

List of Publications

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Fully Refereed Publications

Conference/Workshop Papers

[C1] Boashash, B., Lovell, B., and White, L.B., "Time-Frequency Analysis and Pattern Recognition Using Singular Value Decomposition of the Wigner-Ville Distribution", *SPIE Advanced Algorithms and Architectures for Signal Processing*, v. 826, 1987.

[C2] White, L.B., and Boashash, B., "A Design Methodology for the Optimal Estimation of the Spectral Characteristics of Non-Stationary Random Processes", *Proc. IEEE Workshop on Spectrum Estimation and Modelling*, Minneapolis, USA, August 1988.

[C3] White, L.B., "Tomographic Radar Imaging and Multiple Pulse Synthesis", *Proc. RADARCON90*, Adelaide, April 1990, pp. 239-245.

[C4] Moran, W., Brown, G., and White, L.B., "A Discrete Version of Hudson's Theorem", *Proc. RADARCON90*, Adelaide, 1990, pp. 655-659.

[C5] White, L.B., "Time-Frequency Filtering from Convex Projections", *Proceedings of the SPIE*, v. 1348, 1990 (invited paper).

[C6] White, L.B., "Radar Signal Synthesis with Constraints - A Group Theoretic Approach", *Proceedings of the SPIE*, v. 1348, 1990 (invited paper).

[C7] Krishnamurthy, V., and White, L. B., "Blind Equalisation of FIR Channels with Markov Inputs", *Proc. IFAC Int. Conf. Adaptive Systems in Control and Signal Processing*, Grenoble, France, July 1992.

- [C8] White, L. B. and V. Krishnamurthy, “Adaptive Blind Equalisation of FIR Channels using Hidden Markov Models”, *Proc. IEEE International Conf. Communications*, Geneva, May 1993 (invited paper).
- [C9] White, L. B., S. Perreau and P. Duhamel, “Reduced Computation Blind Equalisation for FIR Channel input Markov Models”, *Proc. IEEE Int. Conf. Communications*, Seattle, USA, June 1995.
- [C10] Perreau, S., L. B. White and P. Duhamel, “An equaliser including a soft channel decoder”, *IEEE Signal Processing Advances for Wireless Communications*, Paris, April 1997 (invited).
- [C11] L. B. White and S. L. Perreau, “Tree Indexed Markov Processes and Long Range Dependency”, *Proc. 2nd Int. Conf. on Unsolved Problems of Noise and fluctuations (UPoN’99)*, eds. D. Abbott and L. Kish, Adelaide, Australia, 11-15th July 1999, Vol. 511, (American Institute of Physics, New York, 2000).
- [C12] J. Tsimbinos and L. B. White, “Error Propagation and Recovery in Decision feedback Equalisers for Second Order Nonlinear Channels”, *Proc. ISSPA99*, Brisbane, August 1999.
- [C13] G. A. Einicke, L. B. White and R. R. Bitmead, “A Fake Algebraic Riccati Technique for Tracking Superimposed Signals”, *Proc. 39th IEEE Conference on Decision and Control*, pp. 3887-3890, Sydney, December 2000.
- [C14] L. B. White *et al*, “Biological Data Compression”, in *Proc. 2000 Mathematics in Industry Study Group*, ed. John Hewitt, Adelaide, 2000.
- [C15] V. K. Nguyen and L. B. White, “Interference cancellation schemes for CDMA systems”, *Information, Decision and Control*, Adelaide, Feb. 2002.
- [C16] V. K. Nguyen and L. B. White, “Recursive receiver structures for general diversity channels with time-correlated flat fading”, *Proc. Aust. Communication Theory Workshop*, Canberra, Feb. 2002.
- [C17] E. Jaffrot, V. K. Nguyen, M. Soamiadana, L. B. White and I. Fijalkow, “Symbol by symbol reduced complexity highly selective OFDM channel estimation”, *Proc. EUSIPCO02*, Toulouse, September 2002.
- [C18] M. D. Anderson, S. Perreau and L. B. White, “Linear-Quadratic Power Control for CDMA Systems”, *Proc. First Workshop on the Internet, Telecommunications and Signal Processing*, Wollongong, December 2002.
- [C19] D. W. Bartel and L. B. White, “A Novel Equaliser - Application to Underwater Acoustic Communication”, *Proc. Australian Conference on Acoustics*, Adelaide, 2002.
- [C20] V. K. Nguyen and L. B. White, “Space-time trellis decoder for spatially correlated time-varying fading channels”, *Proc. Australian Communication Theory Workshop*, 2003.

