

REFERENCES

1. Chingyao Huang, Hung-Hui Juan, Meng-Shiang Lin, And Chung-Ju Chang,” Radio resource management of heterogeneous services in Mobile WiMAX systems” IEEE Wireless Communications, Feb 2007, pp20-26.
2. IEEE Standard for Local and metropolitan area networks. Part 16: Air Interface for Fixed Broadband Wireless Access Systems, IEEE Std. 802.16, Apr. 2002.
3. Draft IEEE Standard for Local and metropolitan area networks. Part 16: Air Interface for Fixed Broadband Wireless Access Systems, IEEE Std. 802.16, May 2004.
4. Chung-Wei Lin, Yu-Cheng Chen and Ai-Chun Pang, “A New Resource Allocation Scheme for IEEE 802.16-based Networks”, 3rd IEEE VTS Asia Pacific Wireless Communications Symposium (AWPCS 2006), Aug. 2006.
5. “Air Interface for Fixed Broadband Wireless Access System”, IEEE STD 802.16 – 2004, October, 2004
6. “Air Interface for Fixed and Mobile Broadband Wireless Access System”, IEEE P802.16e/D12, February, 2005.
7. M. Castrucci, I. Marchetti, C. Nardini, N. Ciulli, G. Landi, A. Ichimescu and P. Neves, “A Framework for Resource Control in WiMAX Networks”, Next Generation Mobile Applications, Services and Technologies, 2007. NGMAST '07. The 2007 International Conference, 2007.

8. Hanwu Wang and Weijia Jia, "Scalable and Adaptive Resource Scheduling in IEEE 802.16 WiMAX Networks", IEEE "GLOBECOM" 2008 proceedings.
9. J. G. Andrews, A. Ghosh, R. Muhamed, Fundamentals of WiMAX Understanding Broadband Wireless Networking, Chapter 2, Prentice Hall, 2007
10. Lien-Wu Chen, Yu-Chee Tseng, You-Chiun Wang, Da-Wei Wang and Jan-Jan Wu, "Exploiting Spectral Reuse in Routing, Resource Allocation and Scheduling for IEEE 802.16 Mesh Networks", IEEE transactions on vehicular technology, vol. 58, no. 1, January 2009.
11. R.Murali Prasad, Dr.P.Satish Kumar , "An Adaptive Power Efficient Pocket Scheduling Algorithm for WiMAX Networks", International Journal of Computer Science and Information Security, pp295-300, Vol 8, No 1, April 2010.
12. Yaaqob A.A. Qassem, A. Al-Hemyari, Chee Kyun Ng, N.K. Noordin and M.F.A. Rasid, "Review of Network Routing in IEEE 802.16 WiMAX Mesh Networks", Australian Journal of Basic and Applied Sciences, vol. 3(4), 2009. pp. 3980-3996.
13. Y.Yang and R. Kravets, "Contention-Aware Admission Control for Ad Hoc Networks", IEEE Transactions on Mobile Computing, 4(1), pp. 363-377, 2005.
14. T. Salonidis, M. Garetto, A. Saha and E. Knightly, "Identifying High Throughput Paths in 802.11 Mesh Networks: a Model-based Approach", Proceedings of ICNP, pp. 21-30, 2007.

15. R.Murali Prasad, Dr.P.Satish Kumar,” A Joint Routing and Bandwidth Allocation Protocol for IEEE 802.16 WiMAX Mesh Networks”, International Journal of Engineering and Technology, pp442-446,Vol 2, No 5, OCT 2010.
16. Jeevan B. Chalke, “Scheduling and Call Admission Control (CAC) in IEEE 802.16 Mesh Networks”, July 2007.Project report, IIT DELHI.
17. Shiao-Li Tsao and You-Lin Chen, “Energy-efficient packet scheduling algorithms for real-time communications in a mobile WiMAX system”, Computer Communications Volume 31, Issue 10, June 2008.
18. Raj Iyengar, Koushik Kar, Biplab Sikdar, Xiang Luo, “QoS Provisioning and Radio Resource Allocation in OFDMA based WiMAX Systems”,White paper,2010.
19. S.C. Wang, K.Q. Yan and C.H. Wang, “A Channel Allocation based WiMax Topology”, Proceedings of the International MultiConference of Engineers and Computer Scientists 2009 Vol I, IMECS 2009, March 18 - 20, 2009, Hong Kong.
20. Arijit Ukil and Jaydip Sen, “QoS Aware Cross-Layer Optimized Resource Allocation in WiMAX Systems”, International Conference on Wireless VITAE'09,2009.
21. Ke Yu, Xuan Wang, Songlin Sun, Lin Zhang, Xiaofei Wu, “A Statistical Connection Admission Control Mechanism for Multiservice IEEE 802.16 Network”, 69th IEEE Conference Vehicular Technology, April, 2009, pp. 1-5.
22. Ramesh Babu H.S, Gowrishankar and Satyanarayana .P, “An Analytical framework for Call Admission Control in Heterogeneous Wireless

