

論文著述：

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1. B.S. Chen, B.K. Lee and S.C. Peng, "Maximum likelihood parameter estimation of f-arima processes using the genetic algorithm in the frequency domain," IEEE Transactions on Signal Processing, Vol. 50, No. 9, pp. 2208 - 2220, Sept. 2002.
2. B.S. Chen, S.C. Peng and K.C. Wang, "Traffic modeling, prediction, and congestion control for high-speed networks: A fuzzy AR approach," IEEE Trans. Fuzzy Systems, Vol. 8, No. 5, pp. 491-508, 2000.
3. S.C. Peng and B.S. Chen, "Deconvolution filter design via ℓ_1 optimization technique," IEEE Trans. Signal Processing, pp.736-746, 1997.
4. S.C. Peng, "An equalizer design for nonminimum phase channel via two-block H_∞ optimization technique," Signal Processing, pp. 1-13, 1996.
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7. B.S. Chen, S.C. Peng and B.W. Chiou, "IIR filter design via optimal Hankel-norm approximation," IEE Proc. Part G. pp.586-590, 1992.
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B. 研討會論文

1. 陳博現, 彭先覺, "在擾動數據傳輸系統中之韌性等化器設計:以觀測器為基礎之方法," 第一屆太空科技基礎研究討會, pp.100-103, 1993.
2. B.S. Chen, S.C. Peng and J.C. Lin, "Multivariable model reference control via minimax approach in time domain," The 14th National Symposium on Automatic Control, Hsinchu, Taiwan, pp. 333-342, 1990.

C. 專書及專書論文

1. B.S. Chen and S.C. Peng, 1996, "Stability analysis of digital Kalman filter," Control and Dynamic Systems, Academic Press.
2. B.S. Chen and S.C. Peng, 1995, "Stability analysis of digital Kaman Applications," Volume 73, Techniques in Discrete-Time Stochastic Control Systems, Academic Press, Inc.
3. B.S. Chen and S.C. Peng, 1993, "Robust stability analysis of Kalman filter under parametric and noise uncertainties," Approximating Kaman Filtering, World Scientific Publishing Co. Pte. Ltd. Press, pp. 179-192.

D.技術報告及其他等

1. 彭先覺, 2002, 『用於 DS-CDMA 系統中之 DSP-based 多重速率卡爾曼濾波器接收器之研製』, 國科會專題研究報告.
2. 彭先覺, 2002, 『高速網路交通流量控制(3/3)—子計劃一：高速網路流量永賽的強健性控制』, 國科會專題研究報告. _
3. 彭先覺, 2001, 『高速網路交通流量控制(2/3)—子計劃一：高速網路流量永賽的強健性控制』, 國科會專題研究報告. _
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