed/itpapers\\_com\\_load\\_balancing.html](http://newsattic.com/d/feed/itpapers_com_load_balancing.html) (last access June 15, 2008).
11. [http://resources.zdnet.co.uk/whitepapers/0,1000000651,260152932p-39000740q,00.htm?wp\\_user\\_rating=0](http://resources.zdnet.co.uk/whitepapers/0,1000000651,260152932p-39000740q,00.htm?wp_user_rating=0) (last access June 15, 2008).
12. <http://www.isc.kyutech.ac.jp/kouhou/kouho16/wireless/index.html> (last access Feb.. 8, 2008) (<http://www.isc.kyutech.ac.jp/kouhou/kouho16/wireless/bunken.html>)
13. [http://www-inst.eecs.berkeley.edu/~ee228a/fa03/228A03/presentation\\_schedule.htm](http://www-inst.eecs.berkeley.edu/~ee228a/fa03/228A03/presentation_schedule.htm), (last access June 15, 2008).
14. <http://www-inst.eecs.berkeley.edu/~ee228a/fa03/228A03/WLANandSensorReadings.htm> *Schedule of 802.11 and Sensor Network Presentations, for the course EECS 228A, COMMUNICATION NETWORKS, Fall 2003, at University of California, Berkeley, CA* (last access Feb. 8, 2008).
15. Issam JABRI, Nicolas KROMMENACKER, Adel SOUDANI, Thierry DIVOUX et Salem NASRI, "*Gestion de la qualité de service et équilibrage de charges dans les réseaux sans fils IEEE 802.11*", *Proc. 4th International Conference: Sciences of Electronic, Technologies of Information and Telecommunications (SETIT 2007)*, TUNISIA, March 25-29, 2007. ([http://hal.archives-ouvertes.fr/docs/00/12/15/40/PDF/setit\\_2007.pdf](http://hal.archives-ouvertes.fr/docs/00/12/15/40/PDF/setit_2007.pdf)).

16. Joon-Sang Park and Seung-Jae Han (Department of Computer Science, Yonsei University, Seoul, Republic of Korea), "Load balancing for video streaming services in hierarchical wireless networks", *Computer Networks, Volume 52, Issue 1*, pp. 259-274, 18 January 2008.
17. Li-Hsing Yen and Tse-Tsung Yeh (Chung Hua University, Hsinchu, Taiwan), "SNMP-Based Approach to Load Distribution in IEEE 802.11 Networks", *Proceedings IEEE Semi-annual Vehicular Technology Conference (VTC2006-Spring)*, Melbourne, Australia, 7-10 May, 2006 ([http://www.chu.edu.tw/~lhyen/files/papers/ap\\_load.pdf](http://www.chu.edu.tw/~lhyen/files/papers/ap_load.pdf)).
18. Li-Hsing Yen, Tse-Tsung Yeh, and Kuang-Hui Chi, "Load balancing in IEEE 802.11 networks," *IEEE Internet Computing*, accepted (available online at: [http://www.csie.nuk.edu.tw/~lhyen/files/papers/ap\\_load\\_ICr2.pdf](http://www.csie.nuk.edu.tw/~lhyen/files/papers/ap_load_ICr2.pdf)).
19. M. Haidar, H. M. Al-Rizzo, R. Akl, and Y. Chan, "Channel Assignment and Load Distribution in a Power-managed WLAN", *18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Athens, Greece, 3-7 September, 2007.
20. M. Haidar, R. Akl, H. M. Al-Rizzo, Y. Chan and R. Adada, "Optimal Load Distribution in Large Scale WLAN Networks Utilizing a Power Management Algorithm" *IEEE Sarnoff Symposium 2007*, April 30-May 2<sup>nd</sup>, 2007, Princeton, NJ, USA.
21. Mingming Lu and Jie Wu (Department of Computer Science and Engineering, Florida Atlantic University, US) , "Localized Access Point Association in Wireless LANs with Bounded Approximation Ratio", *Proceedings of 17th International Conference on Computer Communications and Networks (ICCCN)*, 2008.
22. Mohamad Haidar, "[LOAD DISTRIBUTION AND CHANNEL ASSIGNMENT IN IEEE 802.11 WIRELESS LOCAL AREA NETWORKS](#)", PhD Dissertation, Technology University of Arkansas at Little Rock, USA, November 2007.
23. Nadav Aharony, Tzachy Zehavi (Technion Institute of Technology, Haifa, Israel) and Yaakov Engel (University of Alberta, Canada), "Learning Wireless Network Association-Control with Gaussian Process Temporal Difference Methods", *OPNETWORK (2005)*, Washington D.C., USA, August 22 - 26 (**Best Technical Paper Award**).
24. Paramvir (Victor) BAHL, MOHAMMAD T. HAJIAGHAYI, KAMAL JAIN, SAYYED VAHAB MIRROKNI, LILI QIU, AMIN SABERI, "Cell Breathing in Wireless LANs: Algorithms and Evaluation", *IEEE Transactions on Mobile Computing*, pp. 164-178, Vol. 6, No. 2, February 2007.
25. Qian Wu and Carey Williamson (University of Calgary, Canada), "[DYNAMIC CHANNEL RATE ASSIGNMENT FOR MULTI-RADIO WLANS](#)", *Proceedings of IASTED Wireless Networks and Emerging Technologies (WNET 2005)*, Banff, Alberta, Canada, 19-21 July, 2005.
26. SAIKAT RAY, "GLOBAL EFFECTS OF LOCAL TRANSMISSION STRATEGIES IN MULTIHOP WIRELESS NETWORKS", BOSTON UNIVERSITY, COLLEGE OF