- Networks”, IJCSNS International Journal of Computer Science and Network Security, VOL.9 No.10, October 2009, pp.162-166.
23. Sarat Chandra and Anirudha Sahoo, “An Efficient Call Admission Control for IEEE 802.16 Networks”, 15th IEEE Workshop on Local and Metropolitan Area Networks, LANMAN, June, 2007. pp. 188 – 193
 24. Eunhyun Kwon et al, “A Performance Model for Admission Control in IEEE 802.16”, Proceedings of WWIC 2005, LNCS 3510, Springer-Verlag, vol. 3510, pp. 159-168, May, 2005.
 25. IEEE 802.16e-2005 and IEEE 802.16-2004/Cor 1-2005 (Amendment and Corrigendum to IEEE Std 802.16- 2004), “IEEE Standard for Local and Metropolitan Area Networks Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems Amendment 2: Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands and Corrigendum 1,” 2006, pp. 0_1–822
 26. Salim Nahle and Naceur Malouch, “Joint Routing and Scheduling for Maximizing Fair Throughput in WiMAX Mesh Networks”, INFOCOM Workshops, IEEE, 19-25 April 2009
 27. Chakchai So, Raj Jain and Abdel-Karim Tamimi, “Scheduling in IEEE 802.16e Mobile WiMAX Networks: Key Issues and a Survey”, IEEE JSAC-BAN paper #1569098295
 28. IEEE 802.16* and WiMAX, Broadband Wireless Access for Everyone, white paper by Intel
 29. M. Rehan Rasheed, M. Kamran Khan, M. Naseem, Aisha Ajmal and Ibrahim M. Hussain, “Performance of Routing Protocols in WiMAX

- Networks”, IACSIT International Journal of Engineering and Technology, Vol.2, No.5, Oct.2010.
30. Kaarthick B, Nagarajan N, Raguvaran E, Raja Mohamed A, Saimethun G, “Adaptive Routing algorithm to support Distributed Services in WiMAX”, International Journal of Digital Content Technology and its Applications, Vol.3, No. 2, June 2009, pp.26-32.
 31. Farhat Anwar, Md. Saiful Azad, Md. Arafatur Rahman, and Mohammad Moshee Uddin, “Performance Analysis of Ad hoc Routing Protocols in Mobile WiMAX Environment”, International Journal of Computer Science, august, 2008.
 32. Mehmet S. Kuran, Gurkan Gur, Tuna Tugcu, Fatih Alagoz, “Cross-Layer Routing-Scheduling in IEEE 802.16 Mesh Networks”, Proceedings of the 1st international conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications, 2008.
 33. Peng-Yong Kong, Jaya Shankar Pathmasuntharam, Haiguang Wang, Yu Ge, Chee-Wei Ang, Wen Su, Ming-Tuo Zhou and Hiroshi Harada, “A Routing Protocol for WiMAX Based Maritime Wireless Mesh Networks”, Vehicular Technology Conference, VTC, spring 2009.
 34. Ben-Jye Chang, Ying-Hsin Liang, and Shin-Shun Su, “Adaptive Competitive On-Line Routing Algorithm for IEEE 802.16j WiMAX Multi-Hop Relay Networks”, pp.1-5.
 35. Tung-Shih Su, Chih-Hung Lin, Wen-Shyong Hsieh, “A Novel QoS-Aware Routing for Ad Hoc Networks”, Proceedings of Joint Conference on Information Sciences, JCIS, OCT 2006.

