

References

1. K. Abed-Meraim, S. Attallah, A. Chkeif, and Y. Hua. Orthogonal Oja algorithm. *IEEE Signal Processing Letters*, 7(5):116–119, May 2000.
2. K. Abed-Meraim, J.-F. Cardoso, A. Gorokhov, P. Loubaton, and É. Moulines. On subspace methods for blind identification of single-input multiple-output FIR systems. *IEEE Trans. on Signal Processing*, 45(1):42–55, January 1997.
3. K. Abed-Meraim, A. Chkief, and Y. Hua. Fast orthonormal PAST algorithm. *IEEE Signal Processing Letters*, 7(3):60–62, March 2000.
4. K. Abed-Meraim, P. Duhamel, D. Gesbert, P. Loubaton, S. Mayrargue, É. Moulines, and D.T.M. Slock. Prediction error methods for time-domain blind identification of multichannel FIR filters. In *Proc. IEEE ICASSP*, pages 1968–1971 vol.3, Detroit, MI, 1995.
5. K. Abed-Meraim and Y. Hua. A least-squares approach to joint Schur decomposition. In *Proc. IEEE ICASSP*, pages 2541–2544, 1998.
6. K. Abed-Meraim, P. Loubaton, and É. Moulines. A subspace algorithm for certain blind identification problems. *IEEE Trans. Information Theory*, 43(2):499–511, February 1997.
7. K. Abed-Meraim, É. Moulines, and P. Loubaton. Prediction error method for second-order blind identification. *IEEE Trans. Signal Processing*, 45:694–705, March 1997.
8. U.R. Abeyratne, A.P. Petropulu, and J.M. Reid. Higher order spectra based deconvolution of ultrasound images. *IEEE Trans. Ultrasonics, Ferroelectrics and Frequency Control*, 42(6):1064–1075, November 1995.
9. M. Adachi, K. Aihara, and A. Cichocki. Separation of mixed patterns by a chaotic neural network. In *International Symposium on Nonlinear Theory and its Applications - NOLTA '96, Proceedings, Research Society on NTA, IEICE, Japan*, pages 93–96, Oct. 1996.

10. T. Adali, M.K. Sonmez, and K. Patel. On the dynamics of the LRE algorithm: a distribution learning approach to adaptive equalization. In *Proc. IEEE ICASSP*, pages 929–932 vol.2, Detroit, MI, 1995.
11. S. Affes, S. Gazor, and Y. Grenier. A subarray manifold revealing projection for partially blind identification and beamforming. *IEEE Signal Processing Letters*, 3(6):187–189, June 1996.
12. K.H. Afkhamie and Z.-Q. Luo. Blind equalization using second-order statistics. In *Proc. IEEE ICASSP*, pages 1053–1056 vol.2, Detroit, MI, 1995.
13. B. Agee, S. Schell, and W. Gardner. Spectral self-coherence restoral: A new approach to blind adaptive signal extraction using antenna arrays. *Proc. IEEE*, 78:753–767, April 1990.
14. B.G. Agee. The least-squares CMA: A new technique for rapid correction of constant modulus signals. In *Proc. IEEE ICASSP*, pages 953–956, Tokyo, 1986.
15. B.G. Agee, S.V. Schell, and W.A. Gardner. Spectral self-coherence restoral: A new approach to blind adaptive signal extraction using antenna arrays. *Proc. IEEE*, 78(4):753–767, April 1990.
16. T. Akuzawa and N. Murata. Multiplicative nonholonomic Newton-like algorithm. *Chaos, Solitons and Fractals*, 12(2):785–781, 2001.
17. M.J. Al-Kindi and J. Dunlop. Improved adaptive noise cancellation in the presence of signal leakage on the noise reference channel. *Signal Processing*, 17:241–250, 1989.
18. L. B. Almeida and F. M. Silva. Adaptive decorrelation. *Artificial Neural Networks (Elsevier)*, 2:149–156, 1992.
19. S. Amari. Theory of adaptive pattern classifiers. *IEEE Trans. on Electrical Comput.*, 16(3):299–307, 1967.
20. S. Amari. Neural theory of association and concept formation. *Biological Cybernetics*, 26:175–185, 1977.
21. S. Amari. *Differential Geometrical Methods of Statistics, Springer Lectures Notes in Statistics*. Heidelberg, Springer Verlag., 1985.
22. S. Amari. Differential geometry of a parametric family of invertible linear systems Riemannian metric, dual affine connections and divergence. *Mathematical Systems Theory*, 20:53–82, 1987.
23. S. Amari. Mathematical theory of neural learning. *New Generation of Computing*, 8:135–143, 1991.
24. S. Amari. Super-efficiency in blind source separation. *IEEE Trans. on Signal Processing*, 1997.
25. S. Amari. Natural gradient works efficiently in learning. *Neural Computation*, 10:271–276, 1998.
26. S. Amari. Natural gradient learning for over- and under-complete bases in ICA. *Neural Computation*, 11(8):1875–1883, November 1999.
27. S. Amari. Estimating function of independent component analysis for temporally correlated signals. *Neural Computation*, 12(9):2083–2107, September 2000.
28. S. Amari and J.-F. Cardoso. Blind source separation — semi-parametric statistical approach. *IEEE Trans. on Signal Processing*, 45(11):2692–2700, Dec. 1997.

29. S. Amari, T.-P. Chen, and A. Cichocki. Stability analysis of adaptive blind source separation. *Neural Networks*, 10(8):1345–1351, 1997.
30. S. Amari, T.-P. Chen, and A. Cichocki. Non-holonomic constraints in learning algorithms for blind source separation. *Neural Computation*, 12:1463–1484, 2000.
31. S. Amari and A. Cichocki. Adaptive blind signal processing - neural network approaches. *Proceedings IEEE*, 86:1186–1187, 1998.
32. S. Amari, A. Cichocki, and H.H. Yang. Recurrent neural networks for blind separation of sources. In *in Proc. Int. Symposium Nonlinear Theory and its Applications NOLTA-95 Las Vegas*, volume 1, pages 37–42, Dec. 1995.
33. S. Amari, A. Cichocki, and H.H. Yang. A new learning algorithm for blind signal separation. In Michakel C. Mozer David S. Touretzky and Michael E. Hasselmo, editors, *Advances in Neural Information Processing Systems 1995*, volume 8, pages 757–763. MIT Press: Cambridge, MA, 1996.
34. S. Amari, A. Cichocki, and H.H. Yang. *Unsupervised Adaptive Filtering*, chapter Blind Signal Separation and Extraction - Neural and Information Theoretic Approaches. John Wiley, 1999.
35. S. Amari and S.C. Douglas. Why natural gradient. In *Proc. IEEE International Conference Acoustics, Speech, Signal Processing*, volume II, pages 1213–1216, Seattle, WA, May 1998.
36. S. Amari, S.C. Douglas, and A. Cichocki. Multichannel blind deconvolution and source separation using the natural gradient. In *submitted to IEEE Trans. Signal Processing*, September 1997.
37. S. Amari, S.C. Douglas, and A. Cichocki. Information geometry of blind source deconvolution. In *presented at Mathematical Theory of Networks and Systems*, Padova, Italy, July 1998.
38. S. Amari, S.C. Douglas, A. Cichocki, and H.H. Yang. Multichannel blind deconvolution and equalization using the natural gradient. In *Proc. IEEE Workshop on Signal Processing Advances in Wireless Communications*, pages 101–104, Paris, France, April 1997.
39. S. Amari, S.C. Douglas, A. Cichocki, and H.H. Yang. Novel on-line adaptive learning algorithms for blind deconvolution using the natural gradient approach. In *Proc. 11th IFAC Symposium on System Identification*, volume 3, pages 1057–1062, Kitakyushu City, Japan, July 1997.
40. S. Amari and M. Kawanabe. Information geometry of estimating functions in semiparametric statistical models. *Bernoulli*, 3(1):29–54, 1997.
41. S. Amari and M. Kawanabe. Estimating functions in semiparametric statistical models. In I. V. Basawa, V. Godambe, and R. Taylor, editors, *Estimating Functions*, volume 32 of *Monograph Series*, pages 65–81. IMS, 1998.
42. S. Amari and H. Nagaoka. *Methods of Information Geometry*. AMS and Oxford University Press, 1999.
43. K. Anand, G. Mathew, and V.U. Reddy. Blind separation of multiple co-channel BPSK signals arriving at an antenna array. *IEEE Signal Processing Letters*, 2(9):176–178, September 1995.
44. S. Andersson, M. Millnert, M. Viberg, and B. Wahlberg. An adaptive array for mobile communication systems. *IEEE Trans. on Veh. Tec.*, 40(1):230–236, 1991.