- ENGINEERING, *Doctoral Thesis*, 2002 (available on line at: <http://raysaikat.googlepages.com/Doctoralthesis.pdf>)
27. Saikat Ray, David Starobinski and Jeffrey B. Carruthers (Department of Electrical and Computer Engineering, Boston University, Boston, MA 02215, USA), "Performance of wireless networks with hidden nodes: a queuing-theoretic analysis", *Computer Communications* Volume 28, Issue 10, pp. 1179-1192, 16 June 2005.
  28. Takamitsu ABE, Yutaka FUKUDA, and Yuji OIE "Proposal and Evaluation of an Access Point Selection Strategy in Wireless LAN", *IEICE Technical Report. Information networks*, Vol.102, No.693 (20030227) pp. 23-28 IN2002-206.
  29. Takamitsu Abe, Yutaka Fukuda, Yuji Oie (Kyushu Institute of Technology, Iizuka, 820-8502, Japan), "Proposal and Evaluation of an Access Point Selection Strategy in Wireless LAN", *IEICE Technical Report*, NS2002-232, IN2002-205, pp.23-28, 3, March 2003 (in Japanese, <http://infonet.cse.kyutech.ac.jp/paper/2002/TakamitsuABE-200303-IN.pdf>).
  30. Takeshi Ohyabu, Yutaka Fukuda, Yuji Oie (Kyushu Institute of Technology, Iizuka, 820-8502, Japan), "Proposal and Evaluation of an Access Point Selection Strategy in Multihop Wireless LAN", *IEICE Technical Report*, IN2005-207, pp. 299-304, 3, March 2006 (in Japanese, <http://infonet.cse.kyutech.ac.jp/paper/2006/TakeshiOyabu-20070119-IN.pdf>).
  31. Takeuchi S., Sezaki K., Yasuda, Y., "Access Point Selection Strategy in IEEE802.11e WLAN Networks", *IEEE Wireless Communications and Networking Conference (WCNC) 2006*, Las Vegas, USA, April 3-6, 2006.
  32. Takeuchi Shojiro (Nokia Research Center Japan, Tokyo, 153-0064 Japan), Sezaki Kaoru (University of Tokyo, Japan), Yasuda Yasuhiko (Waseda University, Tokyo, Japan), "Access point selection strategy in IEEE802.11E WLAN networks toward load balancing", *Electronics and Communications in Japan, Part 1*, Vol. 90, No. 4, 2007, (available at: <http://www3.interscience.wiley.com/cgi-bin/fulltext/113512280/PDFSTART>)
  33. Takeuchi Shojiro, "Performance improvement of IEEE802.11 wireless LAN networks", *Doctoral Thesis*, Waseda University, 2006 (<http://dspace.wul.waseda.ac.jp/dspace/bitstream/2065/5299/3/Honbun-4222.pdf>)
  34. TSAI Tzu-Chieh, LIEN Chih-Feng, "IEEE 802.11 Hot Spot Load Balance and QoS-Maintained Seamless Roaming", Feng Chia University, Taiwan, (available online at: [http://140.134.132.124/dspace/bitstream/2377/303/1/MC\\_009200394.pdf](http://140.134.132.124/dspace/bitstream/2377/303/1/MC_009200394.pdf)) (last accessed June 14, 2008).
  35. WANG Xin (Guangzhou Institute of Technology, Guangzhou, 510925. China) "Design of WLAN Channel Assignment Algorithm", *MODERN ELECTRONIC TECHNIQUE*, 2006, (29.2), pp. 61-64, (in Chinese, <http://www.cqvip.com/qk/97360A/200602/20973688.html>).

36. Wei Zhou and Daji Qiao (Iowa State University), "Fulfillment-based Fairness: A New Fairness Notion for Multi-AP Wireless Hotspots", *IEEE ICC 2007, Glasgow, Scotland, 24-28 June, 2007*.
37. YANG Renzhong, (Institute of Computing Technology, CAS, Beijing 100080) , HOU Zifeng (Lenovo Corporate Research & Development, Beijing 100085, "Research on Load Distribution of Access Point in Wireless LAN", *COMPUTER ENGINEERING*, 2006 (32.1, pp. 7-9) (in Chinese: [http://engine.cqvip.com/content/tp/95200x/2006/032/001/gc05\\_tp5\\_2090889\\_9.pdf](http://engine.cqvip.com/content/tp/95200x/2006/032/001/gc05_tp5_2090889_9.pdf)).
38. Yasufumi Morioka Takeshi Higashino Katsutoshi Tsukamoto Shozo Komaki (Osaka University, Japan) "PROPOSAL OF SIP BASED AP SELECTION AGENT SYSTEM IN WIRELESS LAN", *Proc. The 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Athens, Greece, 3-7 September, 2007*.
39. Yigal Bejerano (Bell Laboratories), Seung-Jae Han (Yonsei University, Seoul, Korea), Li Erran Li (Bell Laboratories Lucent Technologies, Murray Hill, NJ), "Fairness and Load Balancing in Wireless LANs Using Association Control", *IEEE/ACM TRANSACTIONS ON NETWORKING, VOL. 15, NO. 3, JUNE 2007*.
40. Yigal Bejerano (Bell Laboratories), Seung-Jae Han (Yonsei University, Seoul, Korea), "Cell Breathing Techniques for Load Balancing in Wireless LANs", *Proc. IEEE INFOCOM 2006, pp. 1-13, Barcelona, Spain, April 23-29, 2006*.
41. Yigal Bejerano, Seung-Jae Han and Li (Erran) Li (Bell Laboratories, Lucent Technologies, Murray Hill, NJ, USA), "Fairness and load balancing in wireless LANs using association control", *Proceedings of the 10th Annual International Conference on Mobile Computing and Networking (ACM Mobicom 2004), pp. 315 – 329, Philadelphia, PA, USA, Sep. 26 – Oct. 01, 2004. Based on this paper the following US patent was awarded: Application number: 11/205,768 Publication number: US 2006/0064497 A1 Filing date: Aug 17, 2005 Inventors: Yigal Bejerano, Seung-Jae Han, Li Li, U.S. Classification 709228000 (<http://www1.bell-labs.com/user/erralli/publications/MOBICOM04.pdf>).*

#### **Connection Dependent Threshold Model: A Generalization of the Erlang Multiple Rate Loss Model [44]**

**I. D. Moscholios, M. D. Logothetis and G. K. Kokkinakis**

**Performance Evaluation, Vol.48, Issues 1-4, pp. 177-200, May 2002.**

1. E.M.M. Winands, J. Wieland and B. Sanders, "Dynamic Half-rate Connections in GSM", *Technical report, February 2004, available on-line at: [www.win.tue.nl/bs/spor/2004-06.pdf](http://www.win.tue.nl/bs/spor/2004-06.pdf)*.
2. L. Popova and W. Koch, "Analytical Performance Evaluation of Mixed Services with Variable Data Rates for the Uplink of UMTS", *Proc. of 3<sup>rd</sup> IEEE International Symposium on Wireless Communication Systems (ISWCS' 06), Valencia, Spain, September 2006*.

