

Journal Papers

1. Chen-Hua Shih and **Yaw-Chung Chen**, "A FMIPv6 Based Handover Scheme for Real-Time Applications in Mobile WiMAX," Accepted by Journal of Networks
2. **Yaw-Chung Chen** and Wen-Kang Jia, "Challenge and Solutions of NAT Traversal for Ubiquitous and Pervasive Applications on the Internet," The Journal of Systems & Software, Volume 82, Issue 10, October 2009, pp. 1620-1626
3. **Y. C. Chen** and C. H. Lin, "Achieving Low-latency Handoff through Two-Stage Authentication in WLAN," Asian Journal of Health and Information Sciences, Vol. 4, No. 1, March 2009, pp. 64-79.
4. **Yaw-Chung Chen** and Wen-Yen Chen, "An Agent-Based Metric for Quality of Services over Wireless Networks," The Journal of Systems & Software, Volume 81 (2008), pp. 1625-1639
5. Wen-Kang Jia and **Yaw-Chung Chen**, "Performance Evaluation of Ethernet Frame Burst-mode(FBM) in EPON Downstream Link," ETRI Journal, Volume 30, Number 2, April 2008, pp.290-300
6. Cheng-Yuan Ho, **Yaw-Chung Chen**, Yi-Cheng Chan, and Cheng-Yun Ho, "Fast Retransmit and Fast Recovery Schemes of Transport Protocols: A Survey and Taxonomy," Computer Networks, Vol. 52, Issue 6, pp. 1308 – 1327, April 2008
7. Cheng-Yuan Ho, Yi-Cheng Chan, and **Yaw-Chung Chen**, "WARD: a transmission control protocol-friendly stateless active queue management scheme," IET Communications, Vol. 1, Issue 6, pp. 1179-1186, December 2007
8. Cheng-Yuan Ho, Yi-Cheng Chan, and **Yaw-Chung Chen**, "WARD: A Deterministic Fluid Model," IET Communications, Vol. 1, Issue 4, pp. 711-717, August 2007
9. Cheng-Yuan Ho, Yi-Cheng Chan, and **Yaw-Chung Chen**, "TCP-Ho: A Congestion Control Algorithm with Design and Performance Evaluation," IEICE Transactions on Communications, Vol. E90-B, No. 3, pp. 516-526, March 2007
10. Cheng-Yuan Ho, **Yaw-Chung Chen**, and Cheng-Yun Ho, "Improving Performance of Delay-based TCPs with Rerouting," IEEE Communications Letters, Vol. 11, Issue 1, pp. 88-90, January 2007
11. Cheng-Yuan Ho, Yi-Cheng Chan, and **Yaw-Chung Chen**, "Gallop-Vegas: An Enhanced Slow-Start Mechanism for TCP Vegas," Journal of Communications and Networks (KICS), Vol. 8, No. 3, pp.351-359, September 2006
12. Cheng-Yuan Ho and **Yaw-Chung Chen**, "Snug-Vegas and Snug-Reno: Performance Improvement of TCP over Heterogeneous Networks," IEE Proceedings – Communications, Vol. 153, No. 2 April 2006, pp. 169-176
13. Yuan-Rung Yang, Chia-Tai Chan and **Yaw-Chung Chen**, "Improving Performance of XCP over High Bandwidth-Delay Product Networks," GESTS International Transactions on Computer Science and Engineering, Vol. 28, No. 1 February 2006, pp. 133-144.
14. Cheng-Yuan Ho, Chen-Hua Shih, **Yaw-Chung Chen**, and Yi-Cheng Chan, "An Aided Congestion Avoidance Mechanism for TCP Vegas," Lecture Notes in Computer Science (LNCS) 3619/2005, pp. 961-971.
15. **Y. C. Chen**, P. C. Wang, C. L. Lee and C. T. Chan, "Performance Improvement of Hardware-based Packet Classification Algorithm," Lecture Notes in Computer Science (LNCS), Vol. 3421, pp. 728-736, April 2005.

