

## Journal Papers (\* indicate student authors)

1. Y. Ibdah\*, Y. Ding, "Path Loss Models for Low-Height Mobiles in Forest and Urban", *Journal of Wireless Personal Communications*, Springer, Vol. 92, Issue 2, pp. 455-465, Feb. 2016
2. Y. Ibdah\*, Y. Ding, "Mobile-to-Mobile Channel Measurements at 1.85 GHz in Suburban Environments," *IEEE Trans. Comm.*, vol. 63, no. 2, pp. 466475, Feb. 2015.
3. Y. Ding, L. Li\*, J.-K. Zhang, "Blind Transmission and Detection Designs with Unique Identification and Full Diversity for Noncoherent Two-Way Relay Networks", *IEEE Trans. Vehicular Tech.* Vol. 63, pp. 3137-3146, Sept. 2014.
4. H. Eghbali\*, S. Muhaidat, S. A. Hejazi, and Y. Ding "Relay Selection Strategies for Single-Carrier Frequency-Domain Equalization Multi-Relay Cooperative Networks", *IEEE Trans. Wireless Comm.*, Vol. 12, pp. 2034-2045, 2013. Citation 17 (scholargoogle.com).
5. Y. Ding, M. Uysal, "Achievable Data Rates and Rate Optimization for Frequency-Selective Fading Relay Channels with Imperfect Channel Estimation", *EURASIP Journal on Wireless Communications and Networking*, 2012.
6. L. Li\*, Y. Ding, J.-K. Zhang, and R. Zhang, "Blind Detection with Unique Identification in Two-Way Relay Channel", *IEEE Trans. Wireless Comm.*, Vol. 11, pp. 2640 - 2648, Jul. 2012.
7. Y. Ding, D. F. Parham, Z. Wang\*, and K. Lee\*, "Automatic Cycle Identification in Tidal Breathing Signals", *Journal of Bioengineering & Biomedical Science*, 2012
8. Y. Bi\* and Y. Ding, "Ergodic Channel Capacity of an Amplify-and-Forward Relay System at Low SNR in a Generic Noise Environment", *IEEE Trans. Signal Processing*, Vol. 60. pp. 2694-2700, May 2012.
9. Y. Ding, K. H. Kwon, and K. Lee\*, "Precoder Design for Amplify and Forward Relaying With Complex Field Network Coding", *IEEE Trans. Signal Processing*, Vol. 59, pp. 2988 - 2994, Jun. 2011
10. Y. Ding, M. Uysal, "Amplify-and-forward cooperative OFDM with multiple-relays: performance analysis and relay selection methods", *IEEE Trans. Wireless Comm.* Vol. 8, pp. 4963 - 4968, Oct. 2009. Citation 58 (scholargoogle.com)
11. Y. Ding, J.-K. Zhang and K. M. Wong, "Ergodic Channel Capacities for the Amplify-and-Forward Half-Duplex Cooperative Systems", *IEEE Trans. Information Theory*, Vol. 55, pp. 713-730, Feb. 2009. Citation 52 (scholargoogle.com).
12. Y. Ding, and J.-K. Zhang, and K. M. Wong, "Optimal Precoder for Amplify-and-Forward Half-Duplex Relay System", *IEEE Trans. Wireless Comm.* Vol. 7, pp. 2890-2895, Aug. 2008. Citation 27 (scholargoogle.com).
13. Y. Ding, J.-K. Zhang and K. M. Wong, "The amplify and forward half duplex cooperative system: pairwise error probability and precoder design". *IEEE Trans. Signal Processing*, Vol. 55, pp. 605-617, Feb. 2007. Citation 117 (scholargoogle.com).
14. Y. Ding, T. N. Davidson, Z-Q Luo, K. M. Wong, "Minimum BER Block Precoders for Zero-forcing Equalization," *IEEE Trans. Signal Processing*, vol. 51, pp. 2410-2423, Sept. 2003. Citation 182 (scholargoogle.com).

