

LIST OF PUBLICATIONS

ENDER AYANOGLU

(SEPTEMBER 2009)

JOURNAL PUBLICATIONS

Communication Theory and Coding

1. (1) L. Azzam and E. Ayanoglu, "Reduced Complexity Sphere Decoding via a Reordered Lattice Representation," *IEEE Transactions on Communications*, Vol. 57, pp. 2564-2569, September 2009.
2. (2) L. Azzam and E. Ayanoglu, "Real-Valued Maximum Likelihood Decoder for Quasi-Orthogonal Space-Time Block Codes," *IEEE Transactions on Communications*, Vol. 57, pp. 1753-1764, June 2009.
3. (3) E. Sengul, H.-J. Park, and E. Ayanoglu, "Bit-Interleaved Coded Multiple Beamforming with Imperfect CSIT," *IEEE Transactions on Communications*, Vol. 57, pp. 1505-1513, May 2009.
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5. (5) E. Akay and E. Ayanoglu, "Achieving Full Frequency and Space Diversity in Wireless Systems via BICM, OFDM, STBC, and Viterbi Decoding," *IEEE Transactions on Communications*, Vol. 54, pp. 2164-2172, December 2006.
6. (6) B. A. Cetiner, E. Sengul, E. Akay, and E. Ayanoglu, "A MIMO System with Multifunctional Reconfigurable Antennas," *IEEE Antennas and Wireless Propagation Letters*, Vol. 5, pp. 463-466, December 2006.
7. (7) E. Sengul, E. Akay, and E. Ayanoglu, "Diversity Analysis of Single and Multiple Beamforming," *IEEE Transactions on Communications*, Vol. 54, pp. 990-993, June 2006.
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10. (10) E. Ayanoglu, P. Pancha, A. Reibman, and S. Talwar, "Forward Error Control for MPEG-2 Video Transport in a Wireless LAN," *ACM/Baltzer Mobile Networks and Applications Journal*, Vol. 1, pp. 235-244, December 1996.
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12. (12) E. Ayanoglu, C.-L. I, R. D. Gitlin, and J. E. Mazo, "Diversity Coding for Self-Healing and Fault-Tolerant Communication Networks," *IEEE Transactions on Communications*, Vol. 41, pp. 1677-1686, November 1993.
13. (13) E. Ayanoglu, "Robust and Fast Failure Detection and Prediction for Fault-Tolerant Communication Network," *Electronics Letters*, Vol. 28, pp. 940-941, May 1992.

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15. (15) E. Ayanoglu and R. M. Gray, "The Design of Joint Source and Channel Trellis Waveform Coders," *IEEE Transactions on Information Theory*, Vol. 33, pp. 855-865, November 1987.

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16. (1) I. Inan, F. Keceli, and E. Ayanoglu, "A Capacity Analysis Framework for the IEEE 802.11e Contention-based Infrastructure Basic Service Set," to be published, *IEEE Transactions on Communications*, Vol. 57, November 2009.
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21. (6) K. Y. Eng, M. Karol, M. Veeraraghavan, E. Ayanoglu, C. Woodworth, and R. A. Valenzuela, "A Wireless Broadband Ad-Hoc ATM Local-Area Network," *ACM/Baltzer Wireless Networks Journal*, Vol. 1, pp. 161–174, May 1995.
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PAPERS AND CONTRIBUTED CHAPTERS IN PAPER COLLECTIONS AND BOOKS

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34. (1) E. Ayanoglu, P. Pancha, A. Reibman, and S. Talwar, "Combined Source and Channel Coding for Wireless ATM LANs," in *Signal Processing in Telecommunications*, E. Biglieri and M. Luise (Eds), Springer, London, 1996.

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39. (6) E. Ayanoglu and N. Akar, "B-ISDN (Broadband Integrated Services Digital Network)," *Wiley Encyclopedia of Telecommunications*, J. Proakis (Ed.), Wiley, December 2002. (*Invited Contribution*)

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WORKSHOP PRESENTATIONS, INVITED TALKS, AND PANEL PARTICIPATIONS

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110. (1) H. J. Park and E. Ayanoglu, "Diversity Analysis of Bit-Interleaved Coded Multiple Beamforming," *2009 UCSD Information Theory and Applications Workshop*, La Jolla, CA, February 2008.

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