[C21] F. Rice, L. B. White and A. Massie, “Spurious Free Dynamic Range for a Digitising Array”, *Proc. IEEE Int. Conference on Acoustics, Speech and Signal Processing*, Hong Kong, 2003.

[C22] Y. Darmani, L. B. White and M. J. Liebelt, “New Methods for Lost Voice Packet Recovery in Active Networks”, *Proc. IEEE Int. Conf. Networking*, Sydney 2003, pp. 57-62.

[C23] V. K. Nguyen and L. B. White, “Space-time coding for Spatially Correlated Rayleigh fading channels”, *Proc. Second Workshop on the Internet, Telecommunications and Signal Processing*, Gold Coast, December 2003.

Book Chapters

[BC1] White, L.B., “Estimation of the Instantaneous Frequency of a Noisy Signal, in *Time-Frequency Signal Analysis - Methods and Applications*, Ed. B. Boashash, Longman-Cheshire, 1990 (invited chapter).

[BC2] L. B. White, “Optimal Linear Filtering for the ISI Channel”, Proceedings of the first joint DSTO/AFOSR Workshop on Defence Applications on Signal Processing, Victor Harbor, South Australia, June 1997 (invited), Elsevier Press, 2001, Eds. W. Moran, D. Cochran and L. B. White.

Journal Papers

[J1] White, L.B., and Boashash, B., “On Estimating the Instantaneous Frequency of a Gaussian Random Process by use of the Wigner-Ville Distribution”, *IEEE Trans. Acoustics, Speech and Signal Processing*, v. 36, no. 3, 1988.

[J2] White, L.B., and Boashash, B., “Cross Analysis of Non-Stationary Random Processes”, *IEEE Trans. Information Theory*, v. 36, no. 4, pp. 830-835, 1990.

[J3] White, L.B., “On the Convergence of the Estimated Posterior Density Weighted Algorithm”, *IEEE Trans. Signal Processing*, v. 39, no.1 pp. 254-255, 1991.

[J4] White, L. B., “Transition Kernels for Bilinear Time-Frequency Signal Representations”, *IEEE Trans. Signal Processing*, v. 39, no.2, 1991.

[J5] White, L.B. “The Wideband Ambiguity Function and Altes’ Q-distribution : Constrained Synthesis and Time-Scale Filtering, *IEEE Trans. Information Theory*, Special issue on Wavelet transforms and Multiresolution analysis, v. 38, no. 2, pp. 886-892, March 1992.

[J6] White, L.B., “Cartesian Hidden Markov Models with Applications”, *IEEE Trans. Signal Processing*, v. 40 no. 6, pp. 1601-1604, 1992.

- [J7] White, L.B., and Anderson, B.D.O., “Stationary Discrete-time Covariance Factorisation using Newton-Raphson Iteration”, *Mathematics of Control, Signals and Systems*, v. 5, pp. 263-279, 1992.
- [J8] White, L.B., “Spectrum Estimation based on iterative Minimisation of the I-Divergence Measure”, *IEEE Trans. Signal Processing*, v. 40, no. 11, November 1992.
- [J9] White, L. B., “Exact Maximum Likelihood Estimation of the Parameters of a Harmonic Series using the EM Algorithm”, *IEEE Trans. Automatic Control*, Feb. 1993.
- [J10] White, L.B., “Likelihood Ratio Detection using a Finite Memory”, *IEEE Trans. Signal Processing*, Jan. 1993.
- [J11] White, L. B., “Fast Recursive Algorithms for Maximum Likelihood Estimation of the Parameters of a Periodic Signal”, *IEEE Trans. Signal Processing*, Dec. 1993.
- [J12] White, L. B., “Blind Equalisation of Constant Modulus Signals using an Adaptive Observer Approach”, *IEEE Trans. Communications*, Sept 1995.
- [J13] White, L. B., “Robust Likelihood Ratio Tests for Nonlinear Dynamic Systems”, *IEEE Trans. Signal Processing*, August 1995.
- [J14] Kenny, O. P. and White, L. B., “Statistical Performance of a TFD based Detection Scheme”, *Multidimensional Systems and Signal Processing*, Special issue on Recent Developments in Time-Frequency Analysis, v. 9, no. 4, October 1998, pp. 403-410.(invited paper)
- [J15] P. J. Sherman and L. B. White, “Improved Periodic Spectral Analysis with application to Diesel Vibration Data”, *Journal of the Acoustical Society of America*, v. 98, no. 6, Dec. 1995, pp. 3285-3301.
- [J16] G. D. Brushe and L. B. White, “Spatial Filtering of Superimposed Convolutional Coded Signals”, *IEEE Trans. Communications*, v. 45, no. 9, pp. 1144-1153, Sept 1997.
- [J17] G. D. Brushe, V. Krishnamurthy and L. B. White, “Joint On-line Reduced-State Viterbi Decoding and Parameter Estimation for Superimposed Convolutional Coded Signals”, *IEEE Trans. Communications*, v. 45, no. 12, pp. 1565-1574, 1997.
- [J18] G. D. Brushe, M. Wax, and L. B. White, “Determining the Constraint Length and Generating Polynomials of Rate 1/L Convolutional Coded Signals”, *IEEE Signal Processing Letters*, Aug. 1995.
- [J19] W. P. Malcolm and L. B. White, “Spatial Filtering for general Linear Gauss-Markov Processes”, *Signal Processing*, v. 69, no. 1, 1998.

