

LIST OF PUBLICATIONS

ERIK G. LARSSON

Book:

- [1] E. G. Larsson and P. Stoica, *Space-Time Block Coding for Wireless Communications*. Cambridge, UK: Cambridge University Press, May 2003. ISBN 0-521-82456-7. Chinese translation by Xi'an Jiaotong University Press, 2006, ISBN 7-5605-2175-4/TN. 391 citations in Google Scholar.

Chapter in Book:

- [1] E. G. Larsson, J. Li, and P. Stoica, "High-resolution nonparametric spectral analysis: theory and applications," in *High-resolution and robust signal processing* (Y. Hua, A. B. Gershman, and Q. Cheng, eds.), New York, NY: Marcel-Dekker, 2003. ISBN 0-8247-4752-6.

Journal Papers:

- [1] J. Lindblom, E. G. Larsson and E. Jorswieck, "Parameterization of the MISO IFC rate region: The case of partial channel state information," *IEEE Transactions on Wireless Communications*. To appear.
- [2] E. G. Larsson and D. Danev, "Accuracy comparison of LS and squared-range LS for source localization," *IEEE Transactions on Signal Processing*. To appear.
- [3] Z. Ma, P. Fan, E. G. Larsson and B. Honary, "Quasi-maximum-likelihood multiple-symbol differential detection for the time-varying Rayleigh fading channel," *IET Electronic Letters*, vol. 45, pp. 1127–1128, Oct. 2009.
- [4] M. N. Khormuji and E. G. Larsson, "Finite-SNR analysis and optimization of decode-and-forward relaying over slow fading channels," *IEEE Transactions on Vehicular Technology*, vol. 58, pp. 4292–4305, Oct. 2009.
- [5] J. Lindblom, E. Karipidis and E. G. Larsson, "Selfishness and altruism on the MISO interference channel: The case of partial transmitter CSI," *IEEE Communication Letters*, vol. 13, pp. 667–669, Sept. 2009.
- [6] E. G. Larsson, E. Jorswieck, J. Lindblom and R. Mochaourab, "Game theory and the flat fading Gaussian interference channel," *IEEE Signal Processing Magazine*, vol. 26, pp. 18–27, Sept. 2009.
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- [8] E. G. Larsson, "MIMO detection methods: How they work," *IEEE Signal Processing Magazine*, vol. 26, pp. 91–95, May 2009.
- [9] M. N. Khormuji and E. G. Larsson, "Cooperative transmission based on decode-and-forward relaying with partial repetition coding," *IEEE Transactions on Wireless Communications*, vol. 8, pp. 1716–1725, April 2009.

- [10] E. Axell, E. G. Larsson and D. Danev, "Capacity considerations for uncoordinated communication in geographical spectrum holes," *Physical Communication* (Elsevier), vol. 2, pp. 3–9, March 2009. Invited paper.
- [11] E. G. Larsson and M. Skoglund, "Cognitive radio in a frequency-planned environment: some basic limits," *IEEE Transactions on Wireless Communications*, vol. 7, pp. 4800–4806, Dec. 2008.
- [12] M. Skoglund and E. G. Larsson, "Optimal modulation for known interference," *IEEE Transactions on Communications*, vol. 56, pp. 1892–1899, Nov. 2008.
- [13] E. Jorswieck, E. G. Larsson and D. Danev, "Complete characterization of the Pareto boundary for the MISO interference channel," *IEEE Transactions on Signal Processing*, vol. 56, pp. 5292–5296, Oct. 2008.
- [14] M. N. Khormuji and E. G. Larsson, "Rate-optimized constellation rearrangement for the relay channel," *IEEE Communication Letters*, vol. 12, pp. 618–620, Sept. 2008.
- [15] E. G. Larsson and E. Jorswieck, "Competition versus cooperation on the MISO interference channel," *IEEE Journal on Selected Areas on Communications*, vol. 26, pp. 1059–1069, Sept. 2008.
- [16] E. G. Larsson and J. Jaldén, "Soft MIMO detection at fixed complexity via partial marginalization," *IEEE Transactions on Signal Processing*, vol. 56, pp. 3397–3407, Aug. 2008.
- [17] T. Kim, M. Bengtsson, E. G. Larsson and M. Skoglund, "Combining long-term and low-rate short-term channel state information over correlated MIMO channels," *IEEE Transactions on Wireless Communications*, vol. 7, pp. 2409–2414, July 2008.
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Conference Papers:

- [1] E. Karipidis, A. Gründinger, J. Lindblom and E. G. Larsson, "Pareto-optimal beamforming for the MISO interference channel with partial CSI," in *Proc. of IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)*, Dec. 2009. To appear.
- [2] E. Karipidis, E. G. Larsson and K. Holmberg, "Optimal scheduling and QoS power control for cognitive underlay networks," in *Proc. of IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)*, Dec. 2009. To appear.

- [3] J. Lindblom, E. Karipidis and E. G. Larsson, "Outage rate regions for the MISO IFC," in *Proc. of Asilomar Conference on Signals, Systems and Computers*, Nov. 2009. To appear.
- [4] M. Čirkić, D. Persson and E. G. Larsson, "Optimization of computational resource allocation for soft MIMO-detection using partial marginalization," in *Proc. of Asilomar Conference on Signals, Systems and Computers*, Nov. 2009. To appear.
- [5] E. Axell, E. G. Larsson and J.-Å. Larsson, "On the optimal K -term approximation of a sparse parameter vector MMSE estimate," in *Proc. of IEEE Workshop on Statistical Signal Processing*, (Cardiff, UK), Aug. 2009.
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- [7] D. Wu, E. G. Larsson and D. Liu, "Implementation aspects of fixed-complexity soft-output MIMO detection," in *Proc. of IEEE Vehicular Technology Conference (VTC)*, (Barcelona, Spain), Apr. 2009.
- [8] E. Axell and E. G. Larsson, "A Bayesian approach to spectrum sensing, denoising and anomaly detection," in *Proc. of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, April. 2009.
- [9] E. Jorswieck and E. G. Larsson, "Monotonic optimization framework for the MISO IFC," in *Proc. of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, April. 2009.
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¹Available at www.commsys.isy.liu.se/~egl/software/