

BOOKS (5)

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8. X. Tang and Y. Hua, "Optimal design of non-regenerative MIMO wireless relays," *IEEE Transactions on Wireless Communications*, accepted and scheduled to appear in March 2007.
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14. L. Liu and H. Jafarkhani, "Space time trellis codes based on channel phase feedback," IEEE Transactions on Communications, in press.
15. G. Jakllari, S. V. Krishnamurthy, M. Faloutsos, and P. Krishnamurthy, "On broadcast with cooperative diversity in multi-hop wireless networks," IEEE Journal on Selected Areas of Communications, Special Issue on Cooperative Communications and Networks, in press.
16. N. W. Bikhazi and M. A. Jensen, "The relationship between antenna loss and superdirectivity in MIMO systems," to appear in IEEE Trans. Wireless Communications.
17. S. Wang, A. Abdi, J. Salo, H. El-Sallabi, J. Wallace, P. Vainikainen, and M. A. Jensen, "Time-varying MIMO channels: parametric statistical modeling and experimental results," to appear in IEEE Trans. Vehicular Technology.
18. J. W. Wallace, M. A. Jensen, A. Gummalla, and H. Lee, "Experimental characterization of the outdoor MIMO wireless channel temporal variation," to appear in IEEE Trans. Vehicular Technology.
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20. M. A. Jensen, M. D. Rice, and A. L. Anderson, "Unitary space-time coding for multi-antenna aeronautical telemetry transmission," to appear in IEEE Trans. Aerospace Electronic Systems.

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Wireless Communications and Networking Conference, WCNC 2006, Las Vegas, Nevada, April 2006.

3. Y. Nebat and S. Bhardwaj, "On the capacity of random wireless networks under fixed multi-path fading," 4th Intl. Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, Boston, Massachusetts, April 2006 (Best Student Paper Award).
4. Y. Nebat, "A lower bound for the achievable throughput in large random wireless networks under fixed multi-path fading," Second Workshop on Spatial Stochastic Models for Wireless Networks, Boston, Massachusetts, April 2006.
5. M. Amde, J. Marciano, R. Cruz, and K. Yun, "Code acquisition at low SINR in spread spectrum communications," in The Ninth International Symposium on Spread Spectrum Techniques and Applications, to appear in Proceedings of ISSSTA 2006, Manaus, Brazil, Aug 2006.
6. M. Carvalho and J.J. Garcia-Luna-Aceves, "Analytical modeling of ad hoc networks that utilize space-time coding," Proc. IEEE WiOpt 2006: 4th Intl. Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks, Boston, Massachusetts, April 3--7, 2006.
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8. R. Moraes, H. Sadjadpour, and J. J. Garcia-Luna-Aceves, "An upper bound for the capacity of distributed MIMO mobile ad hoc networks," Proc. IEEE ITS2006- 2006 International Telecommunications Symposium, Fortaleza-Ceara, Brazil, September 3--6, 2006.
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10. J.J. Garcia-Luna-Aceves, X. Wang, and H. Sadjadpour, "Medium access control for self-organizing, opportunistic MIMO systems," Asilomar 2006. Invited Paper.
11. M. Carvalho and J.J. Garcia-Luna-Aceves, "Modeling wireless ad hoc networks with directional antennas," Proc. IEEE Infocom 2006, Barcelona, Spain, 23--29 April, 2006.
12. T. Feng and S. Haykin, "Novel procedure for reliable detection in an unknown wireless environment," IEEE Conference on Radio and Wireless, San Diego, CA, January, 2006.
13. N. Costa and S. Haykin, "A novel wideband MIMO channel model and the wideband MIMO software defined radio," WiCOM 2006, Wuhan China, September 2006. Keynote Address.
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15. Z. Ye and Y. Hua, "On link layer policies of data forwarding over wireless relays," MILCOM, Atlantic City, NJ, Oct 2005.

