

\*王永宜教授

所有發表期刊論文及研討會論文

- [1] **Yung-Yi Wang\*** "Estimation of CFO and STO for an OFDM using general ICI self-Cancellation Precoding," Digital Signal Processing, Vol. 31, pp. 35-44, 2014.
- [2] **Yung-Yi Wang\*** and Wei-Wei Chen (學生), "A Kernel-Based ICI Self-Cancellation Scheme using Constrained Subcarrier Combiners," Signal Processing, Vol. 101, pp. 142-150, Aug. 2014.
- [3] Shih-Jen Yang, **Yung-Yi Wang\***, " A polynomial-rooting algorithm for CFO estimation in slow fading OFDM," Journal of the Franklin Institute-Engineering and Applied Mathematics, Vol. 351, Issue 6, pp. 3215-3230, 2014.
- [4] **Yung-Yi Wang\*** and Chong-An Lai (學生), "On the CFO Estimation of the OFDM: A Frequency Domain Approach," Journal of the Franklin Institute-Engineering and Applied Mathematics, Vol. 351, Issue 5, pp. 2489-2503, May 2014.
- [5] **Yung-Yi Wang\***, Shih-Jen Yang, and Po-Yuan Lee (學生), "An Improved PSP Scheme Using State Cooperation for Phase Synchronization," Journal of the Franklin Institute-Engineering and Applied Mathematics, Vol. 351, Issue 1, pp. 589-597, Jan. 2014.
- [6] **Yung-Yi Wang\*** and Po-Yuan Lee (學生), "The PS-BCJR Algorithm for Joint Frequency Synchronization and Data Decoding in TCM Systems," Journal of the Franklin Institute-Engineering and Applied Mathematics, Vol. 351, Issue 1, pp. 528-542, Jan. 2014  
**DOI: 10.1016/j.jfranklin.2013.09.002,**
- [7] **Yung-Yi Wang\***, "A Subspace-Based CFO Estimation Algorithm for General ICI Self-Cancellation Precoded OFDM Systems," IEEE Transaction on Wireless Communications, Vol. 12, No. 8, pp. 4110-4117, Aug. 2013.
- [8] **Yung-Yi Wang\***, "On the Convolutionally Encoded OFDM System with Symbol Time Offset," IEICE Trans. Communications, Vol. E95-B, No.09, pp.2931-2935, Sep. 2012.
- [9] **Yung-Yi Wang\***, Hsu-Jah Hu (學生), and Yen-Lin Chen (學生), "On the ICI Mitigation in OFDM Systems by Using the Segment-Based QR Decomposition," IEICE Trans. Communications, Vol. E95-B, No. 05, pp.1878-1881, May. 2012.
- [10] **Yung-Yi Wang\***, "A Low Complexity 1D-Based Successive GSC Structure

