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8. REFERENCES

- [1] Intel WiFi Link 5300. <http://www.intel.com/products/wireless/adapters/5000/>.
- [2] Ath9k: Atheros Linux Wireless Driver. <http://wireless.kernel.org/en/users/Drivers/ath9k/>.
- [3] Iperf: TCP/UDP Bandwidth Measurement Tool. <http://dast.nlanr.net/Projects/Iperf/>.
- [4] Linux 802.11n CSI Tool. <http://dhalperi.github.io/linux-80211n-csitool/>.
- [5] HostAP: IEEE 802.11 AP, IEEE 802.1X/WPA/WPA2/EAP/RADIUS Authenticator. <http://hostap.epitest.fi/hostapd/>.
- [6] Linux Wireless Tools. <http://linuxwireless.org/>.
- [7] BHARTIA, A., CHEN, Y. C., AND QIU, L. Harnessing Frequency Diversity in Wi-Fi Networks. In *Proc. ACM MobiCom'11* (Sept. 2011).
- [8] FENG, K., LIN, P., AND LIU, W. Frame-Aggregated Link Adaptation Protocol for Next Generation Wireless Local Area Networks. *EURASIP Journal on Wireless Communications and Networking* (2010).
- [9] GINZBURG, B., AND KESSELMAN, A. Performance Analysis of A-MPDU and A-MSDU Aggregation in IEEE 802.11n. In *Proc. IEEE Sarnoff Symposium* (May 2007).
- [10] GRUNHEID, R., ET AL. Robust Channel Estimation in Wireless LANs for Mobile Environments. In *Proc. IEEE VTC'02 Fall* (Sept. 2002).
- [11] HE, X., LI, F. Y., AND LIN, J. Link Adaptation with Combined Optimal Frame Size and Rate Selection in Error-Prone 802.11n Networks. In *Proc. IEEE ISWCS'08* (Oct. 2008).
- [12] IEEE STD. *IEEE 802.11, Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications*, Mar. 2012.
- [13] KIM, J., KIM, S., CHOI, S., AND QIAO, D. CARA: Collision-Aware Rate Adaptation for IEEE 802.11 WLANs. In *Proc. IEEE INFOCOM'06* (Apr. 2006).
- [14] KIM, S. I., OH, H. S., AND CHOI, H. K. Mid-ambly Aided OFDM Performance Analysis in High Mobility Vehicular Channel. In *Proc. IEEE IV'08* (June 2008).
- [15] LIN, Y., AND WONG, V. W. Frame Aggregation and Optimal Frame Size Adaptation for IEEE 802.11n WLANs. In *Proc. IEEE GLOBECOM'06* (Nov. 2006).
- [16] PERAHIA, E. AND STACEY, R. Next Generation Wireless LANs: Throughput, Robustness, and Reliability in 802.11n. Cambridge University Press, 2008.
- [17] STEELE, R. *Mobile Radio Communications*, first ed. IEEE Press, 1995.
- [18] WONG, S. H. Y., ET AL. Robust Rate Adaptation for 802.11 Wireless Networks. In *Proc. ACM MobiCom'06* (Sept. 2006).
- [19] YIN, W., BIALKOWSKI, K., INDULSKA, J., AND HU, P. Evaluation of MadWifi MAC Layer Rate Control Mechanisms. In *Proc. IEEE IWQoS'10* (June 2010).
- [20] ZHANG, J., TAN, K., ZHAO, J., WU, H., AND ZHANG, Y. A Practical SNR-Guided Rate Adaptation. In *Proc. IEEE INFOCOM'08* (June 2008).