61. U.-M. Bae, T.-W. Lee, and S.-Y. Lee. Blind signal separation in teleconferencing using the ICA mixture model. *Electronic Letters*, 37(7):680–682, 2000.
62. Z. Bai, J. Demmel, J. Dongarra, A. Ruhe, and H. van der Vorst (editors). *Templates for the Solution of Algebraic Eigenvalue Problems: A Practical Guide*. SIAM, Philadelphia, 2000.
63. P. Baldi and K. Hornik. Neural networks and principal component analysis: Learning from examples without local minima. *Neural Networks*, 2:53–58, 1989.
64. S. Bannour and M.R. Azimi-Sadjadi. Principal component extraction using recursive least squares learning. *IEEE Tran. on Neural Networks*, 6:456–469, 1995.
65. Y. Bar-Ness and N. Sezgin. Adaptive multiuser bootstrapped decorrelating CDMA detector for one-shot asynchronous unknown channels. In *Proc. of the 1995 IEEE Int. Conference on Acoustics, Speech, and Signal Processing*, volume 3, pages 1733–1736, Detroit, Michigan USA, May 9–12 1995.
66. S. Barnett. *Matrices - Methods and Applications*. Clarendon Press, Oxford, 1990.
67. A. K. Barros and A. Cichocki. Robust batch algorithm for sequential blind extraction of noisy biomedical signals. In *Proc. Symposium on Signal Processing and its Applications (ISSPA'99)*, pages 363–366, Brisbane, Australia, 1999.
68. A. K. Barros and A. Cichocki. Extraction of specific signals with temporal structure. *Neural Computation*, 13(9):1995–2000, September 2001.
69. A.K. Barros, H. Kawahara, A. Cichocki, S. Kojita, T. Rutkowski, M. Kawamoto, and N. Ohnishi. Enhancement of a speech signal embedded in noisy environment using two microphones. In *Proceedings of the Second International Workshop on ICA and BSS, ICA'2000*, pages 423–428, Helsinki, Finland, 19-22 June 2000.
70. J.R. Barry and A. Batra. A multidimensional phase-locked loop for blind equalization of multi-input multi-output channels. In *Proc. IEEE Int. Conference Commun.*, pages 1307–1312 vol.3, Dallas, TX, 1996.
71. M. Bartlett. *Face Image Analysis by Unsupervised Learning*, volume 612. Kluwer International Series of Engineering and Computer Science, Boston, 2001.
72. R.H.T. Bates, Hong Jiang, and B.L.K. Davey. Multidimensional system identification through blind deconvolution. *Multidimensional Systems and Signal Processing*, 1(2):127–142, June 1990.
73. R.H.T. Bates and R.G. Lane. Automatic deconvolution and phase retrieval. *Proc. SPIE*, 828:158–164, 1987.
74. R.H.T. Bates and R.G. Lane. Deblurring should now be automatic. *Scanning Microscopy*, suppl.(2):149–156, 1988.
75. R.H.T. Bates, B.K. Quek, and C.R. Parker. Some implications of zero sheets for blind deconvolution and phase retrieval. *Journal of the Optical Society of America A (Optics and Image Science)*, 7(3):468–479, March 1990.
76. S. Becker. Unsupervised learning procedures for neural networks. *Int. Journal of Neural Systems*, 2:17–33, 1991.
77. Th. Beelen and P. Van Dooren. An improved algorithm for the computation of Kronecker's canonical form of a singular pencil. *Lin. Alg. Appl.*, 105:9–65, 1988.
78. A.J. Bell and T.J. Sejnowski. Blind separation and blind deconvolution: an information-theoretic approach. In *Proc. IEEE ICASSP*, pages 3415–3418 vol.5, Detroit, MI, 1995. IEEE.

79. A.J. Bell and T.J. Sejnowski. An information maximization approach to blind separation and blind deconvolution. *Neural Computation*, 7, no. 6:1129–1159, Nov 1995.
80. A.J. Bell and T.J. Sejnowski. A non-linear information maximization approach that performs blind separation. In *Advances in Neural Information Processing Systems 7*, pages 467–474. MIT Press, Cambridge, Mass, 1995.
81. A.J. Bell and T.J. Sejnowski. Learning the higher-order structure of a natural sound. *Network: Computation in Neural Systems*, 7:261–266, 1996.
82. S. Bellini. Bussgang techniques for blind equalization. In *Proc. of IEEE Global Telecommunications Conference*, pages 1634–1640, Houston, TX, 1986.
83. S. Bellini. Blind equalization. *Alta Frequenza*, 57(7):445–450, September 1988.
84. S. Bellini. Blind equalization and deconvolution. *Proc. SPIE*, 1565:88–101, 1991.
85. S. Bellini and F. Rocca. Asymptotically efficient blind deconvolution. *Signal Processing*, 20(3):193–209, July 1990.
86. A. Belouchrani, K. Abed-Meraim, J.-F. Cardoso, and É. Moulines. A blind source separation technique using second-order statistics. *IEEE Trans. Signal Processing*, 45(2):434–444, February 1997.
87. A. Belouchrani and M.G. Amin. A new approach for blind source separation using time-frequency distributions. *Proc. SPIE*, 2846:193–203, 1996.
88. A. Belouchrani, M.G. Amin, and K. Abed-Meraim. Direction finding in correlated noise fields based on joint block-diagonalization of spatio-temporal correlation matrices. *IEEE Signal Processing Letters*, 4(9), September 1997.
89. A. Belouchrani and J.-F. Cardoso. Maximum likelihood source separation for discrete sources. In *Signal Processing VII: Theories and Applications (Proc. of the EUSIPCO-94)*, pages 768–771, Edinburgh, Scotland, Sept. 13-16 1994. Elsevier.
90. A. Belouchrani and A. Cichocki. Robust whitening procedure in blind source separation context. *Electronics Letters*, 36(24):2050–2053, 2000.
91. A. Belouchrani, A. Cichocki, and K. Abed-Meraim. A blind identification and separation technique via multi-layer neural networks. In S. Amari, L. Xu, L.-W. Chan, I. King, and K.-S. Leung, editors, *Progress in Neural Information Processing. Proceedings of the International Conference on Neural Information Processing*, pages 1195–1200 vol.2, Hong Kong, 1996. Springer-Verlag.
92. A. Belouchrani, K. K. Abed-Meraim, J.-F. Cardoso, and É. Moulines. Second-order blind separation of correlated sources. In *Proc. Int. Conference on Digital Sig. Processing*, pages 346–351, Cyprus, 1993.
93. J. Benesty and P. Duhamel. A fast constant modulus adaptive algorithm. In L. Torres, E. Masgrau, and M.A. Lagunas, editors, *Signal Processing V. Theories and Applications. Proceedings of EUSIPCO-90, Fifth European Signal Processing Conference*, pages 241–244 vol.1, Barcelona, Spain, 18-21 Sept. 1990, 1990. Elsevier.
94. J. Benesty and P. Duhamel. Fast constant modulus adaptive algorithm. *IEE Proceedings F (Radar and Signal Processing)*, 138(4):379–387, August 1991.
95. S.E. Bensley and B. Aazhang. Subspace-based channel estimation for code division multiple access communication systems. *IEEE Tran. Communication.*, 44(8):1009–1020, August 1996.
96. A. Benveniste and M. Goursat. Blind equalizers. *IEEE Trans. Communications*, 32(8):871–883, 1984.

115. D.H. Brooks and C.L. Nikias. Cross-bicepstrum and cross-tricepstrum approaches to multichannel deconvolution. In J.L. Lacoume, editor, *Higher Order Statistics. Proceedings of the International Signal Processing Workshop*, pages 141–144, Chamrousse, France, 1992. Elsevier.
116. D.H. Brooks and C.L. Nikias. Multichannel adaptive blind deconvolution using the complex cepstrum of higher order cross-spectra. *IEEE Trans. Signal Processing*, 41(9):2928–2934, September 1993.
117. D.H. Brooks and A.P. Petropulu. Non-iterative blind deconvolution of colored or deterministic signals using higher order cepstra and group delay. In *IEEE SP Workshop on Stat. Signal Array Processing*, pages 132–135, Victoria, BC, 1992.
118. S.R. Brooks, editor. *Mathematics in Remote Sensing*, Danbury, UK, 1989. Clarendon Press.
119. R.G. Brown and P.Y.C. Hwang. *Introduction to Random Signals and Applied Kalman Filtering*. John Wiley & Sons, Inc., 2nd edition, 1992.
120. A. Bunse-Gerstner, R. Byers, and V. Mehrmann. Numerical methods for simultaneous diagonalization. *SIAM Journal Matrix Anal. Appl.*, 4:927–949, 1993.
121. G. Burel. Blind separation of sources - A nonlinear neural algorithm. *Neural Networks*, 5(6):937–947, 1992.
122. C. Byrne. Block-iterative interior point optimization methods for image reconstruction from limited data. *Inverse Problems*, 15:1405–1419, 2000.
123. J.A. Cadzow and X. Li. Blind deconvolution. *Digital Signal Processing*, 5(1):3–20, January 1995.
124. D. Callaerts, J. Vandewalle, and D. Van Compernelle. OSVD and QSVD in signal separation. In R.J. Vaccaro, editor, *SVD and Signal Processing II*, pages 323–334. Elsevier Science Publishers, 1991.
125. C.N. Canagarajah. *Digital Signal Processing Techniques for Speech Enhancement in Hearing Aids*. PhD thesis, Christ's College, University of Cambridge, 1993.
126. J. Cao, A. Cichocki, and S. Tanaka. Self-scaling and self-adaptive compact time-delay neural network for dynamical nonlinear and nonstationary system identification. *Journal of Signal Processing*, 4(1):37–43, 2000.
127. J. Cao, N. Murata, S. Amari, A. Cichocki, and T. Takeda. MEG data analysis based on ICA approach with pre- & post-processing techniques. In *Proceedings of 1998 International Symposium on Nonlinear Theory and its Applications (NOLTA-98)*, pages 287–290, Switzerland, 1998.
128. J. Cao, N. Murata, S. Amari, A. Cichocki, and T. Takeda. Independent component analysis for single-trial MEG data decomposition and single-dipole source localization. *Neurocomputing*, 2002.
129. J. Cao, N. Murata, and A. Cichocki. Independent component analysis algorithm for online blind separation and blind equalization systems. *Journal of Signal Processing*, 4(2):131–140, March 2000.
130. X.-R. Cao and R.-W. Liu. General approach to blind source separation. *IEEE Trans. Signal Processing*, 44(3):562–571, March 1996.
131. V. Capdevielle, Ch. Serviere, and J. Lacoume. Blind separation of wide-band sources in the frequency domain. In *Proc. of the 1995 IEEE Int. Conference on Acoustics, Speech, and Signal Processing*, volume 3, pages 2080–2083, Detroit, Michigan, USA, May 9–12 1995.