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17. K. Hong and Y. Hua, "Throughput of large wireless networks on square, hexagonal and triangular grids," IEEE Workshop on Sensor Array and Multi-channel Processing, Waltham, MA, July 2006.
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26. M. A. Jensen, "Antenna design for mobile MIMO systems," Proceedings of Antenna 06 Nordic Antenna Symposium, pp. 17-22, Linköping, Sweden, 30 May-1 June, 2006. Invited Keynote Address.
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31. M. A. Jensen and B. Booth, "Optimal uncoupled impedance matching for coupled MIMO arrays," to appear in Proceedings of 2006 European Conference on Antennas and Propagation, Nice, France, Nov. 6-10, 2006.
32. A. Anderson, J. R. Zeidler, and M. A. Jensen, "Performance of transmit precoding in time-varying point-to-point and multi-user MIMO channels," to appear in Proceedings of the 2006 Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, Oct. 29-Nov. 1, 2006.
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34. G. Jakllari, S. V. Krishnamurthy, M. Faloutsos, P. Krishnamurthy, and O. Ercetin, "A framework for distributed spatio-temporal communications in mobile ad hoc networks," In IEEE INFOCOM 2006.
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36. E. Gelal, G. Jakllari, S.V. Krishnamurthy, and N. E. Young, "An integrated scheme for fully-directional neighbor discovery and topology management in mobile ad hoc networks," to appear In IEEE MASS 2006.
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43. J. Zheng and B. D. Rao, "Capacity analysis of correlated multiple antenna systems with finite rate feedback," in IEEE International Conference on Communications (ICC), June 2006.
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46. C. Peel and A. L. Swindlehurst, "Transport capacity bounds for multi-antenna wireless networks," in Proc. 63rd IEEE Vehicular Technology Conference, VTC 2006, Melbourne, Australia, May 7, 2006 - May 10, 2006.
47. P. Zhan, K. Yu, and A. L. Swindlehurst, "Wireless relay communications using an unmanned aerial vehicle," in Proc. 7th IEEE International Workshop on Signal Processing Advances for Wireless Communications, SPAWC 2006, Cannes, France, July 2, 2006 - July 5, 2006.
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53. H. Sui and J. R. Zeidler, "An explicit and unified error probability analysis of two detection schemes for differential unitary space-time modulation," in Conference Record of the IEEE Asilomar Conference on Circuits, Systems and Computers, pp. 1579-1583, Nov. 2005.

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56. J. Jootar, J. R. Zeidler, and J. G. Proakis, "On the performance of closed-loop transmit diversity with noisy channel estimates," in Proc. International Conference on Communications June 2006 (ICC'06).
57. H. Sui and J. R. Zeidler, "Demodulation and performance analysis of differential unitary space-time modulation in time-varying Rician channels," in Proceedings of the IEEE Vehicular Technology Conference, (Montreal, Canada), September 2006.
58. P. Casari, M. Levorato, and M. Zorzi, "On the implications of layered space-time multiuser detection on the design of MAC protocols for ad hoc networks," IEEE Personal, Indoor, and Mobile Radio Communications Conference (PIMRC), September, 2005.
59. P. Casari, M. Levorato, and M. Zorzi, "Some issues concerning MAC design in ad hoc networks with MIMO communications," Eighth International Symposium on Wireless Personal Multimedia Communications (WPMC), September, 2005.
60. F. Rossetto and M. Zorzi, "A space-time based approach to solving the gain asymmetry in MIMO ad hoc networks," Vehicular Technology Conference Spring (VTCspring), Melbourne, Australia, May 2006.
61. M. Levorato, S. Tomasin, P. Casari, and M. Zorzi, "Analysis of spatial multiplexing for cross-layer design of MIMO ad hoc networks," accepted for publication in IEEE Vehicular Technology Conference Spring, Melbourne, Australia, May 2006.
62. M. Levorato, S. Tomasin, P. Casari, and M. Zorzi, "An approximate approach for layered space-time multiuser detection performance and its application to MIMO ad hoc networks," IEEE International Conference on Communications, (ICC), Istanbul, Turkey, June 2006.
63. F. Rossetto and M. Zorzi, "On gain asymmetry and broadcast efficiency in MIMO ad hoc networks," International Conference on Communications (ICC), Istanbul, Turkey, June 2006.
64. P. Casari, M. Levorato, and M. Zorzi, "DSMA: An access method for MIMO ad hoc networks based on distributed scheduling," accepted for publication in ACM International Wireless Communications and Mobile Computing Conference (IWCMC), Vancouver, Canada, July 2006.
65. M. Levorato, P. Casari, and M. Zorzi, "On the performance of access strategies for MIMO ad hoc networks," accepted for publication IEEE GLOBECOM06, Nov. 2006.

