

一、 期刊論文

1. C.-W. Huang, S.-C. Tseng, P. Lin, and Y. Kawamoto, "Radio Resource Scheduling for Narrowband Internet of Things Systems: A Performance Study," *IEEE Network Magazine*, to appear.
2. P. Polacek, C.-W. Huang, and J.-W. Chiang, "Unified Opportunistic Scheduling for Layered Multicast over Cognitive Radio Networks," *IEEE Transactions on Mobile Computing*, vol. 15, no. 10, pp. 2627–2639, 2016.
3. W.-H. Lai, P. Polacek, and C.-W. Huang, "A Posted-Price Auction for Heterogeneous Spectrum Sharing under Budget Constraints," *EAI Endorsed Transactions on Wireless Spectrum*, vol. 16, no. 9, 2016.
4. P. Polacek, T.-Y. Yang, and C.-W. Huang, "Opportunistic multicasting for single frequency networks," *Wireless Communications and Mobile Computing*, vol. 16, no. 15, pp. 2253–2262, 2016.
5. K. Suto, H. Nishiyama, N. Kato, and C.-W. Huang, "An Energy-Efficient and Delay-Aware Wireless Computing System for Industrial Wireless Sensor Networks," *IEEE Access*, vol. 3, pp. 1026–1035, 2015.
6. P.-H. Wu, C.-W. Huang, J.-N. Hwang, J.-Y. Pyun, and J. Zhang, "Video-Quality-Driven Resource Allocation for Real-Time Surveillance Video Uplinking over OFDMA-based Wireless Networks," *IEEE Transactions on Vehicular Technology*, vol. 64, no. 7, pp. 3233 – 3246, Jul. 2015.
7. R.-J. Wang, C.-W. Huang, and P.-C. Chang, "Adaptive Downsampling Video Coding with Spatially Scalable Rate-Distortion Modeling," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 24, no. 11, pp. 1957 – 1968, Nov. 2014.
8. H.-Y. Cheng, V. Gau, C.-W. Huang, and J.-N. Hwang, "Advanced Formation and Delivery of Traffic Information in Intelligent Transportation Systems," *Expert Systems with Applications*, vol. 39, no. 9, pp. 8356–8368, Jul. 2012.
9. C.-W. Huang, S.-M. Huang, P.-H. Wu, S.-J. Lin, and J.-N. Hwang, "OLM: Opportunistic Layered Multicasting for Scalable IPTV over Mobile WiMAX," *IEEE Transactions on Mobile Computing*, vol. 11, no. 3, pp. 453–463, Mar. 2012.
10. P. Polacek and C.-W. Huang, "QoS Scheduling with Opportunistic Spectrum Access for Multimedia," in *Cognitive Radio and Interference Management: Technology and Strategy*. IGI Global, 2012.
11. V. Gau, C.-W. Huang, and J.-N. Hwang, "Reliable Multimedia Broadcasting over Dense Wireless Ad-Hoc Networks," *Journal of Communications*, vol. 4, no. 9, pp. 614–627, Oct. 2009. (Invited Paper)
12. C.-W. Huang, M. Loiacono, J. Rosca, and J.-N. Hwang, "Airtime Fair Distributed Cross-Layer Congestion Control for Real-Time Video Over WLAN," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 19, no. 8, pp. 1158–1168, Aug. 2009.
13. VJ.-N. Hwang, C.-W. Huang, and D. Chang, "Cross-Layer End-to-End QoS for Scalable Video over Mobile WiMAX," in *Mobile WiMAX*, Wiley-IEEE Press, 2008, ch. 13.

14. C.-W. Huang and J.-N. Hwang, "An Embedded Packet Train and Adaptive FEC Scheme for Effective Video Adaptation over Wireless Broadband Networks," *Journal of Zhejiang University SCIENCE A*, vol. 7, no. 5, pp. 811–818, May 2006.