- for 2D Adaptive Beamformer Implementation,” IEICE Trans. Fundamentals, Vol. E94-A, No. 11, pp. 2448-2452, Nov. 2011
- [11] **Yung-Yi Wang\*** and Shu-Chi Huang (學生), “An ESPRIT-based Algorithm for 2D-DOA Estimation” IEICE Trans. Fundamentals, Vol. E94-A, No. 9, pp. 1847-1850, Sep. 2011.
- [12] **Yung-Yi Wang\***, “A Subspace-Based Optimization Strategy for Downlink Systems with Ill-Conditioned MIMO Channels” IEICE Trans. Fundamentals, Vol. E94-A, No. 8, pp. 1706-1714, Aug. 2011.
- [13] **Yung-Yi Wang\***, and Jiunn-Tsair Chen, “The Jiggle-Viterbi Algorithm for the RFID Reader Using Structured Data-Encoded Waveforms” IEICE Trans. Fundamentals, Vol. E-93A, No. 11, pp. 2108-2114, Nov., 2010.
- [14] **Yung-Yi Wang\***, and Jiunn-Tsair Chen, “A Baseband Signal Processing Scheme for Joint Data Frame Synchronization and Symbol Decoding for RFID Systems” EURASIP Journal on Advances in Signal Processing, vol. 2010, no. 9, Article ID 724260, 11 pages, 2010 doi:10.1155/2010/724260, <http://www.hindawi.com/journals/asp/2010/724260.html> (open access )
- [15] **Yung-Yi Wang\***, “An MLSE-Based Interrogator for EPC-Global Gen-II System” IEICE Trans. Fundamentals, Vol. E-93A, No. 8, pp.2199-2202, Aug. 2010.  
(SCI, EI; IF: 0.437; Rank: 179/229), NSC-97-2221-E-182-063
- [16] **Yung-Yi Wang\***, Shih-Jen Yang, and Jiunn-Tsair Chen, “Use Channel Reconfiguration Technique to Improve the Spatial Multiplexing Gain of MIMO Systems” IEICE Trans. Fundamentals, Vol. E-92A, No. 11, pp. 2651-2658, Nov., 2009
- [17] **Yung-Yi Wang\***, Wen-Hsien Fang, and Jiunn-Tsair Chen, “A Blind Space-Time Signal Decomposition Algorithm for Downlink MIMO DS-CDMA Receivers” IEICE Trans. Commun, Vol. E92-B, pp. 2131-2141, June, 2009.
- [18] **Yung-Yi Wang\***, Liang-Cheng Lee, Shih-Jen Yang, and Jiunn-Tsair Chen, “A Tree Structure One-Dimensional Based Algorithm for Estimating the Two-Dimensional Direction of Arrivals and Its Performance Analysis,” IEEE Trans. Antenna Propagation, Volume 56, Issue 1, pp.178-188, Jan. 2008.
- [19] **Yung-Yi Wang\***, Shih-Jen Yang, and Jiunn-Tsair Chen, “A Tree-Structured Blind Algorithm for Joint Parametric Channel Estimation and

- Non-Coherent Data Detection in an OFDM-CDMA Wireless System with Antenna Arrays," IEICE Trans. Fundamentals, Vol. E90-A, pp. 2377-2387, Nov., 2007.
- [20] **Yung-Yi Wang\*** and Ying-Lu, "Implementation of Notch Filters Using Subband Decomposition" IEICE Trans. Fundamentals, Vol. E90-A, pp.1224-1227, June, 2007.
- [21] **Yung-Yi Wang\*** "A Low Complexity Algorithm for Azimuth/Elevation Angle Estimation by using Alternate Subspace Projections" IEICE Trans. on Communications, Vol. E-90B, pp. 114-121, Jan. 2007.
- [22] Jen-Der Lin, Wen-Hsien Fang, **Yung-Yi Wang**, and Jiunn-Tsair Chen, "FSF MUSIC for Joint DOA and Frequency Estimation and its Performance Analysis," IEEE Transactions on Signal Processing, pp. 4529-4542, Vol. 54, Dec. 2006.
- [23] **Yung-Yi Wang\*** and Jiunn-Tsair Chen," The Pathwise Semi-Blind Algorithm for Downlink DS-CDMA Systems using Antenna Arrays," IEICE Transaction on Fundamentals, Vol. E-89A, pp. 3157-3160, Nov., 2006
- [24] **Yung-Yi Wang\***, Ying Lu, and Liang-Cheng Lee, "A Novel Wavelet-Based Notch Filter with Controlled Null Width" IEICE Transaction on Fundamentals, pp. 1069-1075, April, 2006. (SCI, EI; IF: 0.312; Rank: 157/206 ), NSC- 94-2213-E-129-002
- [25] Chih-Hung Lin, Hsin-Hung Chen, **Yung-Yi Wang** and Jiunn-Tsair Chen, "Dynamically Optimum Look-Up-Table Spacing for Power Amplifier Predistortion Linearization," IEEE Transaction On Microwave Theory and Techniques, pp. 2118-2127, May 2006. (SCI, EI)
- [26] **Yung-Yi Wang\***, Jiunn-Tsair Chen, and Ying Lu, "Joint Channel Parameter Estimation and Signal Detection for Downlink MIMO DS-CDMA Systems," IEICE Transaction on Communications, pp. 4229-4236, Nov. 2005. (SCI, EI; IF: 0.312; Rank: 157/206 )
- [27] Chao-Kai Wen, **Yung-Yi Wang**, and Jiunn-Tsair Chen, "A low complexity space-time OFDM multi-user system", IEEE Transaction on Wireless Communications, Vol. 4, May, 2005, pp. 998-1007. (SCI, EI; IF: 2.181; Rank: 11/67 )
- [28] **Yung-Yi Wang\***, Ying Lu, and Liang-Cheng Lee, " A Subspace Based Hierarchical Wireless Parameter Estimation Algorithm", Journal of St. John's University, pp.139-147, Aug. 2005.
- [29] **Yung-Yi Wang**, Jiunn-Tsair Chen, and Wen-Hsien Fang ," Joint estimation of DOA and delay using TST-MUSIC in a wireless channel,"