3. M. Glabowski, "Bandwidth reservation in the generalised model of the limited-availability group", *Proc. 2<sup>nd</sup> International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NETs '03)*, Ilkley, West Yorkshire, U.K, 26-28 July 2004.
4. M. Glabowski, "Blocking Probability in Multi-service Switching Networks with Finite Source Population", *Proceedings of the 2007 IEEE International Conference on Telecommunications and Malaysia International Conference on Communications*, Penang, Malaysia, 14-17 May 2007.
5. M. Glabowski, "Continuous Threshold Model for Multi-service Wireless Systems with PCT1 and PCT2 Traffic", *Proc. of International Symposium on Communications and Information Technologies (ISCIT)*, pp. 427-432, Sydney, Australia, 17-19 Oct. 2007.
6. M. Glabowski, "Generalization of Threshold and Retry Models for Multi-Service Systems with Finite and Infinite Source Population", *Journal of Theoretical and Applied Informatics*, Vol.19, No.2, pp.117-134, Feb. 2007.
7. M. Glabowski, "Modelling of state-dependent multirate systems carrying BPP traffic", *Annals of Telecommunications*, Springer Paris, DOI 10.1007/s12243-008-0034-5, April 2008, available on-line at: <http://www.springerlink.com/content/r6705298h2l77t77/>.
8. M. Glabowski, A. Kaliszan and M. Stasiak, "A Convolution Algorithm for a Full Availability Group with Bandwidth Reservation", *12<sup>th</sup> Polish Teletraffic Symposium 2005*, Poznan, Poland, 19-20 September 2005.
9. M. Glabowski, A. Kaliszan and M. Stasiak, "On the Application of the Asymmetric Convolution Algorithm in Modeling of Full-Availability Group with Bandwidth Reservation", *Proc. of 20<sup>th</sup> Int. Teletraffic Congress 2007*, LNCS 4516, Ottawa, Canada, June 2007.
10. M. Glabowski, M. Stasiak and A. Kaliszan, "Asymmetric Convolution Algorithm for Blocking Probability Calculation in Full-Availability Group with Bandwidth Reservation", *IET Circuits, Devices & Systems*, Vol.2, Issue 1, pp.87-94, February 2008.
11. M. Glabowski, M. Stasiak and P. Zwierzykowski, "Modelling of virtual – circuit switching nodes with multicast connections", to appear in *European Transactions on Telecommunications*, 2008.
12. M. Glabowski, M. Stasiak and P. Zwierzykowski, "Multicast Connections in a Virtual Circuit Switching Node", *Advanced Industrial Conference on Telecommunications*, Lisbon, Portugal, 17-22 July 2005.
13. M. Glabowski, M. Stasiak and P. Zwierzykowski, "Virtual Circuit Switching Node with Bandwidth Reservation and Multicast Connections", *2005 Asia – Pacific conference on Communications*, Perth, Australia, 3-5 October 2005.
14. Mariusz Glabowski, Slawomir Hanczewski, Maciej Stasiak "Calculation of Available Bandwidth for UMTS-HSDPA/HSUPA Users", *Proc. IEEE EUROCON 2007*, Warsaw, Poland, Sep. 9-12, 2007.

15. P. Zwierzykowski, M. Glabowski and M. Stasiak, "Virtual Circuit Switching Node with Bandwidth Reservation and Multicast Switching", *Proc. 12<sup>th</sup> Polish Teletraffic Symposium 2005, Poznan, Poland, 19-20 September 2005*.
16. Sebastia Sallent Ribes and Alberto E. Garcia, Eds., "State of the Art in Resource Management on Wired and Wireless Networks with Resilience", *Deliverable of Information Society Technologies (IST) 6<sup>th</sup> Framework programme Euro-NGI NETWORK OF EXCELLENCE, July 2004, available on-line at: <http://eurongi.enst.fr/archive/127/JRA321.doc>*.
17. G.P. Bacharin, S.N. Klapouschak, I. Sanogo, "PERFORMANCE MODELLING OF 3G NETWORK WITH ELASTIC TRAFFIC AND THRESHOLD ADMISSION CONTROL", *Proc. of XLIV Russian conference on mathematics, informatics, physics and chemistry – Symposium on "Telecommunication systems and teletraffic theory", 21-25 April, 2008*.
18. Jesús R. Artalejo, Antonio Gómez-Corral, "Retrial Queueing Systems: A Computational Approach", Springer, 2008, ISBN 3540787240, 9783540787242.
19. Mariusz Glabowski, Maciej Sobieraj, "Point-to-group Blocking Probability in Switching Networks with Threshold Mechanisms", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009, Venice, Italy, May 24-28, 2009*.
20. Mariusz Glabowski, Maciej Sobieraj, Maciej Stasiak, "Modelling Limited-Availability Groups with BPP Traffic and Bandwidth Reservation", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009, Venice, Italy, May 24-28, 2009*.
21. M. Glabowski, A. Kaliszan and M. Stasiak, "Modeling product-form state-dependent systems with BPP traffic", to appear in *Performance Evaluation*, 2009.
22. M. Stasiak, J. Wiewiora, P. Zwierzykowski and D. Parniewicz, "Analytical Model of Traffic Compression in the UMTS Network", *6<sup>th</sup> European Performance Engineering Workshop, EPEW 09, Imperial College London, 9-10 July 2009*.
23. M. Stasiak and M. Glabowski, "Multiservice Switching Networks with Point to Point Group Selection and Several Attempts of setting up a connection", *Performance Modelling and Analysis of Heterogeneous Networks, ed. Prof D. Kouvatsos, River Publishers, 2009, pp. 3-27*.
24. L. Popova, "Quality of Service oriented Traffic Engineering Methods for Multi-Service Cellular Networks", *Ph.D. thesis, University of Erlangen-Nurnberg, Germany, December 2009*.

**Call Blocking Probabilities in Multi-Rate State-Dependent Loss Models of Quasi-Random Input [52]**

**I. D. Moscholios, M. D. Logothetis and P. I. Nikolaropoulos**

**Proc. 1<sup>st</sup> International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks,**

**HET-NETs '03, Ilkley, West Yorkshire, U.K, 21-23 July 2003.**

1. M. Glabowski and M. Stasiak, "An Approximate Model of the Full-Availability Group with Multi-Rate Traffic and a Finite Source Population", *12<sup>th</sup> GI/ITG Conference on Measuring, Modelling and Evaluation of Computer and Communication Systems (MMB) and 3<sup>rd</sup> Polish-German Teletraffic Symposium (PGTS), MMB&PGTS 2004, Dresden, Germany, 12-15 September 2004.*
2. M. Glabowski and M. Stasiak, "Generalized model of the limited-availability group with finite source population", *Proc. 2<sup>nd</sup> International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NETs '03), Ilkley, West Yorkshire, U.K, 26-28 July 2004.*
3. M. Glabowski, "Continuous Threshold Model for Multi-service Wireless Systems with PCT1 and PCT2 Traffic", *Proc. of International Symposium on Communications and Information Technologies (ISCIT), pp. 427-432, Sydney, Australia, 17-19 Oct. 2007.*
4. M. Glabowski, "Generalization of Threshold and Retry Models for Multi-Service Systems with Finite and Infinite Source Population", *Journal of Theoretical and Applied Informatics, Vol.19, No.2, pp.117-134, Feb. 2007.*
5. Mariusz Glabowski, Slawomir Hanczewski, Maciej Stasiak, "Calculation of Available Bandwidth for UMTS-HSDPA/HSUPA Users", *Proc. IEEE EUROCON 2007, Warsaw, Poland, Sep. 9-12, 2007.*
6. Sebastia Sallent Ribes and Alberto E. Garcia, Eds., "State of the Art in Resource Management on Wired and Wireless Networks with Resilience", *Deliverable of Information Society Technologies (IST) 6<sup>th</sup> Framework Programme Eurongi NETWORK OF EXCELLENCE, July 2004 (available on-line at: <http://eurongi.enst.fr/archive/127/JRA321.doc>).*
7. Mariusz Glabowski, Adam Kaliszan, Maciej Stasiak in Polish: <http://pwt.et.put.poznan.pl/2004/PWT2263.pdf>
8. Mariusz Glabowski, Maciej Sobieraj, "Point-to-group Blocking Probability in Switching Networks with Threshold Mechanisms", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009, Venice, Italy, May 24-28, 2009.*