200. Y. Chen, C.L. Nikias, and J.G. Proakis. CRIMNO: criterion with memory nonlinearity for blind equalization. In J.L. Lacoume, editor, *Higher Order Statistics. Proceedings of the International Signal Processing Workshop*, pages 137–140, Chamrousse, France, 1992. Elsevier.
201. Y.-W. Chen, Z. Nakao, and S. Tamura. Blind deconvolution by genetic algorithms. *Proc. SPIE*, 2662:192–196, 1996.
202. K.M. Cheung and S.F. Yau. Blind deconvolution of system with unknown response excited by cyclostationary impulses. In *Proc. IEEE ICASSP*, pages 1984–1987 vol.3, Detroit, MI, 1995.
203. A. Chevreuril and P. Loubaton. On the use of conjugate cyclo-stationarity: a blind second-order multi-user equalization method. In *Proc. IEEE ICASSP*, pages 2439–2442, Atlanta, GA, 1996.
204. A. Chevreuril and Ph. Loubaton. Blind second-order identification of FIR channels: forced cyclostationarity and structured subspace method. *IEEE Signal Processing Letters*, 4(7):204–206, July 1997.
205. C.-Y. Chi and W.-T. Chen. Maximum-likelihood blind deconvolution: non-white Bernoulli-Gaussian case. *IEEE Trans. Geoscience and Remote Sensing*, 29(5):790–795, September 1991.
206. C.-Y. Chi and M.-C. Wu. Inverse filter criteria for blind deconvolution and equalization using two cumulants. *Signal Processing*, 43(1):55–63, April 1995.
207. C.-Y. Chi and M.-C. Wu. A unified class of inverse filter criteria using two cumulants for blind deconvolution and equalization. In *Proc. IEEE ICASSP*, pages 1960–1963 vol.3, Detroit, MI, 1995.
208. H.-H. Chiang and C.L. Nikias. Adaptive deconvolution and identification of nonminimum phase FIR systems based on cumulants. *IEEE Trans. Automatic Control*, 35(1):36–47, January 1990.
209. I. Chiba, W. Chujo, and M. Fujise. Beam space constant modulus algorithm adaptive array antennas. In *Eighth Int. Conference Antennas and Propagation (Conference Publ. No.370)*, pages 975–978 vol.2, Edinburgh, UK, 30 March-2 April 1993, 1993. IEE.
210. I. Chiba, W. Chujo, and M. Fujise. Beam-space CMA adaptive array antennas. *Electronics and Communications in Japan, Part 1 (Communications)*, 78(2):85–95, February 1995.
211. A. Chkeif, K. Abed-Meriam, G. Kawas Kaleh, and Y. Hua. Spatio-temporal blind adaptive multiuser detection. *IEEE Trans. Communications*, 48, May 2000. to be published.
212. S. Choi. Differential Hebbian-type learning algorithms for decorrelation and independent component analysis. *Electronics Letters*, 34(9):900–901, 1998.
213. S. Choi, S. Amari A., Cichocki, and R. Liu. Natural gradient learning with a nonholonomic constraint for blind deconvolution of multiple channels. In *Proc. of the First International Workshop on Independent Component Analysis and Signal Separation - ICA '99*, pages 371–376, Aussois, France, January 11-15 1999.
214. S. Choi, S. Amari, and A. Cichocki. Natural gradient learning algorithms for decorrelation. In N. Kasabov, R. Kozma, K. Ko, R. O'shea, and T. Gedeon, editors, *Progress in Connectionist-Based Information Systems*, volume 1, pages 645–648, 1997.
215. S. Choi, S. Amari, and A. Cichocki. Natural gradient learning for spatio-temporal decorrelation: Recurrent network. *IEICE Trans. Fundamentals*, E-83A(12):2715–2722, Dec. 2000.

216. S. Choi and A. Cichocki. Adaptive blind separation of speech signals: Cocktail party problem. In *International Conference on Speech Processing (ICSP'97)*, pages 617–622, Seoul, Korea, 26-28 Aug. 1997.
217. S. Choi and A. Cichocki. Blind signal deconvolution by spatio-temporal decorrelation and demixing. In J. Principe, L. Gile, N. Morgan, and E. Wilson, editors, *Neural Networks for Signal Processing VII*, pages 426–435. IEEE, 1997.
218. S. Choi and A. Cichocki. A linear feedforward neural network with lateral feedback connections for blind source separation. In *IEEE Signal Processing Workshop on Higher-order Statistics (Banff, Canada)*, pages 349–353, 21-23 July 1997.
219. S. Choi and A. Cichocki. Cascade neural networks for multichannel blind deconvolution. *Electronics Letters*, 34(12):1186–1187, 1998.
220. S. Choi and A. Cichocki. On-line sequential multichannel blind deconvolution: A deflation approach. In *In Proc. 8th IEEE DSP Workshop*, pages 159–162, Utah, USA, 1998.
221. S. Choi and A. Cichocki. A hybrid learning approach to blind deconvolution of linear MIMO systems. *Electronics Letters*, 35(17):1429–1430, August 19 1999.
222. S. Choi and A. Cichocki. A hybrid learning approach to blind deconvolution of MIMO systems. In *IEEE Signal Processing Workshop on Higher-order Statistics (HOS'99)*, pages 292–295, Ceasarea, Israel, June 14-16 1999.
223. S. Choi and A. Cichocki. An unsupervised hybrid network for blind separation of independent non-Gaussian source signals in multipath environment. *Journal of Communications and Networks*, 1(1):19–25, March 1999.
224. S. Choi and A. Cichocki. Blind separation of nonstationary and temporally correlated sources from noisy mixtures. In *IEEE Workshop on Neural Networks for Signal Processing, NNSP'2000*, pages 405–414, Sydney, Australia, December 11-13 2000.
225. S. Choi and A. Cichocki. Blind separation of nonstationary sources in noisy mixtures. *Electronics Letters*, 36:848–849, April 2000.
226. S. Choi and A. Cichocki. Algebraic differential decorrelation for nonstationary source separation. *Electronics Letters*, 37(23):1414–1415, 2001.
227. S. Choi and A. Cichocki. Blind equalization via approximate maximum likelihood source separation. *Electronics Letters*, 37(1):61–62, Jan. 2001.
228. S. Choi, A. Cichocki, and S. Amari. Adaptive blind deconvolution and equalization with self-adaptive nonlinearities: An information-theoretic approach. In N. Kasabov, R. Kozma, K. Ko, R. O'shea, and T. Gedeon, editors, *Progress in Connectionist-Based Information Systems*, volume 1, pages 641–644, 1997.
229. S. Choi, A. Cichocki, and S. Amari. Blind equalization of SIMO channels via spatio-temporal anti-Hebbian learning rule. In *Proc. of the 1998 IEEE Workshop on NNSP Cambridge*, pages 93–102, UK, 1998. IEEE Press, N.Y.
230. S. Choi, A. Cichocki, and S. Amari. Flexible independent component analysis. In *Proc. of the 1998 IEEE Workshop on NNSP*, pages 83–92, Cambridge, UK, 1998.
231. S. Choi, A. Cichocki, and S. Amari. Fetal electrocardiogram data analysis via flexible independent component analysis. In *The 4th Asia-Pacific Conference on Medical & Biological Engineering (APCMBE'99)*, Seoul, Korea, 1999.
232. S. Choi, A. Cichocki, and S. Amari. Two spatio-temporal decorrelation learning algorithms and their application to multichannel blind deconvolution. In *ICASSP'99*, pages 1085–1088, Phoenix, Arizona, March 15-19 1999.

