一、 期刊論文

- 1. Dah-Chung Chang*, Po-Kuan Shih, "Cumulants-based modulation classification technique in multipath fading channels", IET Communications, Vol. 6, no. 9. pp.828-835, Mar 2015.
- 2. W.-C. Pao, W.-T. Lou, Y.-F. Chen*, D.-C. Chang, "Resource allocation for multiple input multiple output-orthogonal frequency division multiplexing -based space division multiple access systems" IET Communications, Vol. 18, no. 8. pp.3424-3434, Dec 2014.
- 3. D.-C. Chang and R.-Y. Wu, "Despread-Ahead Cyclic-Prefix CDMA Receiver With Compressive Sensing CIR Estimation," IET Communications, Vol. 8, no. 8. pp.1425-1435, May 2014.
- 4. Dah-Chung Chang*, Meng-Wei Fang, "Bearing-Only Maneuvering Mobile Tracking With Nonlinear Filtering Algorithms in Wireless Sensor Networks", IEEE Systems Journal, Vol. 8, no. 1, March 2014.
- 5. D.-C. Chang* and F.-T. Chu, "Feedforward Active Noise Control with a New Variable Tap-Length and Step-Size Filtered-X LMS Algorithm", IEEE Transactions on Audio Speech and Language Processing, Vol. 22, no. 2, pp. 542 - 555, Feb 2014.
- 6. Dah-Chung Chang*, Fei-Tau Chu, "A New Variable Tap-Length and Step-Size FxLMS Algorithm", IEEE SIGNAL PROCESSING LETTERS, Vol. 20, no. 11, pp.1122-1125, Nov 2013.
- 7. Dah-Chung Chang*, Da-Lun Guo, "Spatial-Division Multiplexing MIMO Detection Based on a Modified Layered OSIC Scheme", IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, Vol. 12, no. 9, pp. 4258-4271, Sept 2013.
- 8. W.-C. Pao, Y.-F. Chen, and D.-C. Chang, "Constant Power Allocation Methods for SC-FDMA Systems," IEICE Transactions on Communications, Vol. E93-B, no. 3, pp. 771-775, Mar. 2010.
- 9. D.-C. Chang and H.-C. Chiu, "A Stabilized Multichannel Fast RLS Algorithm for Adaptive Transmultiplexer Receivers," Circuits, Systems & Signal Processing, Springer, Vol. 28, no. 6, pp.845-867, Dec. 2009.
- 10. D.-C. Chang, "Least Squares/Maximum Likelihood Methods for the Decision-Aided GFSK Receiver," IEEE Signal Processing Letters, Vol. 16, no. 6, pp. 517-520, June 2009.
- 11. D.-C. Chang, "Effect and Compensation of Symbol Timing Offset in OFDM Systems With Channel Interpolation," IEEE Trans. Broadcasting, Vol. 54, no. 4, pp.761-770, Dec. 2008.
- 12. D.-C. Chang, W.-R. Wu, and D. L. Lee, "A Multicarrier Communication System with the Adaptive Transmultiplexer Receiver," International Journal of Electrical Engineering, Vol. 14, no. 6, pp.409-420, Dec. 2007.
- 13. W.-T. Lin and D.-C. Chang, "Adaptive Carrier Synchronization Using Decision-Aided Kalman Filtering Algorithms," IEEE Trans. Consumer Electronics, Vol. 53, no. 4, pp. 1260-1267, Nov. 2007.