MANUSCRIPTS SUBMITTED FOR PUBLICATION (28)

1. R. Moraes, H.R. Sadjadpour, and JJ Garcia-Luna-Aceves, "Ergodic capacity of MIMO MANETs with opportunistic cooperation," IEEE JSAC special issue on collaborative communications, under second round of review.
2. H. Sui and J. R. Zeidler, "A robust coded MIMO FH-CDMA transceiver for mobile ad hoc networks," submitted to IEEE Journal on Selected Areas of Communication, Special Issue on "Optimization of MIMO Transceivers for Realistic Communications Networks: Challenges and Opportunities."
3. G. Jakllari, S. V. Krishnamurthy, M. Faloutsos, P. Krishnamurthy, and O. Ercetin, "On broadcasting with cooperative diversity in multi-hop wireless networks," submitted to IEEE JSAC Special Issue on Cooperative Communications and Networking.
4. J. Zheng and B. D. Rao, "Analysis of vector quantizers using transformed codebook with application to feedback-based multiple antenna systems," submitted to IEEE Journal of Selected Areas in Communications, Special Issue on "Optimization of MIMO Transceivers for Realistic Communications Networks: Challenges and Opportunities."
5. I. Arasaratnam and S. Haykin, "Modified particle filtering for tracking MIMO wireless channels with impulsive noise," submitted to IEEE Journal on Selected Areas of Communication, Special Issue on "Optimization of MIMO Transceivers for Realistic Communications Networks: Challenges and Opportunities."
6. J. Jootar, J. R. Zeidler, and J. G. Proakis, "On the performance of closed-loop transmit diversity with noisy channel estimates," submitted to IEEE Transactions on Communications.
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8. L. Liu and H. Jafarkhani, "Successive transmit beamforming algorithms for multiple-antenna OFDM systems," submitted to IEEE Transactions on Wireless Communications.
9. S. Kittipiyakul and T. Javidi, "Optimal operating point for MIMO multiple-access channel with Bursty traffic," submitted to IEEE Trans. Wireless Communication.
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15. G. Jakllari, S. V. Krishnamurthy, M. Faloutsos, P. Krishnamurthy, and O. Ercetin, "A cross-layer framework for exploiting virtual MISO links in mobile ad hoc networks," submitted to IEEE Transactions on Mobile Computing.
16. G. Jakllari, W. Luo, and S. V. Krishnamurthy, "An integrated neighbor discovery and MAC protocol for ad hoc networks using directional antennas," submitted to IEEE Transactions on Wireless Communications.
17. A. S. Ling and L. Milstein, "Trade-off between diversity and channel estimation error in asynchronous MC-DSCDMA and MC-CDMA," submitted to IEEE Transactions on Communications.
18. B. Song, R. L. Cruz, and L. B. Milstein, "Weighted max-min fair scheduling with imperfect channel state information in MIMO broadcast networks," submitted to IEEE Transactions on Communications.
19. T. Srikanth, S. Manohar, A. Chockalingam, and L. B. Milstein, "Interference cancelling receivers for multicode MIMO in high data rate mobile ad-hoc networks," submitted to IEEE Transactions on Communications.
20. P. Amihood, E. Masry, L. B. Milstein, and J. Proakis, "Performance analysis of a pre-BLAST-DFE technique for MISO channels with decentralized receivers," submitted to IEEE Transactions on Communications.
21. D. Piazza and L. B. Milstein, "Analysis of multiuser diversity in time-varying channels," submitted to IEEE Transactions on Wireless Communications.
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