233. S. Choi, A. Cichocki, and S. Amari. Flexible independent component analysis. *Journal of VLSI Signal Processing*, 26(1/2):25–38, 2000.
234. S. Choi, A. Cichocki, and S. Amari. Local stability analysis of flexible independent component analysis algorithm. In *ICASSP2000*, pages 3426–3429, Istanbul, Turkey, June 5-9 2000.
235. S. Choi, A. Cichocki, and S. Amari. Equivariant nonstationary source separation. *Neural Networks*, 15(1), 2002.
236. S. Choi, A. Cichocki, and A. Belouchrani. Blind separation of second-order nonstationary and temporally colored sources. In *Proceedings of the 11th IEEE Signal Processing Workshop on Statistical Signal Processing*, pages 444–447, Singapore, 2001.
237. S. Choi, A. Cichocki, and A. Belouchrani. Second order nonstationary source separation. *Journal of VLSI Signal Processing*, 2002, to appear.
238. S. Choi, A. Cichocki, and Y. Deville. Differential decorrelation for nonstationary source separation. In *Third International Conference on Independent Component Analysis and Signal Separation (ICA-2001)*, pages 319–322, San Diego, USA, Dec. 9-13 2001.
239. S. Choi, A. Cichocki, L. Zhang, and S. Amari. Approximate maximum likelihood source separation using the natural gradient. In *Proc. IEEE Workshop on Signal Processing Advances in Wireless Communications*, pages 235–238, Taoyuan, Taiwan, 2001.
240. S. Choi, H. Hong, H. Glotin, and F. Berthommier. Multichannel signal separation for cocktail party speech recognition: A dynamic recurrent network. *Neurocomputing*, 2002, to appear.
241. S. Choi, R.-W. Liu, and A. Cichocki. A spurious equilibria-free learning algorithm for the blind separation of non-zero skewness signals. *Neural Processing Letters*, 7(2):61–68, 1998.
242. S. Choi, Y. Lyu, F. Berthommier, H. Glotin, and A. Cichocki. Blind separation of delayed and superimposed acoustic sources: Learning algorithm and experimental study. In *International Conference on Speech Processing (ICSP'99)*, pages 109–114, August 18-20 1999.
243. Y.S. Choi, D.S. Han, and H. Hwang. Joint blind equalization, carrier recovery and timing recovery for HDTV modem. *Proceedings of the SPIE - The International Society for Optical Engineering*, 2094:1357–1363, November 1993.
244. Y.S. Choi, H. Hwang, and D.I. Song. Adaptive blind equalization coupled with carrier recovery for HDTV modem. *IEEE Trans. Consumer Electronics*, 39(3):386–391, 1993.
245. J.C. Christou. Blind deconvolution post-processing of images corrected by adaptive optics. *Proc. SPIE*, 2534:226–234, 1995.
246. M.T. Chu. A continuous Jacobi-like approach to the simultaneous reduction of real matrices. *Lin. Alg. Appl.*, 147:75–96, 1991.
247. K.-I. Chung and C.-T. Lim. Transform methods for PAM signals as asymmetric distribution and performance comparison of bicepstrum blind equalizer using asymmetric distribution. *Journal of the Korean Institute of Telematics and Electronics*, 33B(6):54–63, June 1996.
248. K.I. Chung and C.T. Lim. Asymmetric distribution of PAM signals and blind equalization algorithm using 3rd order statistics. *Journal of the Korean Institute of Telematics and Electronics*, 33A(7):65–75, July 1996.
249. A Cichocki. Neural network for singular value decomposition,. *Electronics Letters*, vol.28, No.8:784–786, 1992.

250. A. Cichocki. Blind separation and extraction of source signals recent results and open problems. In *Proc. of the 4-th Annual Conference of the Institute of Systems, Control and Information Engineers, ISCIE, Osaka*, pages 43–48, May 21-23 1997.
251. A. Cichocki. Blind identification and separation of noisy source signals - neural networks approaches. *ISCIE Journal*, 42(2):63–73, 1998.
252. A. Cichocki, S. Amari, M. Adachi, and W. Kasprzak. Self-adaptive neural networks for blind separation of sources. In *1996 IEEE International Symposium on Circuits and Systems, ISCAS'96*, volume 2, pages 157–161, Atlanta, USA, May 1996. IEEE.
253. A. Cichocki, S. Amari, and J. Cao. Blind separation of delayed and convolved signals with self-adaptive learning rate. *IEEE International Symposium on Nonlinear Theory and its Applications, NOLTA-96, Kochi Japan*, pages 229–232, Oct 7-9 1996.
254. A. Cichocki, S. Amari, and J. Cao. Neural network models for blind separation of time delayed and convolved signals. *Japanese IEICE Transaction on Fundamentals*, Vol E-82-A No.9:1595–1603, Sept. 1997.
255. A. Cichocki, S. Amari, and R. Thawonmas. Blind signal extraction using self-adaptive non-linear Hebbian learning rule. In *International Symposium on Nonlinear Theory and its Applications, NOLTA96*, pages 377–380, Research Society on NTA, IEICE, Kochi, Japan, Oct. 1996.
256. A. Cichocki and A. Belouchrani. Sources separation of temporally correlated sources from noisy data using bank of band-pass filters. In *Third International Conference on Independent Component Analysis and Signal Separation (ICA-2001)*, pages 173–178, San Diego, USA, Dec. 9-13 2001.
257. A. Cichocki, R. Bogner, and L. Moszczyński. Improved adaptive algorithms for blind separation of sources. In *Proc. of Conference on Electronic Circuits and Systems, KKTOiUE*, pages 647–652, Zakopane, Poland, 1995.
258. A. Cichocki, R.E. Bogner, L. Moszczyński, and K. Pope. Modified Héroult-Jutten algorithms for blind separation of sources. *Digital Signal Processing*, 7 No.2:80 – 93, April 1997.
259. A. Cichocki and J. Cao. A self-adaptive neural network for on-line blind separation of convolved sources. In B.B. Djordjevic and H.D. Reis, editors, *Proc. of III Int. Workshop-Advances in Signal Processing for NDE of Materials, Topics on Non-destructive Evaluation Series*, pages 207–212, Quebec, 1998. The American Society for Non-destructive Evaluation Testing, Inc. Quebec.
260. A. Cichocki, J. Cao, S. Amari, N. Murata, T. Takeda, and H. Endo. Enhancement and blind identification of magnetoencephalographic signals using independent component analysis. In *Proc of th 11th Int. Conference on Biomagnetism BIOMAG-98*, pages (169–172, Sendai, Japan, 1999.
261. A. Cichocki, S.C. Douglas, and S. Amari. Robust techniques for independent component analysis (ICA) with noisy data. *Neurocomputing*, 23(1-3):113–129, November 1998.
262. A. Cichocki, S.C. Douglas, S. Amari, and P. Mierzejewski. Independent component analysis for noisy data. In *Proc. of International Workshop on Independence and Artificial Neural Networks*, pages 52–58, Tenerife, 1998.
263. A. Cichocki, R. R. Gharieb, and T. Hoya. Efficient extraction of evoked potentials by combination of Wiener filtering and subspace methods. In *Proc. of IEEE Int. Conf. Acoustics, Speech, Signal Processing, ICASSP-2001*, pages 3117–3120, Utah, USA, May 7-11 2001.