### **Call-Burst Blocking Probabilities in an ON-OFF Multi-Rate Loss Model of Quasi-Random Input [53]**

**I. D. Moscholios, M.D. Logothetis, M.N. Koukias and P. I. Nikolaropoulos**  
**Proc. 1st International Working Conference on Performance modelling and Evaluation of Heterogeneous Networks (HET-NETs'03), Ilkley, West Yorkshire, U.K., July 21 - 23, 2003.**

1. M. Glabowski, "Generalization of Threshold and Retry Models for Multi-Service Systems with Finite and Infinite Source Population", *Journal of Theoretical and Applied Informatics, Vol.19, No.2, pp.117-134, Feb. 2007.*
2. Mariusz Glabowski, Slawomir Hanczewski, Maciej Stasiak "Calculation of Available Bandwidth for UMTS-HSDPA/HSUPA Users", *Proc. IEEE EUROCON 2007, Warsaw, Poland, Sep. 9-12, 2007.*

3. M. Glabowski, "Continuous Threshold Model for Multi-service Wireless Systems with PCT1 and PCT2 Traffic", *Proc. of International Symposium on Communications and Information Technologies (ISCIT)*, pp. 427-432, Sydney, Australia, 17-19 Oct. 2007.
4. Mariusz Glabowski, Maciej Sobieraj, "Point-to-group Blocking Probability in Switching Networks with Threshold Mechanisms", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009*, Venice, Italy, May 24-28, 2009.

**Call level blocking of ON-OFF traffic sources with retrials under the complete sharing policy [54]**

**I. Moscholios, P. Nikolaropoulos and M. Logothetis,**

**Proc. International Teletraffic Congress, ITC-18, Berlin, 31 Aug. - Sep. 5, 2003.**

1. Jesús R. Artalejo, Antonio Gómez-Corral, "Retrial Queueing Systems: A Computational Approach", Springer, 2008, ISBN 3540787240, 9783540787242.

**Engset multi-rate state-dependent loss models [64]**

**Ioannis D. Moscholios, Michael D. Logothetis and Periklis I. Nikolaropoulos**

**Performance Evaluation, Vol. 59, issue 2-3, pp. 247-277, February, 2005.**

1. M. Glabowski, M. Stasiak and A. Kaliszan, "Asymmetric Convolution Algorithm for Blocking Probability Calculation in Full-Availability Group with Bandwidth Reservation", *IET Circuits, Devices & Systems, Vol.2, Issue 1*, pp.87-94, February 2008.
2. M. Glabowski, "Generalization of Threshold and Retry Models for Multi-Service Systems with Finite and Infinite Source Population", *Journal of Theoretical and Applied Informatics, Vol.19, No.2*, pp.117-134, Feb. 2007.
3. Seferin Mirtchev (Technical University of Sofia, Bulgaria), "Study of Queueing Systems with State Dependent Mean Service Time", *Proc. of the 8<sup>th</sup> MCM COST 290 Action, Malaga, Spain, Feb. 15-16, 2007* (available at: <http://www.cost290.org/td2007/tds/td07007.pdf>).
4. Jesús R. Artalejo, Antonio Gómez-Corral, "Retrial Queueing Systems: A Computational Approach", Springer, 2008, ISBN 3540787240, 9783540787242.
5. S. T. Mirchev and S. I. Statev, "Study of Queueing System with a Generalized Departure Process", *Serdica Journal of Computing, Vol. 2, No. 1*, 2008, pp. 57-72.

**Call-burst blocking of ON-OFF traffic sources with retrials under the complete sharing policy [65]**

**I. D. Moscholios, M. D. Logothetis and G. K. Kokkinakis**

**Performance Evaluation, Vol. 59, Issue 4, pp. 279-312, March 2005.**

1. M. Glabowski, A. Kaliszan and M. Stasiak, "Convolution Algorithm for State-Passage Probabilities Calculation in Limited Availability Group", *Proc. of 4<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2008, Athens, Greece, 8-13 June 2008*.

2. M. Glabowski, "Continuous Threshold Model for Multi-service Wireless Systems with PCT1 and PCT2 Traffic", *Proc. of International Symposium on Communications and Information Technologies (ISCIT)*, pp. 427-432, Sydney, Australia, 17-19 Oct. 2007.
3. Mariusz Glabowski, Slawomir Hanczewski, Maciej Stasiak "Calculation of Available Bandwidth for UMTS-HSDPA/HSUPA Users", *Proc. IEEE EUROCON 2007*, Warsaw, Poland, Sep. 9-12, 2007.
4. M. Glabowski, "Generalization of Threshold and Retry Models for Multi-Service Systems with Finite and Infinite Source Population", *Journal of Theoretical and Applied Informatics*, Vol.19, No.2, pp.117-134, Feb. 2007.
5. M. Glabowski, A. Kaliszan and M. Stasiak, "Modeling product-form state-dependent systems with BPP traffic", to appear in *Performance Evaluation*, 2009.

**An ON-OFF Multi-Rate Loss Model with a Mixture of Service-Classes of Finite and Infinite Number of Sources [66]**

**I. Moscholios, M. Logothetis and M. Koukias**

**Proc. International Conference on Communications (IEEE ICC 2005), Seoul, Korea, 16-20 May, 2005.**

1. M. Hasid, "Analysis of Packet Loss Probing in Packet Networks", PhD dissertation, Electronic Engineering Dept., Queen Mary, University of London, June 2006 (available online at:  
[www.elec.qmul.ac.uk/networks/documents/Maheen\\_thesis\\_000.pdf](http://www.elec.qmul.ac.uk/networks/documents/Maheen_thesis_000.pdf)).

**Call-level blocking of ON-OFF traffic sources in a shared resource environment with batched Poisson arrival processes [70]**

**I. D. Moscholios and M. D. Logothetis**

**Proc. of 19<sup>th</sup> International Teletraffic Congress (ITC), Beijing, China, 29 August – 2 September 2005.**

1. V. Iversen and V. Benetis, "Connection and burst level modeling of multi-service CDMA-systems with hard and soft blocking", *Third EuroNGI Workshop on Wireless and Mobility*, Sitges, Spain, 7-9 June 2006.
2. Shoichi Nishimura, Naohiko Yatomi, "APPLICATION OF A BATCH MARKOVIAN ARRIVAL PROCESS TO IP TRAFFIC", *Mediterranean Journal of Computer and Networks (MEDJCN)*, Volume 3, No. 4, October 2007.
3. V. Benetis, L. Popova and V. Iversen, "Joint Connection and Packet Level Analysis in W-CDMA Radio Interface", *Lecture Notes in Computer Science*, vol. 4396, pp. 186-199, 2007.
4. L. Popova, "Quality of Service oriented Traffic Engineering Methods for Multi-Service Cellular Networks", *Ph.D. thesis*, University of Erlangen-Nurnberg, Germany, December 2009.