二、 研討會論文

1. S. Verma, Y. Kawamoto, H. Nishiyama, N. Kato, and C.-W. Huang, "Novel Group Paging Scheme for Improving Energy Efficiency of IoT Devices over LTE-A Pro Networks with QoS Considerations," in *IEEE International Conference on Communications (ICC)*, 2018. (Best paper award)
2. C.-Y. Yang, Y.-C. Zhang, Y.-H. Chen, and C.-W. Huang, "Toward semantic loop closure in simultaneous localization and mapping systems," in *Current Developments in Lens Design and Optical Engineering XIX*, 2018, vol. 10745, p. 16.
3. I. Althamary, C.-W. Huang, P. Lin, S.-R. Yang, and C.-W. Cheng, "Popularity-Based Cache Placement for Fog Networks," in *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2018.
4. C.-W. Huang, C.-T. Chiang, and Q. Li, "A Study of Deep Learning Networks on Mobile Traffic Forecasting," in *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, 2017.
5. M. B. Safianowska, Y.-C. Chang, T.-J. Wang, C.-W. Huang, and C. Huang, "An Auction Based Smart Service Robot Implemented on a Fog Computing Node," in *IEEE Fog World Congress (FWC)*, 2017.
6. R. Boisguene, S.-C. Tseng, C.-W. Huang, and P. Lin, "A survey on NB-IoT downlink scheduling: Issues and potential solutions," in *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2017.
7. C.-W. Huang, S.-H. Ou, and Y.-S. Su, "Seamless vertical handover for video streaming with dynamic multipath TCP," in *International Conference on Consumer Electronics-Taiwan (ICCE-TW)*, 2016.
8. S.-H. Ou, C.-W. Huang, T.-K. Lee, and C.-Y. Huang, "Out-of-Order Transmission Enabled Congestion Control and Scheduler for Multipath TCP," in *International Wireless Communications and Mobile Computing Conference (IWCMC)*, 2016.
9. S.-C. Tseng, C.-W. Huang, T.-L. Lu, C.-T. Chiang, and W.-H. Wei, "A Field-tested QoS Scheduler for Diverse Traffic Flows over Mobile Networks," in *Wireless and Optical Communication Conference (WOCC)*, Taipei, Taiwan, Oct. 2015. (Best paper award)
10. C.-W. Tseng, R. Boisguene, C.-W. Huang, P. Lin, and Y. Kawamoto, "A Scheduled Grouping Scheme for MTC Device ID Sharing," in *International Wireless Communications and Mobile Computing Conference (IWCMC)*, Dubrovnik, Croatia, Aug. 2015.
11. R. Boisguene, S.-H. Chou, and C.-W. Huang, "A Survey on Cognitive Machine-to-Machine Communications," in *International Wireless Communications and Mobile Computing Conference (IWCMC)*, Nicosia, Cyprus, Aug. 2014.

12. K.-M. Wen, T.-L. Lu, C.-W. Huang, and W.-H. Wei, "Evaluation of Proportional Fair LTE MultiUser MIMO Schedulers," in *IEEE Vehicular Technology Society Asia Pacific Wireless Communications Symposium (APWCS)*, Pingtung, Taiwan, Aug. 2014.
13. T.-P. Lu, C.-T. Chiang, and C.-W. Huang, "Seamless WLAN to Mobile Handover with MPTCP," in *IEEE Vehicular Technology Society Asia Pacific Wireless Communications Symposium (APWCS)*, Pingtung, Taiwan, Aug. 2014.
14. T.-Y. Ku, Y.-T. Sun, and C.-W. Huang, "Integrated Congestion and Path Control for Multipath TCP," in *IEEE Vehicular Technology Society Asia Pacific Wireless Communications Symposium (APWCS)*, Pingtung, Taiwan, Aug. 2014.
15. X. Chen, J.-N. Hwang, C.-N. Lee, and C.-W. Huang, "An Efficient CQI Feedback Resource Allocation Scheme for Wireless Video Multicast Services," in *IEEE Global Communications Conference (GLOBECOM)*, Atlanta, USA, Dec. 2013.
16. Y.-H. Chang and C.-W. Huang, "MIMO Mode Switching with 4G LTE Downlink QoS Scheduling," in *Asia-Pacific Radio Science Conference (AP-RASC)*, Taipei, Taiwan, Sep. 2013.
17. C.-W. Huang, H.-M. Lin, and W.-H. Wei, "On sellers' quantity games for dynamic spectrum sharing," in *International Wireless Communications and Mobile Computing Conference (IWCMC)*, Jul. 2013, pp. 1554–1558.
18. [4] R.-J. Wang, C.-W. Huang, and P.-C. Chang, "Adaptive Coding Configuration for Multi-resolution Video Coding," in *IEEE International Symposium on Consumer Electronics (ISCE)*, Hsinchu, Taiwan, Jun. 2013.
19. P. Polacek and C.-W. Huang, "Rateless Code Based Opportunistic Multicasting over Cognitive Radio Networks," in *IEEE Global Communications Conference (GLOBECOM)*, Anaheim, USA, Dec. 2012.
20. P. Polacek and C.-W. Huang, "Atomic Fragmentation for Efficient Opportunistic Multicasting over Cognitive Radio Networks," in *IEEE Global Conference on Consumer Electronics (GCCE)*, Tokyo, Japan, Sep. 2012.
21. C.-W. Huang, "Video over Infrastructure-Based Cognitive Radio Networks," in *The 12th Emerging Information and Technology Conference (EITA-EITC)*, Toronto, Canada, Aug. 2012.
22. P. Polacek, T.-Y. Yang, and C.-W. Hunag, "Joint Opportunistic Spectrum Access and Scheduling for Layered Multicasting over Cognitive Radio Networks," *IEEE International Workshop on Multimedia Signal Processing (MMSP)*, Oct. 2011.
23. R.-J. Wang, C.-W. Hunag, and P.-C. Chang, "An MSE-Based Quality Metric for Optimal Video Post-Scaling," *The Fifth International Workshop on Image Media Quality and its Applications (IMQA)*, Oct. 2011.
24. S.-M. Huang, C.-W. Hunag, P.-H. Wu, J.-N. Hwang, V. Gau, and Y.-C. Chen, "Resource Efficient Opportunistic Multicast Scheduling for IPTV over Mobile WiMAX," *IEEE Vehicular Technology Conference (VTC)*, pp. 1-5, 2010.
25. C.-W. Hunag, P.-H. Wu, S.-J. Lin, and J.-N. Hwang, "Layered Video Resource Allocation in Mobile WiMAX Using Opportunistic Multicasting," *IEEE Wireless Communications and Networking Conference (WCNC)*, pp. 1-6, 2009.