264. A. Cichocki, R.R. Gharieb, and N. Mourad. Extraction of superimposed evoked potentials by combination of independent component analysis and cumulant-based matched filtering. In *Proceedings of the 11th IEEE Signal Processing Workshop on Statistical Signal Processing*, pages 237–240, Singapore, 2001.
265. A. Cichocki, J. Karhunen, W. Kasprzak, and R. Vigário. Neural networks for blind separation with unknown number of sources. *Neurocomputing*, 24(1-3):55–93, February 1999.
266. A. Cichocki and W. Kasprzak. Nonlinear learning algorithms for blind separation of natural images. *Neural Network World*, 6(4):515–523, 1996.
267. A. Cichocki, W. Kasprzak, and S. Amari. Multi-layer neural networks with a local adaptive learning rule for blind separation of source signals. In *to appear in the Proc. of the 1995 Int. Symposium on Nonlinear Theory and its Applications (NOLTA'95)*, volume 1, pages 61–66, Las Vegas, USA, Dec. 10-14 1995.
268. A. Cichocki, W. Kasprzak, and S. Amari. Adaptive approach to blind source separation with cancellation of additive and convolutional noise. In *Third International Conference on Signal Processing, ICSP'96*, volume 1, pages 412–415, Beijing, China, Oct. 1996.
269. A. Cichocki, W. Kasprzak, and S. Amari. Neural network approach to blind separation and enhancement of images. In *Signal Processing VIII. Theories and Applications., EURASIP/LINT Publ., Trieste, Italy*, volume 1, pages 579–582, Sept. 1996.
270. A. Cichocki, W. Kasprzak, and W. Skarbek. Adaptive learning algorithm for principal component analysis with partial data. In R. Trappl, editor, *Cybernetics and Systems '96. Thirteenth European Meeting on Cybernetics and Systems Research*, volume 2, pages 1014–1019. Austrian Society for Cybernetic Studies, Vienna, 1996.
271. A. Cichocki, P. Kostyla, T.Lobos, and Z. Waclawek. Neural networks for real-time estimation of parameters of signals in power systems. *Int Journal of Engineering Intelligent Systems for Electrical Engineering and Communication.,* 6(3):1379–1380, 1998.
272. A. Cichocki and L. Moszczyński. New learning algorithm for blind separation of sources. *Electronics Letters*, 28(21):1986–1987, October 1992.
273. A. Cichocki, L. Moszczyński, and R. Bogner. Improved adaptive algorithms for blind separation of sources. In *Proc. of the Int. Conference on Electronic Circuits and Systems*, pages 647–652, Zakopane, Poland, Oct. 25-28 1995.
274. A. Cichocki, B. Orsier, A.D. Back, and S. Amari. On-line adaptive algorithms in non stationary environments using a modified conjugate gradient approach. In *Proc. of IEEE Workshop on Neural Networks for Signal Processing*, pages 316–325, 1997.
275. A. Cichocki, T. Rutkowski, A. K. Barros, and S.-H. Oh. Blind extraction of temporally correlated but statistically dependent acoustic signals. In *IEEE Workshop on Neural Networks for Signal Processing, NNSP'2000*, pages 455–464, Sydney, Australia, December 11-13 2000.
276. A. Cichocki, I. Sabała, and S. Amari. Intelligent neural networks for blind signal separation with unknown number of sources. In *Proc. of Conference Engineering of Intelligent Systems, ESI-98*, pages 148–154, Tenerife, 1998.
277. A. Cichocki, I. Sabała, S. Choi, B. Orsier, and R. Szupiluk. Self adaptive independent component analysis for sub-Gaussian and super-Gaussian mixtures with unknown number of sources and additive noise. In *Proc. Int. Symposium on Nonlinear Theory and its Applications, NOLTA-97*, pages 731–734, 1997.
278. A. Cichocki, R. Świniarski, and R.E. Bogner. Hierarchical neural network for robust PCA of complex-valued signals. In *World Congress on Neural Networks, WCNN-96*, pages 818–821,

- San Diego, USA, Sept. 1996. INNS Press, Lawrence Erlbaum Associates Inc. Publ., Mahwah, NJ.
279. A. Cichocki and R. Thawonmas. On-line algorithm for blind signal extraction of arbitrarily distributed, but temporally correlated sources using second order statistics. *Neural Processing Letters*, 12(1):91–98, August 2000.
 280. A. Cichocki, R. Thawonmas, and S. Amari. Sequential blind signal extraction in order specified by stochastic properties. *Electronics Letters*, 33(1):64–65, January 1997.
 281. A. Cichocki and R. Unbehauen. Neural networks for computing eigenvalues and eigenvectors. *Biological Cybernetics*, 68:155–164, 1992.
 282. A. Cichocki and R. Unbehauen. Robust estimation of principal components in real time. *Electronics Letters*, 29(21):1869–1870, 1993.
 283. A. Cichocki and R. Unbehauen. *Neural Networks for Optimization and Signal Processing*. John Wiley & Sons, New York, 1994. new revised and improved edition.
 284. A. Cichocki and R. Unbehauen. Robust neural networks with on-line learning for blind identification and blind separation of sources. *IEEE Trans. Circuits and Systems I: Fundamentals Theory and Applications*, 43(11):894–906, Nov. 1996.
 285. A. Cichocki, R. Unbehauen, L. Moszczyński, and E. Rummert. A new on-line adaptive learning algorithm for blind separation of sources. In *Proc. of the 1994 Int. Symposium on Artificial Neural Networks ISANN-94*, pages 406–411, Tainan, Taiwan,, Dec. 1994.
 286. A. Cichocki, R. Unbehauen, and E. Rummert. Robust learning algorithm for blind separation of signals. *Electronics Letters*, 30(17):1386–1387, August 1994.
 287. A. Cichocki and S. Vorobyov. Application of ICA for automatic noise and interference cancellation in multisensory biomedical signals. In *Proceedings of the Second International Workshop on ICA and BSS, ICA'2000*, pages 621–626, Helsinki, Finland, 19-22 June 2000.
 288. A. Cichocki and L. Zhang. Two-stage blind deconvolution using state-space models (invited). In *Proceedings of the Fifth International Conference on Neural Information Processing (ICONIP'98)*, pages 729–732, Kitakyushu, Japan, Oct. 21-23 1998.
 289. A. Cichocki and L. Zhang. Adaptive multichannel blind deconvolution using state-space models. In *Proc of '99 IEEE Workshop on Higher-Order Statistics*, pages 296–299, Caesarea, Israel, June 14-16 1999.
 290. A. Cichocki, L. Zhang, and S. Amari. Semi-blind and state-space approaches to nonlinear dynamic independent component analysis. In *Proceedings of 1998 International Symposium on Nonlinear Theory and its Applications (NOLTA-98)*, volume 1, pages 291–294, Crans-Montana, Switzerland, 1998.
 291. A. Cichocki, L. Zhang, S. Choi, and S. Amari. Nonlinear dynamic independent component analysis using state-space and neural network models. In *Proc. of the First International Workshop on Independent Component Analysis and Signal Separation - ICA'99*, pages 99–104, Aussois, France, January 11-15 1999.
 292. A. Cichocki, L. Zhang, and T. Rutkowski. Blind separation and filtering using state space models. In *The 1999 IEEE International Symposium on Circuits and Systems, (ISCAS'99)*, volume 5, pages 78–81, Orlando, Florida, May 30 - Jun. 2 1999.
 293. A. Cichocki, and P. Georgiev. Blind source separation algorithms with matrix constraints. *IEICE Trans. Fundamentals*, volume E86A, March 2003 (in print).

326. S. Cruces, L. Castedo, and A. Cichocki. An iterative inversion method for blind source separation. In *Proc. of the First International Workshop on Independent Component Analysis and Signal Separation - ICA '99*, pages 307–312, Aussois, France, 1999.
327. S. Cruces, L. Castedo, and A. Cichocki. Novel blind source separation algorithms using cumulants. In *Proceedings of ICASSP'2000*, volume V, pages 3152–3155, Istanbul, Turkey, June 2000.
328. S. Cruces, L. Castedo, and A. Cichocki. Asymptotically equivariant blind source separation using cumulants. *Neurocomputing*, vol 49, pp 87-118, Dec. 2002.
329. S. Cruces, A. Cichocki, and S. Amari. Criteria for the simultaneous blind extraction of arbitrary groups of sources. In *Proceedings of the ICA 2001 Workshop*, San Diego, USA, 2001.
330. S. Cruces, A. Cichocki, and S. Amari. The minimum entropy and cumulants based contrast functions for blind source extraction. In *Bio-Inspired Applications of Connectionism: Proceedings of 6th International Work-Conference on Artificial and Natural Networks*, pages 786–793, Vol. LNCS2085, Granada, Spain, 2001.
331. S. Cruces, A. Cichocki, and L. Castedo. A unified perspective of blind source separation algorithms. In *Proceedings of the Learning'98*, Madrid (Spain), September 1998.
332. S. Cruces, A. Cichocki, and L. Castedo. Blind source extraction in Gaussian noise. In *Proceedings of the Second International Workshop on ICA and BSS, ICA '2000*, pages 63–68, Helsinki, Finland, June 19-22 2000.
333. S. Cruces, A. Cichocki, and L. Castedo. An iterative inversion approach to blind source separation. *IEEE Trans. on Neural Networks*, 11(6):1423–1437, 2000.
334. S. Cruces, A. Cichocki, and S. Amari. On a new blind signal extraction algorithm: Different criteria and stability analysis. *IEEE Signal Processing Letters*, vol. 9 (8), pp. 233 - 236, Aug. 2002.
335. R. Cusani and A. Laurenti. Evaluation of the constant modulus algorithm in blind equalization of three ray multipath fading channels. *European Trans. Telecommunications and Related Technologies*, 6(2):187–190, March 1995.
336. B. Daneshrad and H. Samuelli. A 1.6 Mbps digital-QAM system for DSL transmission. *IEEE Journal on Selected Areas in Communications*, 13(9):1600–1610, December 1995.
337. A. Dapena, L. Castedo, and C. Escudero. An unconstrained single stage criterion for blind source separation. In *Proc. IEEE ICASSP*, pages 2706–2709 vol. 5, Atlanta, GA, 1996.
338. B.L.K. Davey, R.G. Lane, and R.H.T. Bates. Blind deconvolution of noisy complex-valued image. *Optics Communications*, 69(5-6):353–356, January 1989.
339. D. Dayton, S. Sandven, and J. Gonglewski. Signal-to-noise and convergence properties of a modified Richardson-Lucy algorithm with Knox-Thompson start point. *Proc. SPIE*, 2827:162–169, 1996.
340. E. de Carvalho and D.T.M. Slock. Maximum-likelihood blind FIR multi-channel estimation with Gaussian prior for the symbols. In *Proc. IEEE ICASSP*, pages 3593–3596, 1997.
341. M. de Courville, P. Duhamel, P. Madec, and J. Palicot. Blind equalization of OFDM systems based on the minimization of a quadratic criterion. In *Proc. IEEE Int. Conference Commun.*, pages 1318–1322 vol.3, Dallas, TX, 1996.
342. J. Declerck, J. Feldmar, F. Betting, and M.L. Goris. Automatic registration and alignment on a template of cardiac stress and rest SPECT images. In *Proceedings of the IEEE Workshop*