**Engset Multirate State-Dependent Loss Models with QoS Guarantee [74]**

**I. D. Moscholios and M. D. Logothetis**

**International Journal of Communications Systems, Vol. 19, Issue 1, pp. 67-93, February 2006.**

1. *Thomas Coutelen (Concordia University, Montréal (Québec) Canada), Gérard Hébuterne (Telecom-SudParis Evry, France), Brigitte Jaumard (Concordia University, Montréal (Québec) Canada), "Core OBS Traffic Properties and Behavior", Les Cahiers du GERAD, G-2009-29, June 2009.*  
<http://www.gerad.ca/fichiers/cahiers/G-2009-29.pdf>

**The Extended Connection Dependent Threshold Model for Elastic and Adaptive Traffic[75]**

**V. G. Vassilakis, I. D. Moscholios and M. D. Logothetis**

**Proc. of the 5<sup>th</sup> International Conference on Communication Systems, Networks and Digital Signal Processing - CSNDSP' 2006, Patras, Greece, 19-21 July 2006.**

1. *Damian Parniewicz Maciej Stasiak and Piotr Zwierzykowski, "Multicast Connections in Mobile Networks with Embedded Threshold Mechanism", Computer Networks, 2011, Volume 160, 407-416, DOI: 10.1007/978-3-642-21771-5\_44*

**Call-level Multi-rate Loss Models for Elastic Traffic [79]**

**V. G. Vassilakis, I. D. Moscholios, M. D. Logothetis and John S. Vardakas**

**Proc. 45<sup>th</sup> FITCE Congress, Athens, Greece, 30 August – 2 September 2006.**

1. *G.P. Bacharin and N.V. Mitkina, "ERLANG MULTI-RATE LOSS MODEL FOR ELASTIC TRAFFIC", Proc. of XLIV Russian conference on mathematics, informatics, physics and chemistry – Symposium on "Telecommunication systems and teletraffic theory", 21-25 April, 2008.*
2. *G.P. Basharin and S.N. Klapouschak, "QoS Analysis of an Adaptive Multirate System with Elastic Traffic", Proc. of XLV Russian conference on mathematics, informatics, physics and chemistry – Symposium on "Telecommunication systems and teletraffic theory", 2009.*
3. *K.E. Samouylov and Adamu Aminu, "Extended Erlang Multirate Loss Model (E-EMLM) for Elastic Traffic", Proc. of XLV Russian conference on mathematics, informatics, physics and chemistry – Symposium on "Telecommunication systems and teletraffic theory", 2009.*
4. *S. Klapoushak, "Mathematical models for mobile communications networks with elastic traffic", Ph.D. Dissertation, Peoples' Friendship University of Russia (PFUR), Moscow, 2010.*

**Performance Modelling of W-CDMA Networks supporting Elastic and Adaptive Traffic [81]**

**G. A. Kallos, V. G. Vassilakis, I. D. Moscholios and M. D. Logothetis**  
**Proc. 4<sup>th</sup> International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NETs '06), Ilkley, West Yorkshire, U.K, 11-13 September 2006.**

1. M. Glabowski, "Modelling of state-dependent multirate systems carrying BPP traffic", *Annals of Telecommunications*, Springer Paris, DOI 10.1007/s12243-008-0034-5, April 2008, available on-line at: <http://www.springerlink.com/content/r6705298h2l77t77/>.
2. M. Glabowski, "Generalization of Threshold and Retry Models for Multi-Service Systems with Finite and Infinite Source Population", *Journal of Theoretical and Applied Informatics*, Vol.19, No.2, pp.117-134, 2007.
3. Mariusz Glabowski, Slawomir Hanczewski, Maciej Stasiak "Calculation of Available Bandwidth for UMTS-HSDPA/HSUPA Users", *Proc. IEEE EUROCON 2007*, Warsaw, Poland, Sep. 9-12, 2007.
4. M. Glabowski, "Continuous Threshold Model for Multi-service Wireless Systems with PCT1 and PCT2 Traffic", *Proc. of International Symposium on Communications and Information Technologies (ISCIT)*, pp. 427-432, Sydney, Australia, 17-19 Oct. 2007.
5. Mariusz Glabowski, Maciej Sobieraj, "Point-to-group Blocking Probability in Switching Networks with Threshold Mechanisms", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009*, Venice, Italy, May 24-28, 2009.
6. Mariusz Glabowski, Maciej Sobieraj, Maciej Stasiak, "Modelling Limited-Availability Groups with BPP Traffic and Bandwidth Reservation", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009*, Venice, Italy, May 24-28, 2009.
7. M. Glabowski, A. Kaliszan and M. Stasiak, "Modeling product-form state-dependent systems with BPP traffic", to appear in *Performance Evaluation*, 2009.

**Calculating Blocking Probabilities in Single-Hop WDM Traffic Groomed Optical Networks [83]**

**John S. Vardakas, Vassilios G. Vassilakis and Michael D. Logothetis**  
**Proc. International Conference on Transparent Optical Networks (ICTON 2007), Rome, 1-5 July, 2007.**

1. H. M. de Almeidas Neto, "Arquitetura De Nos E Engenharia De Trafego Em Redes Opticas", *PhD Dissertation*, University of Sao Paolo, Brazil, September 2009. <http://www.teses.usp.br/teses/disponiveis/18/18155/tde-20112009-112228/>

**On the End-to-End Delay Analysis of the IEEE 802.11 Distributed Coordination Function [84]**

**J.S. Vardakas, I. Papapanagiotou, M.D. Logothetis and S.A. Kotsopoulos**

**Proc. of International Conference on Internet Monitoring and Protection (ICIMP'2007), Silicon Valley, USA, 1-6 July, 2007.**

