

References

- [1] U. Paul, R. Crepaldei, Jeongkeun, L.-J. Lee, and R. Etkin, "Characterizing wifi link performance in open outdoor networks," in SECON 2011.
- [2] A. Paulraj, R. Nabar and D. Gore, Introduction to Space-Time Wireless Communications, Cambridge University Press, 2003.
- [3] E. G. Larsson and P. Stoica, Space-Time Block Coding for Wireless Communications, Cambridge University Press, 2003.
- [4] D. Tse and P. Viswanath, Fundamentals of Wireless Communications, Cambridge University Press, 2005.
- [5] T. Geroge, MIMO Antenna Technology for Wireless Communications, CRC Press, 2006.
- [6] G. Foschini and M. Gans, "On limits of wireless communications in a fading environment when using multiple antennas," Wireless Pers. Comm., vol. 6, no. 3, pp. 311-335, March 1998.
- [7] E. A. Jorswieck and H. Boche, "Channel Capacity and Capacity-Range of Beamforming in MIMO Wireless Systems Under Correlated Fading with Covariance Feedback," IEEE Trans. Wireless Communications, vol. 3, no. 5, September 2004.
- [9] IEEE 802.11 standard, [online]. <http://www.ieee802.org/11> (Accessed on 3-7-15).
- [8] IEEE 802.15 standard, [online]. <http://www.ieee802.org/15> (Accessed on 3-7-15).

REFERENCES

- [10] IEEE 802.16 standard, [online]. <http://www.ieee802.org/16> (Accessed on 3-7-15) .
- [11] IEEE 802.11 Standard 1999 Edition (R2003), "Information technology- Telecommunications and information exchange between systems- Local and metropolitan area networks- Specific requirements- Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications," 2003.
- [12] R. Patra, S. Nadevshi, S. Surana, and A. Sheth. WiLDNet: Design and implementation of high performance wifi based long distance networks. In Proc. NSDI, 2007.
- [13] B. Raman and K. Chebrolu. Design and evaluation of a new mac protocol for long distance 802.11 mesh networks. In Proc. MobiCom, 2005.
- [14] Sklar, B. (2002) Digital Communications: Fundamentals and Applications 2/E, Prentice Hall.
- [15] Rappaport, T.S. (2001) Wireless Communications: Principles and Practice 2/E, Prentice Hall.
- [16] High capacity digital communications laboratory. History of MIMO [online]. <http://www.ece.ualberta.ca/~hcdc/mimohistory>.
- [17] Morais Douglas H. Multiple antenna techniques webcast [online]. http://read.pudn.com/downloads162/doc/738265/mimo_withsponsorslics.pdf ,(Accessed on 24-6-15).
- [18] Alamouti, S.M. A simple transmit diversity scheme for wireless communications. IEEE J. Select. Areas Communication, 1998
- 19. Tarokh, V., JafraKhani, H., and Calderbank, A.R. Space time block codes from orthogonal designs. IEEE Trans, 1999.
- [20] P. Bhagwat, B. Raman, and D. Sanghi. Turning 802.11 inside-out. In Proc. SIGCOMM, 2004.
- [21] K. Chebrolu, B. Raman, and S. Sen. Long-distance 802.11b links:

REFERENCES

- Performance measurements and experience. In Proc. MobiCom, 2006.
- [22] P. Gupta, B. Jain, B. Raman, and P. Kulkarni. Link-level measurement of outdoor 802.11g links. In Proc. WiMesh, 2009.
- [23] A. Sheth, S. Nedeveshi, R. Patra, and L. Subramanian. Packet loss characterization in wifi-based long distance networks. In Proc. Infocom, 2007.
- [24] V. Shrivastava, S. Rayanchu, J. Yoon, and S. Banerjee. 802.11n under the microscope. In Proc. Internet Measurement Conference, 2008
- [25] D. Gesbert, H. Bolcskei, D. Gore, and A. Paulraj. Outdoor mimo wireless channels: Models and performance prediction. IEEE Transactions on Communication, 50:1926–1934, 2002.
- [26] U. Paul, R. Crepaldi, Jeongkeun, L.-J. Lee, and R. Etkin, “Characterizing wifi link performance in open outdoor networks,” in SECON 2011.
- [27] L. Simic, M. Petrova and P. Mahonen, ”Wi-Fi, But Not on Steroids: Performance Analysis of a Wi-Fi-Like Network Operating in TVWS Under Realistic Conditions,” IEEE International Conference on Communication, Jun. 2012.
- [28] Zhou Lan, G. Villardi, k. Mizutani, and H. Harada, “Design and implementation of a Wi-Fi prototype system in TVWS based on IEEE 802.11 af,” Wireless Communications and Networking Conference (WCNC), 2013 IEEE .
- [29] C. Zhong , “Capacity and Performance Analysis of Advanced Multiple Antenna Communication Systems” , Department of Electronic and Electrical Engineering, University College London, March 2010.
- [30] Friis, H.T. A note on a simple transmission formula. Proc. IRE, 1946
- [31] Rappaport, T.S. Wireless Communications: Principles and Practice 2/E, Prentice Hall, 2001.

REFERENCES

- [32] Y. Okumura, E. Ohmori, T. Kawano, and k. Fukuda Field strength and its variability in VHF and UHF land mobile radio service. Rev. Elec. Commun. Lab, 1968.
- [33] D. B. Green and M.S Obaidat, “An accurate line of sight propagation performance model for ad-hoc 802.11 wireless lan (WLAN) devices,” in IEEE International Conference on Communications 2002, New York, NY, Vol 5, pp 3424-3428, 28 April-2 May 2002.
- [34] J. Doble, Introduction to Radio Propagation for Fixed and Mobile Communications, Artech House, Boston 1996.
- [35] G. Foschini and M. Gans, “On limits of wireless communications in a fading environment when using multiple antennas,” Wireless Pers. Comm., vol. 6, no. 3, pp. 311-335, March 1998.
- [36] MATLAB - The Language of Technical Computing, [online] www.mathworks.com/products/matlab ,(Accessed on 20-8-15).