- [J20] L. B. White, "A comparison between Optimal and Kalman Filtering for Hidden Markov Processes", *IEEE Signal Processing Letters*, v. 5, no. 5, pp. 124-126, May 1998.
- [J21] S. Perreau, L. B. White, and P. Duhamel, "A new decision feedback type equaliser incorporating fixed lag smoothing", *IEEE Trans. Signal Processing*, v. 48, no. 5, May 2000, pp. 1315-1328.
- [J22] Einicke, G. A. and White, L. B., "Robust Extended Kalman Filtering", *IEEE Trans. Signal Processing*, v. 47, no. 9, Sep. 1999, pp. 2596-2599.
- [J23] White, L. B., Mahoney, R. and Brushe, G. D., "Lumpable Hidden Markov Models : Model Reduction and Reduced Complexity Filtering", *IEEE Transactions on Automatic Control*, v. 45, no. 12, December 2000, pp. 2297-2306 .
- [J24] J. Tsimbinos and L. B. White, "Error Propagation and Recovery in Decision Feedback Equalizers for Nonlinear Channels", *IEEE Transactions on Communications*, v. 49, no. 2, Feb. 2001, pp. 239-242.
- [J25] S. L. Perreau and L. B. White, "Nonlinear iterative multiuser detection and equalisation for CDMA receivers in the presence of interchip interference", *Digital Signal Processing - A Review Journal*, v. 11, no. 2, April 2001, pp. 94-109.
- [J26] S. S. Lau, P. J. Sherman and L. B. White, "Asymptotic statistical properties of AR spectral estimators for processes with mixed spectra", *IEEE Transactions on Information Theory*, v. 48, no. 4, April 2002, pp. 909-917.
- [J27] L. B. White and R. J. Elliott, "Mixed MAP/MLSE for convolutional coded signals transmitted over a fading channel", *IEEE Trans. Signal Processing*, v.50, no. 5, May 2002, pp. 1205-1214.
- [J28] V. K. Nguyen and L. B. White, "Iterative multiuser detection with parameter estimation", *Digital Signal Processing : A Review Journal*, v. 12, April/July 2002, pp. 145-158.
- [J29] V. K. Nguyen, L. B. White, E. Jaffrot, M. Soamiadana and I. Fijalkow, "Processing techniques for diversity receivers with correlated flat fading channels", *IEEE J. Special Areas Communications*, Special issue on MIMO Systems and Applications : Part II, v. 21, no. 5, pp. 754-764, 2003.
- [J30] G. A. Einicke, L. B. White and R. R. Bitmead, "The use of Fake Algebraic Riccati Equations for Co-channel Demodulation", *IEEE Trans. Signal Processing*, v. 51, no. 9, September 2003, pp. 2288-2293.
- [J31] F. Rice, L. B. White and A. Massie, "Spurious Free Dynamic Range for a Digitising Array", *IEEE Trans. Signal Processing*, v. 51, no. 12, Dec. 2003, pp. 3036-3042.

[J32] M. D. Anderson, S. Perreau and L. B. White, “Linear Quadratic Power Control for CDMA Systems”, *J. Telecommunications and Information Technology*, December 2003, to appear.

[J33] V. K. Nguyen and L. B. White, “Joint Space-Time Trellis Decoding and Channel Estimation for Correlated Fading Channels”, *IEEE Signal Processing Letters*, accepted for publication.