1. Jun Lv, Xinming Zhang, Xiaojun Han, Yanyan Fu (University of Science and Technology of China, Hefei, China), "A Novel Adaptively Dynamic Tuning of the Contention Window (CW) for Distributed Coordination Function in IEEE 802.11 Ad hoc Networks", *Proc. of International Conference on Convergence Information Technology (ICCIT 2007)*, Gyeongju, Republic of Korea, November 21 - 23, 2007.
2. Jun Lv, "Wireless Ad-hoc Network MAC Layer Algorithm" PhD Dissertation, School of Computer Science & Technology University of Science and Technology of China <http://wenku.baidu.com/view/eaeac22458fb770bf78a55a1.html>
3. Nada Chendeb Taher, Yacine Ghamri Doudane, Bachar El Hassan, "A complete and accurate analytical model for 802.11e EDCA under saturation conditions" , *IEEE/ACS International Conference on Computer Systems and Applications*, pp. 800-807, 2009.
4. Turgay Korkmaz, "Batch Forwarding in Wireless Sensor Networks, Department of Computer Science", University of Texas at San Antonio, Technical Report, CS-TR-2009-007, Aug. 2009, and MILCOM 2010 Military Communications Conference, Oct 31-Nov 3, 2010, San Jose, California, USA, pp. 116-124, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5680104> and  
Turgay Korkmaz, University of Texas at San Antonio, Technical Report, CS-TR-2009-007, Aug. 2009, <http://venom.cs.utsa.edu/dmz/techrep/2009/CS-TR-2009-007.pdf>
5. Nada CHENDEB TAHER, "Modélisation analytique et contrôle d'admission dans les réseaux 802.11e pour une maîtrise de la Qualité de Service", PhD dissertation, L'UNIVERSITÉ D'EVRY VAL D'ESSONNE, August 2009.
6. Zhang, H., Yu, Q., and Wang, B. "A novel energy fairness mechanism based on relay selection for cooperative MAC protocol", *Proceedings of the 5th international Conference on Wireless Communications, Networking and Mobile Computing*, IEEE Press, Piscataway, NJ, 66-69, Beijing, China, Sep. 24 - 26, 2009.
7. Wenbo He, Xue Liu, Long Zheng, Hao Yang, "Reliability Calculus: A Theoretical Framework To Analyze Communication Reliability", *The 30th International Conference on Distributed Computing Systems*, 21-25 June 2010, Genoa, Italy.
8. S. G. S. A. Gawad, "Cooperative communication in wireless local area networks", PhD Dissertation, Department of Electronic and Electrical Engineering, University College London, 2010, <http://eprints.ucl.ac.uk/20200/1/20200.pdf>
9. Faisal Iradat and Sayeed Ghani: "Determining Normalized Measure of Dispersion for Evaluating the Performance of IEEE 802.11", *10<sup>th</sup> International Conference on Next Generation wired/wireless Advanced Networking (NEW2AN)*, St. Peterburg, Russia, 23-25 August 2010.
10. F. Iradat and S. Ghani, "Average End-to-End Packet Delay Performance of IEEE 802.11 with Gamma Distributed Mean Service Time Intervals", *Proc. 18th International Conference on Software, Telecommunications and Computer Networks*

- (Softcomm'10), September 23-25, 2010,  
[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5623632](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5623632)
11. J. Li and C. Chigan, "Delay-aware Transmission Range Control for VANETs", 2010 IEEE Global Telecommunications Conference (GLOBECOM 2010), 6-10 December 2010, Miami, Florida, USA.  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5684168>
  12. N. C. Taher, Y. G. Doudane, B. El Hassan, N. AGOULMINE, "An Accurate Analytical Model for 802.11e EDCA under Different Traffic Conditions with Contention Free Bursting", *Hindawi Journal of Computer Systems, Networks, and Communications*, in press. <http://www.hindawi.com/journals/jcsnc/aip/136585.pdf>, Volume 2011, Article ID 136585, 24 pages, doi:10.1155/2011/136585.
  13. F. Iradat, W. Arain, and S. Andreev, "Normalized Measure of Dispersion Study for Delay Evaluation of Mobile Nodes in IEEE 802.11 Multi-hop Wireless Networks", 7th International Wireless Communications and Mobile Computing Conference (IWCMC 2011), Istanbul, Turkey, July 5-8, 2011.  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=05982555>

#### **Performance Evaluation of IEEE 802.11e based on ON-OFF Traffic Model [89]**

**I. Papapanagiotou, J.S. Vardakas, G.S. Paschos, M.D. Logothetis and S.A. Kotsopoulos**

**Proc. Third International Mobile Multimedia Communications Conference (MobiMedia 2007), Nafpaktos, Greece, 27-29 August 2007.**

1. Lu Ying, Kang feng-ju, Zhong Lian-jiong, Wang Zhi-Guang, "Self-Similar Traffic Generation Method and Application in the Simulation of Mobile Ad-hoc Network", *ISECS International Colloquium on Computing, Communication, Control, and Management*, 2009, 8-9 August 2009, Sanya, China  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=05267705>
2. Gao, J., Hu, J., and Min, G. 2009. "Performance Modelling of IEEE 802.15.4 MAC in LR-WPAN with Bursty ON-OFF Traffic". In *Proceedings of the 2009 Ninth IEEE international Conference on Computer and information Technology - Volume 02*, Xiamen, China, 11 - 14 October 2009.  
[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5329299](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5329299)
3. Jianliang Gao, (School of Computing and Mathematics, University of Ulster, UK), Jia Hu<sup>b</sup>, Geyong Min (Department of Computing, School of Informatics, University of Bradford, Bradford, UK) and Li Xu (School of Mathematics and Computer Science, Fujian Normal University, China) "QoS analysis of medium access control in LR-WPANs under bursty error channels", *Future Generation Computer Systems*, Elsevier, 2010. doi:10.1016/j.future.2010.04.006.
4. T. A. Pazeto, R. M. Silva, S. Motoyama "Impacto das Fontes de Tráfego Multimídias em um Nó de Rede Usando o Escalonador FIFO", INFOBRASIL 2010, May 25-28, Fortaleza, Brazil.

5. T. A. Pazeto, R. M. Silva, S. Motoyama, "Impact of the Multimedia Traffic Sources in a Network Node Using FIFO scheduler", *Second International Conference on Networked Digital Technologies, NDT 2010, Prague, Czech Republic, July 7-9, 2010. Proceedings-Part I*, <http://www.springerlink.com/content/w2mr260038x48w12/>
6. J. Kolbusz, J. Korniak, and S. Paszczyński, "The Study of Traffic Anomalies Using Self similar Traffic Model", *Third Conference on Human System Interactions, Rzeszow, Poland, 13-15 May 2010*, [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5514529](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5514529)
7. S. Andreev, A. Anisimov, Y. Koucheryavy, and A. Turlikov, "Practical Traffic Generation Model for Wireless Networks", *4th ERCIM Workshop on E-Mobility, Luleå University of Technology, Luleå, Sweden May 31, 2010*, <http://wiki.ercim.eu/wg/eMobility/images/f/fa/ERCIM-WS2010-Proceedings-4.pdf>
8. S. H. Nguyen, H. L. Vu and L. L. H. Andrew, "Performance analysis of IEEE 802.11 WLANs with saturated and unsaturated sources", *CAIA Technical report 110811A, 11 August 2011*. <http://caia.swin.edu.au/reports/110811A/CAIA-TR-110811A.pdf> and *IEEE Transactions on Vehicular Technology*, vol.PP, no.99, pp.1, 0, doi: 10.1109/TVT.2011.2174069  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6062695&isnumber=4356907>

**The Wireless Engset Multi-Rate Loss Model for the Call-level Analysis of W-CDMA Networks [90]**

**V. G. Vassilakis, G. A. Kallos, I. D. Moscholios and M. D. Logothetis**

**Proc. of in the 18<sup>th</sup> Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC'07, 3-6 September 2007.**

1. M. Glabowski, M. Stasiak and A. Kaliszan, "Asymmetric Convolution Algorithm for Blocking Probability Calculation in Full-Availability Group with Bandwidth Reservation", *IET Circuits, Devices & Systems, Vol.2, Issue 1, February 2008, pp. 87-94.*
2. K. Kassev, Y. Mihov and B. Tsankov, "Performance Analysis of Call Admission Control for Streaming Traffic with Activity Detection Function", *Int. Book Series Information Science and Computing, "New Trends in Intelligent Technologies", No. 14, Sofia 2009, pp. 47-52.*