- IEEE Signal Processing Letters, vol.8, Feb. 2001, pp. 58 –60. (SCI, EI; IF: 0.722; Rank: 103/206 )
- [30] ***Yung-Yi Wang, Jiunn-Tsair Chen, and Wen-Hsien Fang***, "TST-MUSIC for joint DOA-delay estimation," IEEE Transaction on Signal Processing , Vol. 49, Apr. 2001 pp. 721 –729. (SCI, EI; IF: 1.57; Rank: 38/206 )
- [31] ***Yung-Yi Wang, and Wen-Hsien Fang***, " Wavelet-Based Broadband Beamformers with Dynamic Subband Selection," IEICE Transaction on Communs., Vol. E-83B, Apr. 2000, pp. 819 –826. (SCI, EI)

### Conference Papers

- |     |   |
|-----|---|
| [1] | Yung-Yi Wang, Shih-Jen Yang, and Hung-Chun Hsu, "A Constrained Subcarrier Combiner for General ICI Self-Cancellation Precoded OFDM," International High Speed Intelligent Communication (HSIC) Forum, Oct 26-28, 2013, Jiuzhai Valley, China. |
| [2] | 劉治辰，楊世任，王永宜"使用迴旋編碼 OFDM 系統之符元時間偏移研究"2013 <a href="#">台塑關係企業應用技術研討會</a> ， June, 2013   |
| [3] | 賴重安，楊世任，王永宜"基於 OFDM 系統子載波間干擾自消除機制研究"2013 <a href="#">台塑關係企業應用技術研討會</a> ， June, 2013   |
| [4] | 李柏園，楊世任，王永宜"一種使用狀態間合作之基於存活性處理機制"2013 全國網際網路暨通訊科技研討會， pp. 170-173，淡水， Apr., 2013.  |
| [5] | 王永宜，陳維偉"一種低複雜度二維進場角度估測演算法"2012 全國網際網路暨通訊科技研討會， pp. 208-212，淡水， Apr. 2009  |
| [6] | 王永宜，張逸正"基於分段 QR 分解與 THP 之 OFDM 系統子載波間干擾消除技術"2012 全國網際網路暨通訊科技研討會， pp. 203-207，淡水， Apr. 2009  |
| [7] | Yung-Yi Wang, and Wei-Wei Chen, "A Low Complexity 2D-DOA Estimation Algorithm using Signal Decomposition," International High Speed Intelligent Communication (HSIC) Forum, May, 2012, Nanjing, China.  |
| [8] | Yung-Yi Wang, and Yueh-Hsun Wu, "The Downlink MIMO Systems Using Multiple Base Stations for Key-hole Effect Alleviation," International High Speed Intelligent Communication (HSIC) Forum, May 30-31, 2011, Hong Kong.                        |
| [9] | 高明煜，李季道，王永宜,"EPC Global Gen 2 實體層電路訊號接收演算   |