Partially Refereed Publications

Conference Papers

[c1] Boashash, B., White, L.B., and Imberger, J., “Wigner-Ville Analysis of Non-Stationary Random Signals with Application to Turbulent Microstructure Signals”, *Proc. IEEE Int. Conf. on Acoustics, Speech and Signal Processing*, Tokyo, 1986, pp. 2323-2326.

[c2] White, L.B., and Boashash, B., “Pattern Classification in the Time-Frequency Domain”, *Proc. Conference on Computer Systems and Information Technology*, Brisbane, 1987, Institution of Engineers Press.

[c3] White, L.B., and Boashash, B., “Time-Frequency Analysis of Non-Stationary Signals”, *Proc. IRECON 87*, Sydney 1987, Institution of Engineers Press.

[c4] White, L.B., and Boashash, B., “Estimation of the Instantaneous Frequency of a Gaussian Random Signal using the Wigner-Ville Distribution”, *Signal Processing : Theories, Implementations and Applications*, 1987, pp.275-279, Ed. B. Boashash, Institution of Engineers Press.

[c5] White, L.B., and Boashash, B., “Time-Frequency Coherence - A Theoretical Basis for the Cross Spectral Analysis of Non-Stationary Signals”, *Signal Processing : Theories, Implementations and Applications*, 1987, pp. 18-23, Ed. B. Boashash, Institution of Engineers Press.

[c6] White, L.B., “A Fast Algorithm for Pattern Classification in the Time-Frequency Domain”, *Proc. Australian Symposium on Signal Processing and Applications*, Adelaide, 1989.

[c7] White, L.B., “Resolution Enhancement in Time-Frequency Signal Processing using Inverse Methods”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Glasgow, 1989.

[c8] Boashash, B., and White, L.B., “Instantaneous Frequency Estimation and Automatic Time-Varying Filtering”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, 1990, Albuquerque, USA, pp. 1221-1224.

[c9] White, L.B., “Minimum Divergence Spectrum Analysis”, *Proc. IASTED Int. Symp. Signal Processing and its Applications*, Gold Coast, 1990 pp. 809-812.

- [c10] White, L.B., “Maximum A Posteriori Probability Line Tracking for Non-Stationary Processes”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Toronto, Canada, 1991.
- [c11] White, L.B., “Signal Synthesis from Cohen’s Class of Bilinear Time-Frequency Distributions using Convex Projections”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Toronto, Canada, 1991.
- [c12] Hall, M. J. W., Fuss, I. G., and White, L. B., “Digital Communication and Quantum Phase Detection”, *IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Toronto, Canada, 1991.
- [c13] Fuss, I., and White, L. B., “Fourier Optics and Direction of Arrival Estimation”, *Proc. HF Technical Workshop*, Department of Defense, USA, 1991. (invited paper). Also available as SP-003-RN, Signal Processing Group, 1991.
- [c14] White, L. B., “Adaptive Frequency Tracking using Hidden Markov Models”, *Proc. IEEE/CRASys Workshop on Hidden Markov Models and Tracking*, Wirrina Cove, South Australia, Feb. 1992. (invited paper)
- [c15] Einicke, G., and White, L. B., “The use of H_∞ Filters for Linear Demodulation”, *IEEE International Symposium on Circuits and Systems*, San Diego USA, May 1992.
- [c16] White, L. B., “Recursive Adaptive Algorithms for Maximum Likelihood Estimation of the Parameters of a Periodic Signal”, *Proc. IASTED Int. Symp. Signal Processing and its Applications*, Gold Coast, August 1992.
- [c17] Einicke, G. A. and White, L. B., “Estimation of Frequency and Phase Modulated Signals using Fake Algebraic Riccati Techniques”, *Proc. IASTED Int. Symp. Signal Processing and its Applications*, Gold Coast, August 1992.
- [c18] White, L. B. and J. D. Ross, “Adaptive Demodulation of Phase Modulated Signals using Hidden Markov Models”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Minneapolis, 1993.
- [c19] Sherman, P. J., White, L. B., and Bitmead, R. R., “On AR Representations of Cyclo-stationary Processes”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Minneapolis, 1993, pp. 260-263.
- [c20] G. A. Einicke, and L. B. White, “A Class of Non-linear Filters for Periodic Signals”, *Proc. IEEE Int. Symp. Circuits Systems*, Chicago, 1993.
- [c21] P. J. Sherman and L. B. White, “Periodic spectral analysis of diesel vibration data”, *Proc. 12th Int. Conf. on Modal Analysis*, Honolulu USA, Jan 1994, pp. 1461-67.