Conference Papers

1. **Yaw-Chung Chen**, Shang-SHu Li and Kuan-Teng Chen, "An Efficient Source Allocation for QoS Support in IPTV Systems," To appear on Proceedings of IEEE COMPSAC 2010.
2. Yue-Huei Huang and **Yaw-Chung Chen**, "A Cross-Layer Media-Independent Handover Mechanism in Heterogenous WiMAX/WiFi Networks," To appear on Proceeding of INC 2010.
3. Yi-Fei Chang and **Yaw-Chung Chen**, "A Smart QoS Provisioning System For Voice Over IP," *Proceedings of IASTED International Conference on Internet and Multimedia Systems and Applications*, July 13-15, 2009, Cambridge, United Kingdom.
4. Shiue-Tzeng Lu and **Yaw-Chung Chen**, "A SIP-based Audio Conferencing System on P2P network," 2009 Cross-Strait Information Science and Technology Conference & 2009 Mobile Computing Workshop
5. Yuan-Chih Chang, Chen-Hua Shih and **Yaw-Chung Chen**, "A Latency and Modulation Aware Scheduling Solution for IEEE 802.16 Base Stations", *Proceedings of 2008 International Computer Symposium (ICS 2008)*, Taipei, Taiwan.
6. **Yaw-Chung Chen** and Han-Ru Yeh, "An Adaptive Polling Scheme Supporting Audio/Video Streaming in Wireless LANs," Proceedings of IEEE FTDCS 2008, Kunming, China, 21-23 Oct. 2008, pp.16-22.
7. K. Y. Ho and **Y. C. Chen**, "Performance Evaluation of IPv6 Packet Classification with Caching," Proceedings of Third International Conference on Communications and Networking in China, August 25-27, 2008, Hangzhou, China
8. Li-Che Hung and **Yaw-Chung Chen**, "Parallel Table Lookup for Next Generation Internet," Proceedings of 32nd Annual IEEE International Computer Software and Applications Conference (COMPSAC'08), Turku, Finland, July 28 – August 1, 2008, pp. 52-59.
9. Cheng-Yueh Liu and **Yaw-Chung Chen**, "An Adaptive Bandwidth Request Scheme for QoS Support in WiMAX Polling Services," Proceedings of 28th International Conference on Distributed Computing Systems Workshops, 2008, ICDCS '08, June 17-20, Beijing, pp. 60-65
10. Ashraf D. Milhim and **Yaw-Chung Chen**, "An Adaptive Polling Scheme to Improve Voice Transmission over Wireless LANs", *Proceedings of 2007 ACS/IEEE International Conference on Computer Systems and Applications*, May 13-16, Amman, Jordan

11. **Yaw-Chung Chen** and Wen-Yen Chen, “An Agent-Based Metric for Quality of Services over Wireless Networks,” *Proceedings of 30th Annual International Computer Software and Applications Conference (COMPSAC'06)*, September 2006, pp. 236-246, Chicago, USA.
12. Wen-Kang Jia, **Yaw-Chung Chen**, and Cheng-Yuan Ho, “Traffic Behavior Analysis of Frame Bursting for SISO IEEE 802.3z Networks,” *Proceedings of SPIE (APOC 2006)*, Vol. 6354, pp. 63541L-1-63541L-11, Gwangju, Korea, September 2006.
13. Ming-Chuan Hsu and **Yaw-Chung Chen**, “Enhanced PCF Protocols for Real-time Multimedia Services over 802.11 Wireless Networks,” *Proceedings of 26th IEEE International Conference on Distributed Computing Systems Workshops*, July 2006, Lisbon, Portugal.
14. Wen-Kang Jia and **Yaw-Chung Chen**, “Performance and Traffic Behavior Analysis of Frame Bursting for GbE CSMA/CD SISO Networks”, *Proceedings of Joint International Conferences on Optical Internet and Next Generation Network (COIN-NGNCON 2006)*, Jeju, Korea
15. Cheng-Yuan Ho, Yi-Cheng Chan, and **Yaw-Chung Chen**, “A TCP-Friendly Stateless AQM Scheme for Fair Bandwidth Allocation,” *Proceedings of IEEE ICAS 2005 & ICNS 2005*, Papeete, Tahiti, French Polynesia, October 2005. [SCI, EI]
16. Cheng-Yuan Ho, Chen-Hwa Shih, **Yaw-Chung Chen**, and Yi-Cheng Chan, “Aided Congestion Avoidance Mechanism for TCP Vegas”, *Proceedings of Third International Conference, ICCNMC 2005*, Zhanggijie, China, August 2005, pp. 961 – 971
17. **Yaw-Chung Chen**, Pi-Chung Wang, Chun-Liang Lee, and Chia-Tai Chan, “Performance Improvement of Hardware-based Packet Classification Algorithm,” *Proceedings of 4th International Conference on Networking 2005 (ICN'05)*, Reunion Island, France, April 2005, pp. 728-736
18. Cheng-Yuan Ho, Yi-Cheng Chan, and **Yaw-Chung Chen**, “An Efficient Mechanism of TCP-Vegas on Mobile IP Networks,” *Proceedings of IEEE INFOCOM 2005*, Vol. 4, pp. 2776-2780 & *IEEE Global Internet Symposium in conjunction with IEEE INFOCOM 2005*, pp. 1-5, Miami, Florida, USA, March 2005. [EI]
19. Cheng-Yuan Ho, Yi-Cheng Chan, and **Yaw-Chung Chen**, “An Enhanced Slow-Start Mechanism for TCP Vegas,” *Proceedings of IEEE ICPADS 2005*, Vol. 1, pp.405-411, Fukuoka Institute of Technology (FIT), Fukuoka, Japan, July 2005. [EI] (The 11th International Conference on Parallel and Distributed Systems)

20. Yuan-Rung Yang, Chia-Tai Chan, Pi-Chung Wang and **Yaw-Chung Chen**, "Performance Enhancement of XCP for High Bandwidth-Delay Product Networks," 7th International Conference on Advanced Communication Technology (*ICACT'05*), Phoenix Park, Korea, February 2005, pp. 456-461.