393. S.C. Douglas. Adaptive algorithms and architectures for blind signal separation and blind deconvolution. In Y.-H. Hu and J.-N. Hwang, editors, *to appear in The Neural Networks for Signal Processing Handbook*, Boca Raton, FL, 2001. CRC/IEEE Press. to be published.
394. S.C. Douglas and S. Amari. Natural gradient adaptation. In S. Haykin, editor, *Unsupervised Adaptive Filtering, Vol. I: Blind Source Separation*, pages 13–61. Wiley, New York, 2000.
395. S.C. Douglas, S. Amari, and S.-Y. Kung. On gradient adaptation with unit-norm constraints. *IEEE Trans. Signal Processing*, 1997.
396. S.C. Douglas, S. Amari, and S.-Y. Kung. Adaptive paraunitary filter banks for spatio-temporal principal and minor subspace analysis. In *Proc. IEEE International Conference Acoustics, Speech, Signal Processing*, volume 2, pages 1089–1092, Phoenix, AZ, March 1999.
397. S.C. Douglas, S. Amari, and S.Y. Kung. Gradient adaptation under unit norm constraints. In *Proc. 9th IEEE Signal Processing Workshop on Statistical Signal and Array Processing*, pages 144–147, Portland, OR, September 1998.
398. S.C. Douglas and A. Cichocki. Convergence analysis of local algorithms for blind decorrelation. In *presented at Neural Information Processing Systems Conference, Workshop on Blind Signal Processing*, Denver, CO, December 2-7 1996.
399. S.C. Douglas and A. Cichocki. Neural networks for blind decorrelation of signals. *IEEE Trans. Signal Processing*, 45(11):2829–2842, November 1997.
400. S.C. Douglas and A. Cichocki. On-line step size selection for training adaptive systems. *IEEE Signal Processing Mag.*, 14(6):45–46, November 1997.
401. S.C. Douglas and A. Cichocki. Adaptive step size techniques for decorrelation and blind source separation. In *Proc. 32nd Asilomar Conference on Signals, Systems, and Computers*, volume 2, pages 1191–1195, Pacific Grove, CA, November 1998.
402. S.C. Douglas, A. Cichocki, and S. Amari. Fast-convergence filtered-regressor algorithms for blind equalisation. *Electronics Letters*, 32(23):2114–2115, 7th November 1996.
403. S.C. Douglas, A. Cichocki, and S. Amari. Multichannel blind separation and deconvolution of sources with arbitrary distributions. In *Proc. IEEE Workshop on Neural Networks for Signal Processing*, pages 436–445, Almelia Island Plantation, FL, September 1997.
404. S.C. Douglas, A. Cichocki, and S. Amari. Quasi-Newton filtered-regressor algorithms for adaptive equalization and deconvolution. In *Proc. IEEE Workshop on Signal Processing Advances in Wireless Communications*, pages 109–112, Paris, France, April 1997.
405. S.C. Douglas, A. Cichocki, and S. Amari. A bias removal technique for blind source separation with noisy measurements. *Electronics Letters*, 34(14):1379–1380, July 1998.
406. S.C. Douglas, A. Cichocki, and S. Amari. Self-whitening algorithms for adaptive equalization and deconvolution. *IEEE Trans. Signal Processing*, 47(4):1161–1165, April 1999.
407. S.C. Douglas and S. Haykin. On the relationship between blind deconvolution and blind source separation. In *Proc. 31st Asilomar Conference on Signals, Systems, and Computers*, volume 2, pages 1591–1595, Pacific Grove, CA, November 1997.
408. S.C. Douglas and S. Haykin. Relationships between blind deconvolution and blind source separation. In S. Haykin, editor, *Unsupervised Adaptive Filtering, Vol II: Blind Deconvolution*, pages 113–145. Wiley, New York, 2000.
409. S.C. Douglas and S.-Y. Kung. Design of estimation/deflation approaches to independent component analysis. In *Proc. 32nd Asilomar Conference on Signals, Systems, and Computers*, volume 1, pages 707–711, Pacific Grove, CA, November 1998.

460. P. Georgiev and A. Cichocki. Multichannel blind deconvolution of colored signals via eigenvalue decomposition. In *Proceedings of the 11th IEEE Signal Processing Workshop on Statistical Signal Processing, Aug. 2001*, pages 273–276, Singapore, 2001.
461. P. Georgiev, A. Cichocki, and S. Amari. Nonlinear dynamical system generalizing the natural gradient algorithm. In *Proceedings of the NOLTA 2001*, pages 391–394, Japan, 2001.
462. P. Georgiev, A. Cichocki, and S. Amari. On some extensions of the natural gradient algorithm. In *Proc. Third International Conference on Independent Component Analysis and Blind Signal Separation (ICA 2001)*, pages 581–585, San Diego, USA, 2001.
463. R.W. Gerchberg and W.O. Saxton. A practical algorithm for the determination of phase from image and diffraction plane pictures. *Optik*, 35:237–246, 1972.
464. D. Gerlach and A. Paulraj. Adaptive transmitting antenna arrays with feedback. *IEEE Signal Processing Letters*, 1(10):150–152, October 1994.
465. W.H. Gerstaecker, R.F.H. Fischer, and J.B. Huber. Blind equalization for digital cable transmission with Tomlinson-Harashima precoding and shaping. In *Proc. IEEE Int. Conference Commun.*, pages 493–497 vol.1, Seattle, WA, 1995.
466. D. Gesbert and P. Duhamel. Robust blind joint data/channel estimation based on bilinear optimization. In *Proc. IEEE SP Workshop on Stat. Signal Array Processing*, pages 168–171, Corfu, Greece, 1996.
467. D. Gesbert and P. Duhamel. Robust blind channel identification and equalization based on multi-step predictors. In *Proc. IEEE ICASSP*, pages 3621–3624, Munich (Germany), 1997.
468. D. Gesbert, P. Duhamel, and S. Mayrargue. A bias removal technique for the prediction-based blind adaptive multichannel deconvolution. In A. Singh, editor, *Conference Record of The Twenty-Ninth Asilomar Conference on Signals, Systems and Computers*, pages 275–279 vol.1. IEEE Comput. Society Press, 1996.
469. D. Gesbert, P. Duhamel, and S. Mayrargue. Blind multichannel adaptive MMSE equalization with controlled delay. In *Proc. IEEE SP Workshop on Stat. Signal Array Processing*, pages 172–175, Corfu, Greece, 1996.
470. D. Gesbert, P. Duhamel, and S. Mayrargue. On-line blind multichannel equalization based on mutually referenced filters. *IEEE Trans. Signal Processing*, 45(9):2307–2317, September 1997.
471. D. Gesbert and A. Paulraj. Blind multi-user linear detection of CDMA signals in frequency-selective channels. In *Proc. ICC*, 1998.
472. D. Gesbert, J. Sorelius, and A. Paulraj. Blind multi-user MMSE detection of CDMA signals. In *Proc. IEEE ICASSP*, 1998.
473. A. Gharbi and F. Salam. Algorithm for blind signal separation and recovery in static and dynamics environments. In *IEEE Symposium on Circuits and Systems*, pages 713–716, Hong Kong, June 1997.
474. R.R. Gharieb and A. Cichocki. Noise reduction in brain evoked potentials based on third-order correlations. *IEEE Transactions on Biomedical Engineering*, 48:501–512, 2001.
475. R.R. Gharieb and A. Cichocki. Segmentation and tracking of EEG signal using an adaptive recursive bandpass filter. *Medical and Biological Engineering and Computing*, 39:237–248, 2001.
476. D.C. Ghiglia, L.A. Romero, and G.A. Mastin. Systematic approach to two-dimensional blind deconvolution by zero-sheet separation. *Journal of the Optical Society of America A (Optics and Image Science)*, 10(5):1024–1036, May 1993.