- [c22] White, L.B., and Sherman, P. J., “Period uncertainty in periodic spectral analysis of processes associated with periodic phenomena”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Adelaide, 1994.
- [c23] Einicke, G. A., and White, L. B., “The extended H_∞ filter - A robust EKF”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Adelaide, 1994.
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- [c25] P. L. Trudinger and L. B. White, “Direction of arrival estimation with Markov signal sources”, *Proc. 2nd Int. Symp. DSP for Communications Systems*, Adelaide, Australia, 1994.
- [c26] O. P. Kenny and L. B. White, “Robust Detection of Signal Classes”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Detroit, USA, May 1995, pp. 3131-3134.
- [c27] J. M. Spanjaard, and L. B. White, “Adaptive Period Estimation of a Class of Periodic Random Processes”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Detroit, USA, May 1995.
- [c28] G. D. Brushe and L. B. White, “Joint Parameter Estimation and Demodulation of Superimposed Convolutional Coded Signals”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Detroit, USA, May 1995.
- [c29] White, L. B, “Adaptive Smoothing for Multiscale Markov Modulated Poisson Processes with Application to Analysis of Network Event Data”, *IEEE Workshop on Statistical and Array Signal Processing*, Corfu, Greece, 1996 - accepted for publication, but not published due to late submission.
- [c30] S. Perreau, L. B. White, and P. Duhamel, “Reduced computation of hidden Markov models applied for the equalisation of polyphase channels”, *Proc. IEEE Int. Workshop on Statistical Signal and Array Processing*, Corfu, 1996.
- [c31] J. Spanjaard, A. Connolly, F. Bruzzoni and L. B. White, “Spectrum Estimation of variable speed rotating machinery at a Hot Strip Mill”, *Proc. Control 95*, Melbourne, October 1995.
- [c32] P. J. Sherman, L. B. White, J. M. Spanjaard and R. R. Bitmead, “Asymptotic statistics of AR spectral estimators for processes containing mixed spectrum”, *IEEE Workshop on Statistical and Array Signal Processing*, Corfu, Greece, 1996.

- [c33] J. Spanjaard, L. B. White, P. J. Sherman, and S. Lau, “Periodic Autoregressive Time-Frequency Analysis for Monitoring of Rotating Machinery with variable Period”, *Proc. IEEE International Symposium on Time-Frequency and Time-Scale*, Paris, 1996.
- [c34] D. Vakman, L. Cohen and L. B. White, “The Instantaneous Spectral Band”, *Proc. IEEE Int. Symp. Time-Frequency and Time-Scale*, Philadelphia, USA, 1994.
- [c35] G. A. Einicke and L. B. White, “Robust Nonlinear Equalisation”, *Proc. ISSPA96*, Gold Coast, Aug. 1996.
- [c36] G. A. Einicke and L. B. White, “Performance comparison of H_∞ and Kalman filters”, *Proc. ISSPA96*, Gold Coast, Aug. 1996.
- [c37] G. A. Einicke and L. B. White, “Adaptive fixed interval and fixed lag smoothers for improving the frequency demodulation of speech”, *Proc. ISSPA96, Gold Coast*, Aug. 1996.
- [c38] G. D. Brushe, W. P. Malcolm and L. B. White, “A new method for estimating the amplitude distribution of signals”, *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing*, Munich May 1997 pp 3801-3804.
- [c39] Einicke, G. A., and White, L. B., “Robust Model Based Methods for Speech Enhancement”, *Proc. IEEE Region 10 Conference*, Brisbane, December 1997.
- [c40] White, L. B., Brushe, G. D., and Mahoney, R., “Suboptimal Filtering for large Hidden Markov processes via aggregation”, *Proc. EMAC98*, Adelaide, July 1998.
- [c41] McGinty, N. C., and L. B. White, “Incorporating *a priori* error statistics of decision directed symbols for Kalman filtering”, *Proc. EMAC98*, Adelaide, July 1998.
- [c42] White, L. B., “An adaptive whitening matched filter/equaliser for the ISI channel via recursive Kullback-Leibler distance minimisation”, *IEEE Workshop on Statistical Signal and Array Processing*, Portland OR, Sept. 1998.
- [c43] Perreau, S. L., and White, L. B., “Channel estimation and symbol detection for multiuser CDMA receivers using HMMS”, *IEEE Workshop on Statistical Signal and Array Processing*, Portland OR, Sept. 1998, pp. 272-275.
- [c44] V. G. Rose and L. B. White, “Robust decision feedback equalisation using error propagation detection”, *IEEE Information, Decision and Control*, Adelaide, Feb. 1999.
- [c45] G. Parker and L. B. White, “Sinusoid detection using a sequential test”, *IEEE Information, Decision and Control*, Adelaide, Feb. 1999.