- 法”2009 全國網際網路暨通訊科技研討會，Apr. 2009
- [10] 王永宜，李季道，高明煜，”使用參數型通道之多輸入多輸出無線通訊系統多工增益研究”2009 全國網際網路暨通訊科技研討會，Apr. 2009
- [11] Yung-Yi Wang, Shih-Jen Yang, and Jiunn-Tsair Chen, “An Iterative Optimization Strategy in Multiple-point-to-multiple-point-MIMO (M4) Mobile Communication Systems,” International High Speed Intelligent Communication (HSIC) Forum, May 13-14, 2010, Singapore.
- [12] 王永宜, 林鵬吉”基於 QR 分解之 OFDM 系統子載波間干擾消除技術”2011 全國網際網路暨通訊科技研討會，pp. 76-81，淡水， Apr., 2011.
- [13] 王永宜, 黃書麒”二維陣列天線之降階訊號處理-應用於進場角度估測”2011 全國網際網路暨通訊科技研討會，pp. 52-55，淡水， Apr., 2011.
- [14] Yung-Yi Wang, and Liang-Chen Lee “The Wavelet Based FIR Adaptive Notch Filter with Controlled Null Width” accepted by the 2006 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2006), Dec. 2006.
- [15] Yung-Yi Wang, “A Layer Structured Algorithm for Azimuth/Elevation Angle Estimation” accepted by the 2006 International Symposium on Antennas and Propagation, Nov., 2006, Singapore, pp. 1-4.
- [16] Yung-Yi Wang, Jiunn-Tsair Chen, and Ying-Lu, “A tree structure algorithm for joint blind channel estimation and multiuser signal detection for MIMO DS-CDMA systems” The Eighth International Symposium on Signal Processing and its Applications (ISSPA2005), Aug. 2005, Sydney, Austrial. pp. 1131-1135.
- [17] Yung-Yi Wang and Liang-Cheng Lee, “The Blind Channel Parameter Estimation Algorithm for Downlink DS-CDMA Systems with Multipath Fading Channels” The 20th Commemorative International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2005), July, 2005, Jeju, Korea. pp. 459-460.
- [18] Yung-Yi Wang, Jiunn-Tsair Chen, and Ying-Lu,, “ The joint space-time multiuser signal detection algorithms for downlink DS-CDMA systems,” 2005 IEEE International Conference on Wireless Communications, Honolulu, Hawaii. pp. 213-216.
- [19] Yung-Yi Wang, “The adaptive notch filter with controlled null width,” 2005 National Workshop on Internet and Communication Technology,

- Dec. 16, 2005, pp. 67-71.
- [20] Yung-Yi Wang, "The signal isolation strategy for data detection in a multipath fading channel," 2005 National Workshop on Internet and Communication Technology (NWICT 05), Dec. 16, 2005, pp. 63-66.
- [21] 王永宜、陸茵、李良誠,"一種用於 MIMO DS-CDMA 下傳系統之通道估測演算法" 2004 全國電信研討會, 基隆, 國立台灣海洋大學, Vol. 2, pp. 1001-1004.
- [22] Chang-Hua Lin, Ying Lu, Yu-Kang Lo, Kai-Jun Pai, and Yung-Yi Wang, "Control strategy for eliminating the temperature effect of piezoelectric transformer in the backlight module," the 30th annual conference of the IEEE industrial electronics society, Nov., 2004, Busan, Korea, pp. 34-39.
- [23] 王永宜、張峻菁"以可程式化晶片實現基於子空間之方位角估測演算法" 2004 全國網際網路暨通訊科技研討會, Nov. 2004, pp. 113-120.
- [24] 王永宜、華國綸、賴宗德"以 FPGA 實現迴旋碼編碼器電路" 2004 全國網際網路暨通訊科技研討會, Nov. 2004, p.p. 126-130
- [25] 王永宜、華國綸、賴宗德"非同步漢明碼編/解碼電路設計" 2004 全國網際網路暨通訊科技研討會, Nov. 2004, p.p. 131-135.
- [26] Yung-Yi Wang, Jiunn-Tsair Chen; Wen-Hsien Fang, 2001. (SPAWC '01) "Joint estimation of the DOA and delay based on the TST-ESPRIT in a wireless channel" 2001 IEEE third workshop on signal processing advances in wireless communications, p.p. 302 -305.