669. J. Karaoguz and S.H. Ardalan. A soft decision-directed blind equalization algorithm applied to equalization of mobile communication channels. In *SUPERCOMM/ICC*, pages 1272–1276 vol.3, Chicago, IL, 1992. IEEE.
670. J. Karhunen. *Recursive Estimation of Eigenvectors of Correlation Type Matrices for Signal Processing Applications*. Dr. Tech. Thesis, Helsinki University of Technology, Finland, 1984.
671. J. Karhunen. Stability of Oja’s PCA subspace rule. *Neural Computation*, 6:739–747, 1994.
672. J. Karhunen. Neural approaches to independent component analysis and source separation. In M. Verleysen, editor, *4th European Symposium on Artificial Neural Networks, ESANN ’96. Proceedings*, pages 249–266, Proceedings of European Symposium on Artificial Neural Networks, Bruges, Belgium, 24–26 April 1996, 1996. D Facto.
673. J. Karhunen. Nonlinear independent component analysis. In R. Everson and S. Roberts, editors, *ICA: Principles and Practice*, page 25. Cambridge University Press, Cambridge, UK, 2000.
674. J. Karhunen, A. Cichocki, W. Kasprzak, and P. Pajunen. On neural blind separation with noise suppression and redundancy reduction. *Int. Journal of Neural Systems*, 8(2):219–237, April 1997.
675. J. Karhunen, A. Hyvärinen, R. Vigário, J. Hurri, and E. Oja. Applications of neural blind separation to signal and image processing. In *Proc. 1997 Int. Conference on Acoustics, Speech, and Signal Proc. ICASSP-97*, Munich, Germany, April 1997.
676. J. Karhunen and J. Joutsensalo. Learning of robust principal component subspace. In *IJCNN’93. Proceedings of 1993 International Joint Conference on Neural Networks*, volume 3, pages 2409–2412, Nagoya, Japan, 1993.
677. J. Karhunen and J. Joutsensalo. Representation and separation of signals using nonlinear PCA type learning. *Neural Networks*, 7(1):113–127, 1994.
678. J. Karhunen and J. Joutsensalo. Generalization of principal component analysis, optimization problems, and neural networks. *Neural Networks*, 8(4):549–562, 1995.
679. J. Karhunen, E. Oja, L. Wang, R. Vigário, and J. Joutsensalo. A class of neural networks for independent component analysis. *IEEE Trans. on Neural Networks*, 8(3):486–503, May 1997.
680. J. Karhunen and P. Pajunen. Hierarchic nonlinear PCA algorithms for neural blind source separation. In *NORSIG 96 Proceedings – 1996 IEEE Nordic Signal Processing Symposium*, pages 71–74, Espoo, Finland, Sept. 1996.
681. J. Karhunen and P. Pajunen. Blind source separation and tracking using nonlinear PCA criterion: A least-squares approach. In *Proc. 1997 Int. Conference on Neural Networks (ICNN’97)*, volume 4, pages 2147–2152, Houston, Texas, USA, June 1997.
682. J. Karhunen and P. Pajunen. Blind source separation using least-squares type adaptive algorithms. In *Proc. of the Intl. Conference on Acoustics, Speech, and Signal Processing (ICASSP-97)*, volume IV, pages 3361–3364, Munich, Germany, April 1997.
683. J. Karhunen, L. Wang, and J. Joutsensalo. Neural estimation of basis vectors in independent component analysis. In *Proc. of the Int. Conference on Neural Networks*, pages 317–322, Paris, France, Oct. 9–13 1995.
684. J. Karhunen, L. Wang, and R. Vigário. Nonlinear PCA type approaches for source separation and independent component analysis. In *Proc. ICNN’95*, pages 995–1000, Perth, Australia, Nov.-Dec. 1995.

929. D. P. O’Leary. Near-optimal parameters for Tikhonov and other regularization methods. *SIAM J. Sci. Comput.*, 23(4):1161–1171, 2001.
930. B.A. Olshausen and D.J Field. Emergence of simple-cell receptive field properties by learning a sparse code for natural images. *Nature*, 381:607–609, 1996.
931. S. J. Orfanidis. *Optimum Signal Processing: An Introduction*. McGraw-Hill, New York, 2 edition, February 1988.
932. J. Orr and K.-R. Mller. *Neural Networks: Tricks of the Trade*. Springer, Heidelberg, 1998.
933. G.C. Orsak and S.C. Douglas. Code-length-based universal extraction for blind signal separation. In *to be presented at IEEE International Conference Acoustics, Speech, Signal Processing*, Istanbul, Turkey, June 2000.
934. S. Osowski and A. Cichocki. Learning in dynamic neural networks using signal flow graphs. *Int. Journal of Circuit Theory and Applications*, 27:209–228, April 1999.
935. A.J. O’Toole, H. Abdi, K.A. Deffenbacher, and D. Valentin. Low-dimensional representation of faces in higher dimensions of the face space. *Journal of the Optical Society of America A*, 10(3):405–411, 1993.
936. B. Ottersten. Array processing for wireless communications. In *Proc. IEEE workshop on Stat. Signal Array Processing*, pages 466–473, Corfu, June 1996.
937. K. Pahlavan and A.H. Levesque. Wireless data communications. *Proc. IEEE*, 82(9):1398–1430, September 1994.
938. P. Pajunen. Nonlinear independent component analysis by self-organizing maps. In C. von der Malsburg, W. von Seelen, J.C. Vorbruggen, and B. Sendhoff, editors, *Artificial Neural Networks - ICANN 96. 1996 International Conference Proceedings*, pages 815–820, Bochum, Germany, 1996. Springer-Verlag.
939. P. Pajunen. Blind separation of binary sources with less sensors than sources. In *Proc. 1997 Int. Conference on Neural Networks*, volume 3, pages 1994–1997, Houston, Texas, USA, June 1997.
940. P. Pajunen. A competitive learning algorithm for separating binary sources. In *Proc. European Symposium on Artificial Neural Networks (ESANN’97)*, pages 255–260, Bruges, Belgium, April 1997.
941. P. Pajunen, A. Hyvärinen, and J. Karhunen. Nonlinear blind source separation by self-organizing maps. In S. Amari, L. Xu, L.-W. Chan, I. King, and K.-S. Leung, editors, *Progress in Neural Information Processing. Proceedings of the International Conference on Neural Information Processing*, pages 1207–1210 vol.2, Hong Kong, 1996. Springer-Verlag.
942. P. Pajunen and J. Karhunen. A maximum likelihood approach to nonlinear blind source separation. In *Proc. Int. Conference on Artificial Neural Networks (ICANN’97)*, pages 541–546, Lausanne, Switzerland, Oct. 1997.
943. P. Pajunen and J. Karhunen. Self-organizing maps for independent component analysis. In *Proc. of Workshop on Self-Organizing Maps (WSOM’97)*, pages 96–99, Espoo, Finland, June 1997.
944. P. Pajunen and J. Karhunen. Least-squares methods for blind source separation based on nonlinear PCA. *Int. Journal of Neural Systems*, 8(5 and 6):601–612, 1998.
945. D. Pal. Fractionally spaced semi-blind equalization of wireless channels. In *26-th Asilomar Conference Signals, Systems Comp.*, pages 642–645 vol.2. IEEE, 1992.

1137. A. Taleb, J. Solé, and C. Jutten. Blind inversion of Wiener systems. In *IWANN 99*, pages 655–664, Alicante (Spain), June 1999.
1138. S. Talwar and A. Paulraj. Performance analysis of blind digital signal copy algorithms. In *Proc. IEEE MILCOM*, pages 123–127 vol.1, 1994.
1139. S. Talwar, A. Paulraj, and G. Golub. A robust numerical approach for array calibration. In *Proc. IEEE ICASSP*, volume IV, pages 316–319, 1993.
1140. S. Talwar, A. Paulraj, and M. Viberg. Reception of multiple co-channel digital signals using antenna arrays with applications to PCS. In *Proc. ICC*, volume II, pages 790–794, 1994.
1141. S. Talwar, M. Viberg, and A. Paulraj. Blind estimation of multiple co-channel digital signals arriving at an antenna array. In *27-th Asilomar Conference Signals, Systems Comp.*, pages 349–353 vol.1. IEEE, 1993.
1142. S. Talwar, M. Viberg, and A. Paulraj. Blind estimation of multiple co-channel digital signals using an antenna array. *IEEE Signal Processing Letters*, 1(2):29–31, February 1994.
1143. S. Talwar, M. Viberg, and A. Paulraj. Blind estimation of synchronous co-channel digital signals using an antenna array. Part I: Algorithms. *IEEE Trans. Signal Processing*, 44(5):1184–1197, May 1996.
1144. T. Tanaka, R. Miura, I. Chiba, and Y. Karasawa. ASIC implementation of DSP for beam space CMA adaptive array antenna in mobile communications. In *IEEE Antennas and Propagation Society International Symposium. 1995 Digest*, pages 98–101 vol.1, Newport Beach, CA, 1995.
1145. T. Tanaka, R. Miura, I. Chiba, and Y. Karasawa. An ASIC implementation scheme to realize a beam space CMA adaptive array antenna. *IEICE Trans. Communications*, E78-B(11):1467–1473, November 1995.
1146. J. Tang, Z. Li, and L. Li. Blind equalization on time-variant channels. *Acta Electronica Sinica*, 21(7):69–76, July 1993.
1147. S.-H.T. Tang and R.M. Mersereau. Multiscale blind image restoration using a wavelet decomposition. In *Proc. IEEE ICASSP*, pages 2279–2282 vol. 4, Atlanta, GA, 1996.
1148. F. Tarres and J. Fernandez-Rubio. An adaptive array for coherent interference suppression. In M.H. Hamza, editor, *Applied Control, Filtering and Signal Processing. Proceedings of the IASTED International Symposium*, pages 169–170, Geneva, Switzerland, 15-18 June 1987, 1987. ACTA Press.
1149. J.G. Taylor and S. Coombes. Learning of higher order correlations. *Neural Networks*, 6:423–427, 1993.
1150. K. Teramoto and K. Arai. POCS-based blind array processing in incoherent microwave radiometric image reconstruction. In *Proc. IEEE ICASSP*, pages 2702–2705 vol. 5, Atlanta, GA, 1996.
1151. R. Thawonmas and A. Cichocki. Blind signal extraction of arbitrary distributed but temporally correlated signals-neural network approach. *IEICE Transactions, Fundamentals*, E82 A(9):1834–1844, Sept. 1999.
1152. R. Thawonmas and A. Cichocki. Blind extraction of source signals with specified stochastic features. In *Int. Conference on Acoustics Speech and Signal Processing*, volume 4, pages 3353–3357, 97.
1153. R. Thawonmas, A. Cichocki, and S. Amari. A Cascade neural network for blind signal extraction without spurious equilibria. *IEICE Trans. on Fundamentals of Electronics, Communications and Computer Sciences*, E81-A(9):1833–1846, 1998.