**Call-level Performance Modelling of Elastic and Adaptive Service-classes with Finite Population**

**V. G. Vassilakis, I. D. Moscholios and M. D. Logothetis**

**IEICE Transactions on Communications, Vol. E91-B, No.1, January 2008, pp. 151-162.**

1. K. E. Samouylov and I. A. Gudkova, "Recursive Computation for a Multi-Rate Model with Elastic Traffic and Minimum Rate Guarantees, *Proc. of Int. Congress on Ultra*

- Modern Telecommunications and Control Systems and Workshops (ICUMT), Moscow, Russia, 18-20 October 2010, pp. 1065-1072.*
2. G. P. Basharin and S. V. Shtatnov, "Dynamic channel allocation scheme with a queue for elastic traffic", *Proc. of Int. Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT), Moscow, Russia, 18-20 October 2010, pp. 1189-1193.*
  3. G. P. Basharin and T. V. Aterekova, "Analytical model of streaming and elastic traffic with dynamic channel allocation scheme", *Proc. of Int. Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT), Moscow, Russia, 18-20 October 2010, pp. 1086-1090.*
  4. G. P. Basharin and A. M. Konnon, "Analytical model of adaptive traffic carrying signal power control", *Proc. of Int. Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT), Moscow, Russia, 18-20 October 2010, pp. 1078-1085.*
  5. G. P. Basharin and S. V. Shtatnov, "Multiservice model for elastic traffic with finite number of sources", *T-Comm – Telecommunications and Transport magazine, vol 7, 2010.*
  6. I. A. Gudkova and M.V. Luzgachev, "Models for resource allocation in a link of a multiservice network with elastic traffic", *T-Comm – Telecommunications and Transport magazine, vol 7, 2010.*
  7. M. A. Konnon, "Approximate methods for performance determination of a system with finite number of sources", *T-Comm – Telecommunications and Transport magazine, vol 7, 2010.*

#### **Performance Behavior of IEEE 802.11 Distributed Coordination Function [94]**

**J.S. Vardakas, M.K. Sidiropoulos, and M.D. Logothetis**

**IET Circuits, Devices & Systems, Vol. 2, No. 1, pp. 50-59, Feb. 2008.**

1. Der-Jiunn Deng, Rung-Shiang Cheng, Heng-Jia Chang, Hui-Tang Lin and Ruay-Shiung Chang "A cross-layer congestion and contention window control scheme for TCP performance improvement in wireless LANs" *Telecommunications Systems, Springer, DOI10.1007/s11235-009-9166-9, June 2009.*
2. Liu Wen; Zehua Gao; Feng Gao; Di Tang; Ronghua Zhao; , "Performance analysis of IEEE 802.11a in non-saturation conditions," *IEEE International Conference on Network Infrastructure and Digital Content, 2009, IC-NIDC 2009, pp.837-841, Beijing, China, 6-8 Nov. 2009.*
3. G. Tian, "Network protocols and predictive control strategies for distributed real-time control applications", *Ph.D. Dissertation, Faculty of Science and Technology, Queensland University of Technology, Australia, June 2010.*  
[http://eprints.qut.edu.au/41545/1/Guosong\\_Tian\\_Thesis.pdf](http://eprints.qut.edu.au/41545/1/Guosong_Tian_Thesis.pdf)
4. Guosong Tian and Yu-Chu Tian Markov, Faculty of Science and Technology, Queensland University of Technology, Australia, "Modelling of the IEEE 802.11

- DCF for Real-Time Applications with Periodic Traffic, 12th IEEE International Conference on High Performance Computing and Communications (HPCC), 1-3 Sept. 2010, Melbourne, Australia, pp. 419 – 426: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5581479>.
5. H. Zhang, R. Zhao, Z. Gao, "Performance analysis of the 802.11 with a new model in nonsaturated conditions", International Conference on Information, Networking and Automation, ICINA 2010, Kunming, China. October 17-19, 2010, pp. VI-344 - VI-349: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5636374>
  6. G.Tian, Y.-C. Tian and C.Fidge, "Performance Analysis of IEEE 802.11 DCF Based WNCS Networks", In Proceedings of The 35th IEEE Conference on Local Computer Networks, Sheraton Denver Downtown, Denver, Colorado, 11-14 October 2010.
  7. F. Gao, Z. Gao, L. Wen, Y. Wang, J. Liu and D. Hsu, "Performance Analysis of IEEE 802.11a Based on Modified Markov Model in Non-Saturation Conditions", Lecture Notes in Computer Science, Volume 6377, Information Computing and Applications, Pages 245-252, 2010. <http://www.springerlink.com/content/b207g21260k57565/>
  8. F. GAO,Z. GAO,L. WEN,B. ZHANG,D. XU, "Performance Analysis of WLAN based on IEEE 802.11a", Journal of Beijing University of Posts and Telecommunications, Vol. 33, I. 6, pp. 43-47, December 2010.
  9. Lin, Jia-Shi; Feng, Kai-Ten; , "QoS-Based Adaptive Contention/Reservation Medium Access Control Protocols for Wireless Local Area Networks," IEEE Transactions on Mobile Computing , vol.10, no.12, pp.1785-1803, Dec. 2010.
  10. F. Gao, Z.H. Gao, B. Zhang, L. Wen, "Performance analysis of 802.11b based on improved Markov model", Journal of Nanjing University of Posts and Telecommunications (Natural Science), Vol. 31, Issue 1, February 2011, pp. 58-64. <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6058679&isnumber=6058674>
  11. L. Fangmin, M. Xiaolin, H. Fei, and L. Xinhua , "Synchronisation-based, multi-channel multi-interface medium access scheme in ad hoc network", IET Communications. 5, 2082 (2011). <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6041310>
  12. Guosong Tian, Yu-Chu Tian, "Modelling and performance evaluation of the IEEE 802.11 DCF for real-time control", Computer Networks, Available online 14 October 2011, ISSN 1389-1286, 10.1016/j.comnet.2011.10.001. <http://www.sciencedirect.com/science/article/pii/S1389128611003598>

**John S. Vardakas, Vassilios G. Vassilakis and Michael D. Logothetis, "Blocking Analysis in Hybrid TDM-WDM Passive Optical Networks supporting elastic traffic", in proc. of the 4th Advanced International Conference on Telecommunications (AICT 2008), Athens, Greece, 8-13 June 2008.**