36. Yi- Neng lin, Che-Wen Wu, Ying-Dar Lin, Yuan-Cheng Lai, “A Latency and Modulation Aware Bandwidth Allocation Algorithm for WiMAX Base Stations”, Wireless Communications and Networking Conference, IEEE, April 2008,pp.1408-1413.
37. R. Mahmood, M. I. Tariq and M. S. H. Khiyal , “A Novel Parameterized QoS based Uplink and Downlink Scheduler for Bandwidth/Data Management over IEEE 802.16d Network”, International Journal of Recent Trends in Engineering, Vol 2, No. 1, November 2009.
38. Eun-Chan Park, Jae-Young Kim, Hwangnam Kim, and Han-Seok Kim, “Bidirectional Bandwidth Allocation for TCP Performance Enhancement in IEEE 802.16 Broadband Wireless Access Networks”, Personal, Indoor and mobile communications, PIMRC 2008, IEEE 19th international symposium, Sept 2008.
39. Hung-Chin JANG and Wei-Ching LIN, “Effective Bandwidth Allocation for WiMAX Mesh Network”, Journal of systematic, Cybernetics AND INFORMATICS, VOL 8, NO 2, 2010.
40. Abdou Ahmed, Abdallah Shami, “A New Bandwidth Allocation Algorithm for EPON-WiMAX Hybrid Access Networks”, the IEEE Globecom proceedings, DEC 2010.
41. Niharika Kumar, K N Balasubramanya Murthy, and Amitkeerti Mahaveer Lagare, “User Oriented Network Aware Bandwidth Allocation in WiMAX”, Int. J. on Recent Trends in Engineering & Technology, Vol. 05, No. 01, Mar 2011.

42. Xu-Zhen, Huang-ChuanHe and Hu-XianZhi, "Interference-aware Multi-path Routing and Bandwidth Allocation for Mobile Wireless Networks", Global telecommunications conference, Nov 2008.
43. Claudio Cicconetti, Ian F. Akyildiz, and Luciano Lenzini, "Bandwidth Balancing in Multi-Channel IEEE 802.16 Wireless Mesh networks", IEEE INFOCOM proceedings, 2007, pp.2108-2116.
44. Hanwu Wang, Weijia Jia, "Scalable and Adaptive Resource Scheduling in IEEE 802.16 WiMAX Networks", IEEE "GLOBECOM",2008.
45. Jad El-Najjar, "Designing Optimized Joint Coding-aware Routing and Scheduling in WiMAX Mesh Networks", Military communications conference-Networking protocols and Performance Track,2010
46. Shwetha.D, Subramanya Bhat.M., Devaraju.J.T, "Performance Evaluation of Connection Admission Control for IEEE 802.16 Networks", International Journal of Computer Applications, Vol.25, No.8, July 2011, pp.1-7.
47. Jani Lakkakorpi, Alexander Sayenko, "Measurement-Based Connection Admission Control Methods for Real-Time Services in IEEE 802.16e", Second International Conference on Communication Theory, Reliability, and Quality of Service, July, 2009, pp. 37 - 41.
48. A. Antonopoulos, C. Skianis, C. Verikoukis, "Traffic-Aware Connection Admission Control Scheme for Broadband Mobile Systems", IEEE Globecom proceedings, Vol.14, No.8, August 2010, pp. 719 - 721.
49. Enrique Stevens-Navarro and Vincent W.S. Wong, "Virtual Partitioning for Connection Admission Control in Cellular/WLAN Interworking",

IEEE Wireless Communications and Networking Conference, April 2008, pp. 2039 – 2044.

50. Ikbal Chammakhi Msadaa, Daniel Câmara, and Fethi Filali, “Scheduling and CAC in IEEE 802.16 Fixed BWNs: A Comprehensive Survey and Taxonomy”, IEEE Communications Surveys & Tutorials, Vol.12, No.4, 2010, pp. 459 – 487.
51. Anas Majeed, A. A. Zaidan, B. B. Zaidan, and Laiha Mat Kiah, “Towards for Admission Control in WiMAX Relay Station Mesh Network for Mobile Stations out of Coverage Using Ad-Hoc”, World Academy of Science, Engineering and Technology, 2009, pp.463-467.
52. Iftexhar Ahmad and Daryoush Habibi, “Call Admission Control Scheme for Improved Quality of Service in WiMAX Communication at Vehicular Speeds”, Proceedings of IEEE international conference on high performance computing and communications, pp 413-417.
53. Abdelali El Bouchti, Said El Kafhali and Abdelkrim Haqiq, “Performance Modelling and Analysis of Connection Admission Control in OFDMA based WiMAX System with MMPP Queuing” World of Computer Science and Information Technology Journal (WCSIT), Vol. 1, No. 4, 2011, pp.148 – 156.
54. Prasun Chowdhury, Iti Saha Misra, Salil K Sanyal, “An Integrated Call Admission Control and Uplink Packet Scheduling Mechanism for QoS Evaluation of IEEE 802.16 BWA Networks”, Canadian Journal on Multimedia and Wireless Networks Vol. 1, No. 3, April 2010.
55. Sarabjot Singh, Sanjay K. Bose, Maode Ma, “Analytical and Simulation Studies for Call Admission and Resource Allocation Schemes proposed