26. H.-Y. Cheng, V. Gau, C.-W. Hunag, J.-N. Hwang, and C.-C. Yu, "Advanced Travel Information System in Heterogeneous Networks," *International Conference on Signal and Image Processing (ICSIP)*, Amsterdam, pp. 203-207, 2009.
27. C.-W. Hunag, M. Loiacono, J. Rosca, and J.-N. Hwang, "Distributed Cross Layer Congestion Control for Real-Time Video over WLAN," *IEEE International Conference on Communications (ICC)*, pp. 2270-2276, 2008.
28. C.-W. Hunag, J.-N. Hwang, and D. Chang, "Congestion and error control for layered scalable video multicast over WiMAX," *IEEE Mobile WiMAX Symposium*, pp. 114-119, 2007.
29. C.-W. Hunag, A. Chindapol, J.A. Ritcey, and J.-N. Hwang, "Link Layer Packet Loss Classification for Link Adaptation in WLAN," *40th Annual Conference on Information Sciences and Systems (CISS)*, pp. 603-608, 2006.
30. C.-W. Hunag, S. Sukittanon, J.A. Ritcey, A. Chindapol, and J.-N. Hwang, "An Embedded Packet Train and Adaptive FEC Scheme for VoIP Over Wired/Wireless IP Networks," *IEEE International Conference on Acoustics Speed and Signal Processing Proceedings (ICASSP)*, p. V-429-V-432, 2006.
31. C.-W. Hunag, J. Yoo; S. Jung, K. Choi, and J.-N. Hwang, "Object Highlighting and Tracking in a Novel VideoGIS System for Telematics," *IEEE International Workshop on Multimedia Signal Processing (MMSP)*, pp.1-4, Oct. 2005.
32. W. Hsu, L. Kennedy, C.-W. Hunag, S.-F. Chang, C.-Y. Lin, and G. Iyengar, "News video story segmentation using fusion of multi-level multi-modal features in TRECVID 2003," *IEEE International Conference on Acoustics Speed and Signal Processing Proceedings (ICASSP)*, pp. iii-645-8 vol.3, 17-21 May 2004.
33. W. Hsu, S.-F. Chang, C.-W. Hunag, L. Kennedy, C.-Y. Lin, and G. Iyengar, "Discovery and Fusion of Salient Multi-modal Features towards News Story Segmentation," *IS&T/SPIE Symposium on Electronic Imaging: Science and Technology*, Jan. 2004.
34. C.-W. Hunag, W. Hsu, and S.-F. Chang, "Automatic Closed Caption Alignment Based on Speech Recognition Transcripts," *Columbia ADVENT Technical Report*, No. 005, 2003.

三、 專利

1. C.-W. Huang, S.-C. Tseng, T.-L. Lu, and C.-N. Lee, "Customizable Cross-Traffic-Type Radio Resource Scheduler for Mobile Communication Networks," Taiwan Patent Number I536861, 2015.
2. R. V. Balan, C.-W. Huang, J. Rosca, and O. Sarca, "Method for Congestion Detection in Packet Transmission Networks," US Patent Number 7916658, 2011.
3. M. Loiacono, J. Rosca, C.-W. Huang, and J.-N. Hwang, "System and Method for Distributed CrossLayer Congestion Control for Real-Time Video over Wireless LAN," US Patent Number 7916659, 2011.