- [c46] L. B. White and P. J. Sherman, “Detection of tones in coloured noise using a family of autoregressive spectrum estimators”, *IEEE Information, Decision and Control*, Adelaide, Feb. 1999.
- [c47] D. Huang and L. B. White, “Signal Recovery and Amplitude-Phase Tracking for Wireless Communications”, *Proc. IEEE Signal Processing Advances for Wireless Communications*, Baltimore MD, 1999.
- [c48] S. L. Perreau and L. B. White, “Channel estimation and symbol detection for space-time codes in mobility conditions”, *IZS2000*, Zurich, Feb., 2000.
- [c49] L. B. White, “Internet Transport Layer System Identification”, *Proc. IEEE Statistical Signal Processing Workshop*, Singapore, August 2001.
- [c50] L. B. White and R. J. Elliott, “Mixed MAP/MLSE for convolutional coded signals transmitted over a fading channel”, *Proc. IEEE Statistical Signal Processing Workshop*, Singapore, August 2001.
- [c51] L. B. White, “System Identification and Optimal Congestion Control for TCP”, *Asian Control Conference*, November 2002, (invited).
- [c52] Q. Fu and L. B. White, “The impact of background traffic on traffic performance over indirect and direct routing”, *Proc. IEEE Int. Conf. on Communications Systems*, Singapore, Nov. 2002.
- [c53] S. Perreau, M. D. Anderson and L. B. White, “Adaptive Power Control for CDMA Systems using linear quadratic Gaussian control”, *Proc. 36th Asilomar Conference on Signals, Systems and Computers*, vol. 1, pp. 87-91, 2002 (invited paper).
- [c54] Y. Darmani, L. B. White and M. J. Liebelt, “A New Voice Packing Scheme for VOIP to Recover Lost Packets using Active Networks”, *Proc. International Symposium on Telecommunications*, Iran, August 2003.
- [c55] P. Chapman, M. Sorrel, L. B. White and S.-L. Hew, “Smart Pricing for Advanced Wireless Networks”, *Proc. Smart Internet CRC Annual Conference*, Sydney, Sept. 2003, pp. 73-77.
- [c56] L. B. White, “Code Design for MIMO Systems with Temporal Correlation”, *SPIE Fluctuations and Noise 2004, Conference on Noise in Communications*, vol. 5473, to appear.

Papers in review/revision and preparation

Y. Darmani, L. B. White and M. Liebelt, “Two novel voice packing schemes for VOIP to recover lost packets using active networks”, submitted to *IEEE Trans. Signal Processing*, Dec. 2003.

L. B. White, “MMSE Precoder Design for Diversity Systems with Temporal Correlation”, *IEEE Trans. Signal Processing*, in review, submitted Jan. 2004.

L. B. White, “A Comparison of CP-FSK Demodulators”, *IEEE Transactions on Signal Processing*, in review, submitted Jan. 2004.

V. K. Nguyen and L. B. White, “Convergence behaviour of the PIC Detector : A neural network approach”, submitted to *IEEE Signal Processing Letters*, submitted Jan. 2004.

S.-L. Hew and L. B. White, “Integrated call admission control and pricing in multiservice networks with price-effected arrival, retrial and substitution”, submitted to *IEEE VTC*, Sept. 2004.

J. Sudarev and L. B. White, “802.11 wireless network extended service set model”, submitted to Int. Workshop on Wireless ad-hoc Networks, Finland, May 2004.

L. B. White, “New Policy Evaluation Algorithms for Markov Decision Processes with Quasi Birth-Death Structure”, in preparation.

L. B. White and V.-S Wong, “Design of whitening matched filters”, in preparation.

V.-S Wong and L. B. White, “Robust filter design using Nehari’s theorem”, in preparation.

C. -Y, Chang and L. B. White, “An efficient method for calculating the stationary distribution of a QBD process using convex projections”, in preparation.

P. S. Ray and L. B. White, “MIMO Radar Target Tracking Model”, in preparation.

L. B. White and P. S. Ray, “Optimal MMSE Waveform Design for MIMO Tracking Radars”, in preparation.

S. Perreau, L. B. White and P. Duhamel, “A reduced computation multichannel adaptive equaliser based on HMM”, *IEEE Trans. Communications*, in review.