- for WiMAX system”, IEEE International Conference on Communication Systems, Nov. 2010, pp.522 – 526.
56. Jinchang Lu, Maode Ma, “A cross-layer elastic CAC and holistic opportunistic scheduling for QoS support in WiMAX”, Computer Networks Vol. 54, No. 7, May 2010, pp.1155-1168.
 57. Ben-Jye Chang, Yan-Ling Chen and Chien-Ming Chou, “Adaptive Hierarchical Polling and Cost-based Call Admission Control in IEEE 802.16 WiMAX Networks”, IEEE Wireless Communications and Networking Conference, Mar, 2007, pp. 1954 - 1958.
 58. Kalikivayi Suresh, Iti Saha Misra, Kalpana saha (Roy), “Bandwidth and Delay Guaranteed Call Admission Control Scheme for QOS Provisioning in IEEE 802.16e Mobile WiMAX”, IEEE Global Telecommunications Conference, Dec 2008, pp.1-6.
 59. Juan I. del-Castillo, Jesus Delicado, Francisco M. Delicado, Teresa Olivares and Jose M. Villalon, “A Scheduling Algorithm for Overhead Reduction in IEEE 802.16”, Fifth International Conference on Systems and Networks Communications, 2010, pp.289-293.
 60. Sin-seok Seo, Joon-Myung Kang, Nazim Agoulmine, John Strassner, and James Won-Ki Hong, “FAST: A Fuzzy-based Adaptive Scheduling Technique for IEEE 802.16 Networks”, 12th IFIP/IEEE International Symposium on Integrated Network Management, 2011, pp.201-208.
 61. Shou-Chih Lo and Lyu-Chen Ou, “Efficient Routing and Centralized Scheduling Algorithms for IEEE 802.16 Mesh Networks”, IEEE International Conference on Scalable Computing and Communications (Scalcom), September, 2009, pp.1-31.

62. S. J. K. Jagadeesh Kumar, T. Purusothaman, "An Enhanced Scheduling Scheme for QoS Guarantee using Channel State Information in WiMAX Networks", *European Journal of Scientific Research*, Vol.64 No.2 (2011), pp. 285-292.
63. C. Cicconetti, L. Lenzini, D. Migliorini, E. Mingozzi, "Power-aware opportunistic downlink scheduling in IEEE 802.16 wireless networks", *Computer Communications* 34,2011,pp. 2026–2035.
64. Supratim Deb, Vivek Mhatre, Venkatesh Ramaiyan, "WiMAX Relay Networks: Opportunistic Scheduling to Exploit Multiuser Diversity and Frequency Selectivity". *Proceedings of 14th international conference on Mobile Computing and networking, MobiCom 2008*, pp 163-174.
65. Jia Liu, Y. Thomas Hou, "Optimal Downlink Power Allocation and Scheduling for MIMO-Based WiMAX Access Networks", *IEEE Journal on selected areas in communications*.
66. Wail Mardini, Mai M. Abu Alfoul, "Modified WRR Scheduling Algorithm for WiMAX Networks", *Network Protocols and Algorithms*, Vol. 3, No. 2, 2011
67. Chin-Tser Huang, Chang-Ling Huang "David Chuck", J. Morris Chang, "Analysis and Enhancement of Bandwidth Request Strategies in IEEE 802.16 Networks", *IEEE ICC 2010*
68. Saeid M. Jafari, Majid Taghipour and M.R. Meybodi, "Bandwidth Allocation in Wimax Networks Using Reinforcement Learning", *World Applied Sciences Journal* Vol. 15 No.4, 2011,pp: 525-531
69. R. Bhakthavathsalam, R. ShashiKumar, V. Kiran, Y. R. Manjunath, "Analysis and Enhancement of BWR Mechanism in MAC 802.16 for