## Journal Papers Submitted

## Conference Papers

1. Y. Ibdah\*, Y. Ding, and Y.H. Ding "Shadowing in M2M Channels at 2100 and 700 MHz in Dense Scattering Environments", International Conference on Electronics, Communications and Networks (CECNET), Dec. 2014.
2. G. Bai\*, Y. Ding, M. B. Yildirim, Y. H. Ding, "Short-term Prediction Models for Wind Speed and Wind Power", International Conference on Systems and Informatics (ICSAI), November, 2014.
3. Y. Ding, D. F. Parham, G. Tchankwe\*, Y. H. Ding, "Automatic cycle identification in speaker's speech breathing signals", International Conference on Applied Mathematics, Modelling and Simulation (ICAMMS), 2014.
4. N. Wang\*, V. Aravinthan, and Y. Ding, "Feeder-level fault detection and classification with multiple sensors: a smart grid scenario", IEEE Workshop on Statistical Signal Processing (WSSP), June 2014.
5. L. Li\*, Y. Ibdah\*, Y. Ding, H. Eghbali\*, S. Muhaidat, and X. Ma, "Indoor Multi-wall Path Loss Model at 1.93 GHz," IEEE Military Communications Conference (MILCOM), Nov. 2013
6. Y. Bi\*, Y. Ding, and H. M. Kwon, "Achievable Rate for Amplify and Forward Relay System at Low SNR", International Conference on Computing, Networking and Communications (ICNC), 2012.
7. Y. Ibdah\*, Y. Ding, H. M. Kwon, K. Lee\*, "Simulations on the statistical properties for cascaded Rayleigh fading channel" IEEE Military Communications (MILCOM) 2011, Baltimore, MD, Nov 7-10, 2011.
8. K. Lee\*, H. M. Kwon, Y. Ding, Y. Ibdah\*, Z. Wang\*, "Noncooperative Distributed MMSE Relay Schemes under Jamming Environment and Node Geometry in Wireless Relay Networks" (Best Paper Award), *Tenth Annual Wireless Telecommunications Symposium (WTS*, New York City, New York, USA, April 13-15, 2011.
9. C. Li\*, D. F. Parham, Y. Ding, "Cycle Detection in Speech Breathing Signals", *3rd Annual ORNL Biomedical Science and Engineering Conference*, Knoxville, TN, 2011
10. Z.Wang\*, D. F. Parham, Y. Ding, "Identifying Cycles in Speech-Breathing Signals", The American Speech-Language-Hearing Association (ASHA), Nov. 2011.
11. Y. Ding, Z. Wang\*, D. F. Parham, and K. Lee\*, "Cycle Identification and Artifact Detection in Tidal Breathing Signal," *the 5th International Conference on Bioinformatics and Biomedical Engineering*, (iCBBE), Wuhan, China, 2011
12. K. Lee\*, H. M. Kwon, Y. Ding, Y. Ibdah\*, Z. Wang\*, and Y. Bi\*, "Node geometry and broadband jamming in noncooperative relay networks under received power constraint," IEEE Sarnoff Symposium 2011, Princeton, NJ, May 3-4, 2011.
13. Z. Wang\*, H. M. Kwon, Y. Ding, K. Lee\*, and Y. Ibdah\*, "Amplifying matrix design for distributed noncooperative SIMO wireless relay networks under jamming environment," IEEE Asia Modelling Symposium (AMS) 2011, Manila, Philippines, May 23-27, 2011.
14. Y. Ibdah\*, H. M. Kwon, Y. Ding, K. Lee\*, "Noncooperative AF schemes for wireless mobile networks under jamming environment," IEEE MILCOM 2011, Baltimore, MD, Nov 7-10, 2011.
15. Y. Ding, and H. M. Kwon, "Two-User Relay Transmission with Shorter Delay", *Proc. IEEE International Conference on Communication (ICC)*, 2010.
16. H. Wu\*, Y. Ding, and H. M. Kwon, "Phase Synchronization for Distributed Sensor Networks in Feedback Bit Errors", *Proc. IEEE International Conference on Wireless communications, Networking and Information Security (WCNIS)*, Beijing, China, 2010.
17. Y. Sagar\*, H.M. Kwon, and Y. Ding, Capacity of Modulo-Sum Simple Relay Network, *International Zurich Seminar on Communications*, Zurich, Switzerland, March 3-5, 2010.

18. Y. Ding and M. Uysal, "Optimum power loading for non-coherent frequency-selective relay channels", *Proc. IEEE International Military Communication Conference (MILCOM)*, Boston, MA., 2009.
19. Y. Ding and M. Uysal, "Multi-relay cooperative OFDM with amplify-and-forward relaying," (invited paper), *Proc. IEEE Radio and Wireless Symp. (RWS). San Diego, Jan. 2009*. Citation 5 (scholargoogle.com).
20. Y. Ding, J.-K. Zhang, and K. M. Wong, "Optimal precoder for Amplify-Forward Half-Duplex Cooperative System", *Proc. IEEE Int. Conf. Acoustics, Speech, Signal Processing*, 2007.
21. Y. Ding, J.-K. Zhang and K. M. Wong, "The Amplify-and-Forward Half-Duplex Cooperative System: Pairwise Error Probability and Pre-coder Design", *Proc. First IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing*, 2005.
22. Y. Ding, T. N. Davidson and K. M. Wong, "Orthogonal Block Code Design for Frequency-Selective Multiple Antenna Channels," in *Proc. IEEE Sensor Array and Multichannel Signal Processing Workshop*, June, 2004.
23. Y. Ding, T. N. Davidson and K. M. Wong, "On Improving the BER Performance of Rate-Adaptive Block Transceivers, with Applications to DMT," in *Proc. IEEE GLOBE Commun. Conf. (GLOBECOM)*, vol. 3, pp. 1654- 1658, 2003. Citation 9 (scholargoogle.com).
24. Y. Ding, T. N. Davidson, J.-K. Zhang, Z.-Q. Luo and K. M. Wong, "Minimum BER Block Precoders for Zero-forcing Equalization," in *Proc. Int. Conf. Acoustics, Speech, Signal Processing*, vol. 3, pp. 2261-2264, 2002.

#### Technical Reports

1. L. Li\*, Y. Ding, "Review of popular indoor path loss models for radio frequencies", Electrical Engineering and Computer Science, Wichita State University, Nov. 2012
2. G. Bai\*, Y. Ding, and M. Yildirim, "Near term wind speed and power predictions for wind turbines", Electrical Engineering and Computer Science, Wichita State University, Apr. 2012
3. Y. Bi\*, Y. Ding, "Derivation of the higher terms in the ergodic channel capacity of the AF relay system", Apr. 2011