1. Yong-bang Lin, Wei-ping Liu, Hong-bin Huang, Shun—er Chen, "The Research and Scheme of WDM-PON Technology", *Optical Communication Technology*, Vol. 33, No.2, pp.1-4, 2009. [http://www.oriprobe.com/journals/gtxjs/2009\\_2.html](http://www.oriprobe.com/journals/gtxjs/2009_2.html)
2. B. Chen, L. Shi, C. Gan, "Optimization model and simulation analysis of wavelength-shared WDM-PON", 2nd International Conference on Information Science and Engineering, 4-6 December 2010, Hangzhou, China, pp. 2216-2219, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5691537>

#### **Call Blocking Probabilities in a W-CDMA Cell with Fixed Number of Channels and Finite Number of Traffic Sources [104]**

**Georgios A. Kallos, Vassilios G. Vassilakis, and Michael D. Logothetis**  
**Proc. of the 6<sup>th</sup> International Conference on Communication Systems, Networks and Digital Signal Processing - CSNDSP 2008, Graz, Austria, 23-25 July 2008.**

1. Maciej Stasiak, Piotr Zwierzykowski and Janusz Wiewióra, "Asymmetric Convolution Algorithm for Blocking Probability Calculation in Full-Availability Group with Bandwidth Reservation", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009*, Venice, Italy, May 24-28, 2009.
2. Y. Deng and P. Prucnal, "Performance Analysis of Heterogeneous Optical CDMA Networks With Bursty Traffic and Variable Power Control", *IEEE/OSA Journal of Optical Communications and Networking*, vol.3, no.6, June 2011, pp.487-492.

#### **Loss Models in Traffic-Groomed WDM All-Optical Networks**

**John. S. Vardakas, Vassilios G. Vassilakis and Michael D. Logothetis**  
**Proc. of the 6<sup>th</sup> International Conference on Communication Systems, Networks and Digital Signal Processing - CSNDSP 2008, Graz, Austria, 23-25 July 2008.**

1. Javier Sierra, Yezid Donoso, "A predictive algorithm for wavelength allocation in WDM networks analyzing residual dispersion and unicast/multicast traffic with QoS", *Rev. Fac. Ing. Univ. Antioquia N.º 50* pp. 170-180. December, 2009, [http://www.scielo.unal.edu.co/scielo.php?pid=S0120-62302009000400015&script=sci\\_arttext&tlng=en](http://www.scielo.unal.edu.co/scielo.php?pid=S0120-62302009000400015&script=sci_arttext&tlng=en)

#### **The Wireless Engset Multi-rate Loss Model for the Handoff Traffic Analysis in W-CDMA Networks [106]**

**Vassilios G. Vassilakis and Michael D. Logothetis**  
**Proc. 19th IEEE Annual International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC 2008), Cannes, France, 15-18 September, 2008.**

1. Maciej Stasiak, Piotr Zwierzykowski and Janusz Wiewióra, "Asymmetric Convolution Algorithm for Blocking Probability Calculation in Full-Availability Group with Bandwidth Reservation", *Proc. of 5<sup>th</sup> IARIA Advanced Int. Conf. on Telecommunications, AICT 2009*, Venice, Italy, May 24-28, 2009.

2. Damian Parniewicz Maciej Stasiak and Piotr Zwierzykowski, "Multicast Connections in Mobile Networks with Embedded Threshold Mechanism", Springer, Computer Networks, 2011, Volume 160, 407-416, DOI: 10.1007/978-3-642-21771-5\_44

**Blocking Analysis for Priority Classes in hybrid WDM-OCDMA Passive Optical Networks [119]**

**John S. Vardakas, Vassilios G. Vassilakis and Michael D. Logothetis**

**Proc. Fifth IARIA Advanced International Conference on Telecommunications - AICT 2009, Venice, Italy, May 24-28, 2009**

1. F. Aurzada, M. Scheutzow, M. Reisslein, N. Ghazisaidi, and M. Maier. "Capacity and Delay Analysis of Next-Generation Passive Optical Networks (NG-PONs)", Technical Report, Arizona State University, Dept. of Electrical Eng., Jan. 2010.  
AND the same paper has been published at:  
IEEE Transactions on Communications.  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5733453>
2. Frank Aurzada, Michael Scheutzow, Martin Reisslein, and Martin Maier, (Inst. for Math., Tech. Univ. of Berlin, Berlin, Germany) "Towards a Fundamental Understanding of the Stability and Delay of Offline WDM EPONs", IEEE/OSA Journal of Optical Communications and Networking, Vol. 2, Issue 1, pp. 51-66, January 2010, [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5434710](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5434710).
3. Y. Deng and P. Prucnal, "Performance Analysis of Heterogeneous Optical CDMA Networks With Bursty Traffic and Variable Power Control", IEEE/OSA Journal of Optical Communications and Networking, vol.3, no.6, June 2011, pp.487-492.

**Packet Delay Analysis for Priority-Based Passive Optical Networks [123]**

**John S. Vardakas and Michael D. Logothetis**

**Proc. of the IARIA Fifth European Conference on Universal Multiservice Networks, Sliema, Malta, October 11-16, 2009.**

1. F. Aurzada, M. Scheutzow, M. Reisslein, N. Ghazisaidi, and M. Maier. Capacity and Delay Analysis of Next-Generation Passive Optical Networks (NG-PONs), Technical Report, Arizona State University, Dept. of Electrical Eng., Jan. 2010.  
AND  
IEEE Transactions on Communications.  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5733453>

TOTAL CITATIONS:            277

In addition, communication technologies are advancing and related international standards are maturing to be deployed in substation environment. Renewed attention is required on protection and control strategies that build upon the available and emerging technologies backed by a cost analysis that can be used to support a long-term value proposition. Evolution of protection system. This report starts by reviewing the advancements in substation protection and control technology . Next the report describes centralized protection and control and reviews its history. Then the report reviews some of the existing technologies that can support it. From my answer to a different question: Distributed version control systems (DVCSs) solve different problems than Centralized VCSs. Comparing them is like comparing hammers and screwdrivers. Centralized VCS systems are designed with the intent that there is One True Source that is Blessed, and therefore Good. All developers work (checkout) from that source, and then add (commit) their changes, which then become similarly Blessed. The only real difference between CVS, Subversion, ClearCase, Perforce, VisualSourceSafe and all the other DVCSes is in the workflow, performance, and integration that M. Logothetis "Centralized Path Bandwidth Control through Digital Cross-Connect Systems", IEICE Technical Report, Vol. 91, No 381, IN91 "122, 1991.Google Scholar. [12]. M. Logothetis and G. Kokkinakis: "Optimal computer-aided capacity management in digital networks", Proc. EURINFO 88, Athens, 1988.Google Scholar. [13]. K. Mase, M. Imase, "An adaptive Capacity Allocation Scheme in Telephone Networks", IEEE Trans. on Commun., Vol. COM-32, Feb. 1982.Google Scholar. [14]. I.Z. Papanikos, M. Logothetis and G. Kokkinakis, "Virtual Path Bandwidth Control versus Dynamic Routing Control", in ATM Networks: Performance Modeling and Evaluation, Vol.2, (Ed. D. Kouvatsos), Chapman & Hall, London, 1996.Google Scholar. [18].