

## Weifeng Su's Publications in Conference Proceedings

- [1] Xin Liu and Weifeng Su, "BER performance analysis of the optimum ML receiver for decode-and-forward cooperative protocol," to appear in *Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP'07)*, Honolulu, Hawaii, April 15-20, 2007.
- [2] R. Grover, Weifeng Su, and D. A. Pados, "PEP-bound rotation angle optimization of 8-transmit-antenna quasi-orthogonal space-time block codes," to appear in *Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP'07)*, Honolulu, Hawaii, April 15-20, 2007.
- [3] Xin Liu and Weifeng Su, "Optimum selection relaying protocols in cooperative wireless networks," in *Proceedings of IEEE Global Telecommunications Conference*, San Francisco, CA, Nov. 27 - Dec. 1, 2006.
- [4] A. S. Ibrahim, A. K. Sadek, Weifeng Su, and K. J. R. Liu, "Relay selection in multi-node cooperative communications: when to cooperate and whom to cooperate with?" in *Proceedings of IEEE Global Telecommunications Conference*, San Francisco, CA, Nov. 27 - Dec. 1, 2006.
- [5] T. Himsoon, Weifeng Su, and K. J. R. Liu, "Differential modulation for multi-node amplify-and-forward wireless relay networks," in *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, vol. 2, pp.1195-1200, Las Vegas, NV, April 3-6, 2006.
- [6] T. Himsoon, W. P. Siriwongpairat, Weifeng Su, and K. J. R. Liu, "Decode-and-forward differential modulation scheme with threshold-based decision combining," in *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, vol. 2, pp.1189-1194, Las Vegas, NV, April 3-6, 2006.
- [7] K. G. Seddik, A. K. Sadek, Weifeng Su, and K. J. R. Liu, "Outage analysis of multi-node amplify-and-forward relay networks," in *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, vol. 2, pp.1184-1188, Las Vegas, NV, April 3-6, 2006.
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- [9] W. P. Siriwongpairat, Weifeng Su, Z. Han, and K. J. R. Liu, "Employing cooperative diversity for performance enhancement in UWB communication systems," in *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, vol. 4, pp.1854-1859, Las Vegas, NV, April 3-6, 2006.
- [10] W. P. Siriwongpairat, Weifeng Su, and K. J. R. Liu, "Multiband UWB system performance with random-clustering multipath-rich fading channels," in *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, vol. 2, pp.1074-1079, Las Vegas, NV, April 3-6, 2006.

- [11] A. K. Sadek, Weifeng Su, and K. J. R. Liu, "Clustered cooperative communications in wireless networks," in *Proceedings of IEEE Global Telecommunications Conference (GLOBECOM'05)*, vol. 3, pp.1157-1161, St. Louis, MO, Nov. 28 - Dec. 2, 2005.
- [12] A. S. Ibrahim, A. K. Sadek, Weifeng Su, and K. J. R. Liu, "Cooperative communications with channel state information: when to cooperate?," in *Proceedings of IEEE Global Telecommunications Conference*, vol. 5, pp.3068-3072, St. Louis, MO, Nov. 28 - Dec. 2, 2005.
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- [14] W. P. Siriwongpairat, Weifeng Su, and K. J. R. Liu, "Characterizing performance of multiband UWB systems using Poisson cluster arriving fading paths," in *IEEE 6<sup>th</sup> Workshop on Signal Processing Advanced in Wireless Communications*, pp. 246-250, New York, NY, June 5-8, 2005.
- [15] A. K. Sadek, Weifeng Su, and K. J. R. Liu, "Eigen-selection approach for joint beamforming and space-frequency coding in MIMO-OFDM systems with spatial correlation feedback," in *IEEE 6<sup>th</sup> Workshop on Signal Processing Advanced in Wireless Communications*, pp.565-569, New York, NY, June 5-8, 2005.
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- [17] Weifeng Su, A. K. Sadek, and K. J. R. Liu, "SER performance analysis and optimum power allocation for decode-and-forward cooperation protocol in wireless networks," in *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC'05)*, vol. 2, pp.984-989, New Orleans, LA, March 13-17, 2005.
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