1359. E. Zervas, J. Proakis, and V. Eyuboglu. Effects of constellation shaping on blind equalization. *Proc. SPIE*, 1565:178–187, 1991.
1360. E. Zervas, J. Proakis, and V. Eyuboglu. A 'quantized' channel approach to blind equalization. In *SUPERCOMM/ICC*, pages 1539–1543 vol.3, Chicago, IL, 1992. IEEE.
1361. P. Zetterberg. *Mobile Cellular Communications with Base Station Antenna Arrays: Spectrum Efficiency, Algorithms and Propagation Models*. PhD thesis, Royal Institute Technology, Stockholm, Sweden, June 1997.
1362. P. Zetterberg and B. Ottersten. The spectrum efficiency of a base station antenna array system for spatially selective transmission. *IEEE Trans. Vehicular Technology*, 44(3):651–660, August 1995.
1363. B. Zhang, M.N. Shirazi, and H. Noda. Blind restoration of degraded binary Markov random field images. *Graphical Models and Image Processing*, 58(1):90–98, January 1996.
1364. L. Zhang, S. Amari, and A. Cichocki. Natural gradient approach to blind separation of over- and under-complete mixtures. In *Proc. of the First International Workshop on Independent Component Analysis and Signal Separation - ICA '99*, pages 455–460, Aussois, France, January 11-15 1999.
1365. L. Zhang, S. Amari, and A. Cichocki. Semiparametric approach to multichannel blind deconvolution of nonminimum phase systems. In S.A. Solla, T.K. Leen, and K.-R. Müller, editors, *Advances in Neural Information Processing Systems*, volume 12, pages 363–369. MIT Press, Cambridge, MA, 2000.
1366. L. Zhang, S. Amari, and A. Cichocki. Equi-convergence algorithm for blind separation of sources with arbitrary distributions. In J.Mira and A. Prieto, editors, *Bio-Inspired Applications of Connectionism*, volume LNCS 2085, pages 626–833. Springer, Granada, Spain, 2001.
1367. L. Zhang, S. Amari, and A. Cichocki. Semiparametric model and superefficiency in blind deconvolution. *Signal Processing*, 81:2535–2553, Dec. 2001.
1368. L. Zhang and A. Cichocki. Blind deconvolution/equalization using state-space models. In *Proceedings of the 1998 IEEE Workshop on Neural Networks for Signal Processing (NNSP'98)*, pages 123–131, Cambridge, UK, August 31 - September 2 1998.
1369. L. Zhang and A. Cichocki. Blind separation of filtered source using state-space approach. In *Neural Information Processing Systems, NIPS'98*, pages 648–654, Denver, USA, 1998.
1370. L. Zhang and A. Cichocki. Blind separation/deconvolution of sources using canonical stable state-space models. In *Proceeding of the 1998 international Symposium on Nonlinear Theory and its Applications (NOLTA'98)*, pages 927–930, Crans-Montana, Switzerland, Sept, 14-17 1998.
1371. L. Zhang and A. Cichocki. Information backpropagation learning algorithm for blind dynamic separation. In *Proceeding of IASTED International Conference Signal and Image Processing (SIP'98)*, pages 1–5, Las Vegas, October. 28-31 1998.
1372. L. Zhang and A. Cichocki. Blind separation of filtered source using state-space approach. In M.S. Kearns, S.A. Solla, and D.A. Cohn, editors, *Advances in Neural Information Processing Systems, NIPS-98*, volume 11, pages 648–654. MIT press, Cambridge, MA, 1999.
1373. L. Zhang and A. Cichocki. Adaptive blind source separation for tracking active sources of biomedical data. In *Proc of Workshop on Signal Processing and Applications*, page Paper No. 45 at CDROM, Brisbane, Australia, 2000.

1374. L. Zhang and A. Cichocki. Blind deconvolution of dynamical systems: A state space approach (invited paper). *Japanese Journal of Signal Processing*, 4(2):111–130, March 2000.
1375. L. Zhang and A. Cichocki. Natural gradient approach to blind deconvolution of dynamical systems. In *Proceedings of the Second International Workshop on ICA and BSS, ICA'2000*, pages 27–32, Helsinki, Finland, 19-22 June 2000.
1376. L. Zhang and A. Cichocki. Feature extraction and blind separation of convolutive signals. In *Proceedings of the 8-th International Conference on Neural Information Processing (ICONIP'2001)*, pages 789–794, Shanghai, China, Nov. 14-18 2001.
1377. L. Zhang, A. Cichocki, and S. Amari. Geometrical structures of FIR manifolds and their application to multichannel blind deconvolution. In *Proceeding of Int'l IEEE Workshop on Neural Networks for Signal Processing (NNSP'99)*, pages 303–312, Madison, Wisconsin, USA, August 23-25 1999.
1378. L. Zhang, A. Cichocki, and S. Amari. Multichannel blind deconvolution of nonminimum phase systems using information backpropagation. In *Proc. of the Fifth International Conference on Neural Information Processing (ICONIP'99)*, pages 210–216, Perth, Australia, Nov. 16-20 1999.
1379. L. Zhang, A. Cichocki, and S. Amari. Natural gradient algorithm to blind separation of overdetermined mixture with additive noises. *IEEE Signal Processing Letters*, 6(11):293–295, 1999.
1380. L. Zhang, A. Cichocki, and S. Amari. Semiparametric approach to blind separation of dynamical systems. In *Proceedings of NOLTA'99*, pages 707–710, Hawaii, USA, Nov.28-Dec. 2 1999.
1381. L. Zhang, A. Cichocki, and S. Amari. Estimating function approach to multichannel blind deconvolution. In *IEEE APCCAS 2000*, pages 587–590, Tianjin, China, 2000.
1382. L. Zhang, A. Cichocki, and S. Amari. Kalman filter and state-space approach to multichannel blind deconvolution. In *Neural Network for Signal Processing X, Proc. of the IEEE Workshop on Neural Networks for Signal Processing, NNSP'2000*, pages 425–434, Sydney, Australia, December 11-13 2000. IEEE.
1383. L. Zhang, A. Cichocki, and S. Amari. Geometrical structures of FIR manifold and multichannel blind deconvolution. *Journal of VLSI Signal Processing*, pages 31–44, 2002.
1384. L. Zhang, A. Cichocki, and S. Amari. Multichannel blind deconvolution of nonminimum phase systems using filter decomposition. *submitted*, (April 5, 1999).
1385. L. Zhang, A. Cichocki, J. Cao, and S. Amari. Semiparametric approach to blind deconvolution. Technical report, The Institute of Electronics, Information & Communication Engineers of Japan (IEICE), 1999.
1386. Q. Zhang and Z. Bao. Dynamical system for computing the eigenvalue of positive definite matrix. *IEEE Trans. on Neural Network*, 6:790–794, 1995.
1387. C.-L. Zhao, Z.-M. Liu, and Z. Zhou. Blind equalization and parameters estimation of nonminimum phase channels using fourth order cumulants. In C.A.O. Zhigang, editor, *ICCT'96. 1996 International Conference on Communication Technology Proceedings*, pages 528–531 vol.1, Proceedings of International Conference on Communication Technology. ICCT '96, Beijing, China, 5-7 May 1996, 1996. IEEE.
1388. F. Zheng, S. Laughlin, and B. Mulgrew. Robust blind deconvolution algorithm: variance approximation and series decoupling. *Electronics Letters*, 26(13):921–923, June 1990.