- WiMAX Networks”, *International Journal of Advanced Computer Science and Applications*, Vol. 1, No. 5, November 2010, pp.35-42.
70. Jae-Han JEON and Jong-Tae LIM, “Dynamic Bandwidth Allocation for QoS in IEEE 802.16 Broadband Wireless Networks”, *IEICE TRANS. COMMUN.*, VOL.E91–B, NO.8 AUGUST 2008, pp.2707-2710.
 71. Kun Zhu, Dusit Niyato, and Ping Wang, “Dynamic Service Selection and Bandwidth Allocation in IEEE 802.16m Mobile Relay Networks”, *Proceedings of GlobeCom*, 2010.
 72. Antoni Morell, Gonzalo Seco-Granados, and Jose Lopez Vicario, “Fair Adaptive Bandwidth and Subchannel Allocation in the WiMAX Uplink”, *EURASIP Journal on Wireless Communications and Networking*, pp.1-13.
 73. Yi-Neng Lin ,Ying-Dar Lin , Yuan-Cheng Lai , Che-Wen Wu, “Highest Urgency First (HUF): A latency and modulation aware bandwidth allocation algorithm for WiMAX base stations”, *Computer Communications* 32,2009, pp. 332–342.
 74. Yanbin Lu and Guoqing Zhang, “Optimum Fair Bandwidth Allocation Scheme for IEEE 802.16 Mesh Mode with Directional Antenna”. *Proceedings of Vehicular technology conference, VTC 2006*.
 75. Amir Esmailpour and Nidal Nasser, “A Novel Scheme for Packet Scheduling and Bandwidth Allocation in WiMAX Networks”, *IEEE ICC proceedings*, 2011.
 76. Yi-Ting Mai, Chun-Chuan Yang, Jeng-Yueng Chen, Kuo-Yang Chen, “A Zone-based Bandwidth Allocation Protocol in WiMAX Multi-hop Relay Networks”, *ICOIN 2011*, pp.257-261.

77. S. Geetha and R. Jayaparvathy, "Dynamic Bandwidth Allocation for Multiple Traffic Classes in IEEE 802.16e WiMax Networks: A Petrinet Approach", *Journal of Computer Science*, Vol.7, No. 11, 2011, pp. 1717-1723
78. Giuseppe Iazeolla, Pieter Kritzinger and Paolo Pileggi, "Modelling Quality of Service in IEEE 802.16 Networks", 16th international conference Telecommunication and computer networks, 2008, pp 130-124.
79. Glaucio H. S. Carvalho, Rodolfo W. L. Coutinho, Joao C. W. A. Costa, "Design of Optimal Call Admission Control for WiMax /WiFi Integration", International conference on Microwave and Optoelectronics, pp 564-568.
80. Shiyong Zhang, F. Richard Yu and Victor C.M. Leung, "Joint Connection Admission Control and Routing in IEEE 802.16-Based Mesh Networks", ICC proceedings, 2008.
81. Floriano De Rango, Andrea Malfitano, Salvatore Marano, "GCAD: A Novel Call Admission Control Algorithm in IEEE 802.16 based Wireless Mesh Networks", *Journal Of Networks*, Vol. 6, No. 4, April, 2011, pp. 595-606.
82. Georgios Theodoridis, Fotini-Niovi Pavlidou, "A hybrid CAC algorithm for maximizing downlink capacity of M-WiMAX systems", *Journal wireless networks*, vol 17, April 2011, pp 629-644.
83. Neeraj Poudyal, Ha Cheol Lee, Yong Jin Kwon, Byung Seub Lee, "Delay-bound Admission Control for Real-time Traffic in Fourth Generation IMT-Advanced Networks based on 802.16m", *Advances in Electrical and Computer Engineering*, Volume 11, No. 1, 2011, pp.31-38.

84. Samuel K. Falowo and Neco Ventura, "An Efficient Connection Admission Control (CAC) for QoS Provisioning in IEEE 802.16", Proceedings of AFRICON 2011.