二、 研討會論文

- 1. Po-Wei Chiang, Dah-Chung Chang, "Modified median FxLMS for impulsive noise reduction in ANC", 2015 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA), Dec. 2015.
- 2. Dah-Chung Chang, "Time-of-Arrival Motion Positioning with the New Concatenated IMM Method", 2015 IEEE Globecom Workshops, Dec. 2015.
- 3. D.-C. Chang and M.-W. Fang, "Interacting Multiple Model Particle Filtering Using New Particle Resampling Algorithm," IEEE Global Communications Conference (GLOBECOM 2014), Austin, TX, Dec. 2014.
- 4. D.-C. Chang, "Localization of Moving Terminals with Nonlinear Angle-of-Arrival Estimation Methods," IEEE 11th VTS Asia Pacific Wireless Communications Symposium (APWCS 2014), Ping Tung, Taiwan, Aug. 2014.
- 5. D.-C. Chang and M.-W. Fang, "AOA Target Tracking with New IMM PF Algorithm," IEEE 57th Int'l Midwest Symposium on Circuits & Systems (MWSCAS 2014), College Station, TX, Aug. 2014.
- 6. Dah-Chung Chang*, Fei-Tau Chu, "Active noise cancellation with a new variable tap length and step size FXLMS algorithm", 2013 IEEE International Conference on Multimedia and Expo (ICME), July 2013.
- 7. Dah-Chung Chang, "The MIMO OFDM receiver with mismatched transmit carrier frequency offsets", 2012 12th International Conference on ITS Telecommunications (ITST), Nov 2012
- 8. P. Shih and D.-C. Chang, "An Automatic Modulation Classification Technique Using High-Order Statistics for Multipath Fading Channels," Workshop on Transceiver Design for ITS in conjunction with (IEEE) 11th International Conference on ITS Telcommunications, Saint-Petersburg, Russia, Aug. 2011.
- D.-C. Chang, C.-M. Wu and C.-S. Lin, "Modified CMA Method and Implementation for Time-Varying OFDM Channel Estimation," Workshop on Transceiver Design for ITS in conjunction with (IEEE) 11th International Conference on ITS Telcommunications, Saint-Petersburg, Russia, Aug. 2011.
- C.-P. Tsu and D.-C. Chang, "Modulation Classification for M-ary CPM Signals," IEEE International Conference on Computer Communications and Networks (ICCCN 2011), Maui, Hawaii, July-Aug., 2011.
- D.-C. Chang and S.-K. Wang, "Modified Decision Feedback Channel Estimation Method for Mobile OFDM Systems," IEEE International Conference on Computer Communications and Networks (ICCCN 2011), Maui, Hawaii, July-Aug., 2011.
- 12. D.-C. Chang, R.-Y. Wu, and Y.-F. Chen, "A Decision Feedback CP-Assisted CDMA Scheme Using Despreading Before Equalization," IEEE International Conference on Communication (ICC 2011), Kyoto, Japan, June, 2011.
- 13. C.-C. Cheng, D.-C. Chang, and Y.-F. Chen, "Modified Decision Feedback Method for Mobile OFDM Channel Estimation," 21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2010), Istanbul, Turkey, Sep. 2010.

- D.-C. Chang and T.-H. Li, "MMSE Solution for OFDMA Systems with Carrier Frequency Offset Correction," IEEE 71th Vehicular Technology Conference (VTC 2010-Spring), Taipei, Taiwan, May 2010.
- 15. D.-C. Chang and Y.-C. Hsu, "ICI Compensation for Interleaved OFDMA with Carrier Frequency Offsets," IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB 2010), Shanghai, China, Mar. 2010.
- D.-C. Chang, Y.-H. Lai, and Y.-L. Lai, "Interleaved OFDMA Systems with Adaptive Common Carrier Frequency Offset Correction," IEEE International Conference on Communications, Circuits and Systems (ICCCAS 2009), San Jose, CA, USA, July 2009.
- 17. D.-C. Chang, Y.-H. Lai, and Y.-C. Hsu, "Effect of Common Carrier Frequency Offset at the OFDMA Receiver," 2009 IEEE International Symposium on Circuits and Systems (ISCAS 2009), Taipei, Taiwan, May 2009.
- W.-C. Pao, H.-C. Chiu, D.-C. Chang, and Y.-F. Chen, "Recursive Parameter Estimation for Regression Channel Model in Pilot-Aided OFDM Systems," IEEE Wireless Communications and Networking Conference (WCNC 2009), Budapest, Hungary, Apr. 2009.
- 19. S.-K. Wang and D.-C. Chang, "Pilot-Aided Channel Estimation Methods for ICI Reduction in Mobile OFDM Systems," IEEE Consumer Communications and Networking Conference (CCNC 2009), Las Vegas, Nevada, USA, Jan. 2009.
- C.-W. Huang, S.-R. Wang, T.-H. Li, Y.-C. Hsu, and D.-C. Chang, "Design of a WLAN OFDM System with Semi-Blind Channel Tracking," The 19th VLSI Design/CAD Symposium, Kenting, Taiwan, Aug. 2008.
- 21. S.-H. Lee, C.-C. Cheng, and D.-C. Chang, "Modified Decision Feedback Methods for OFDM Channel Tracking," IEEE International Conference on Communications, Circuits and Systems (ICCCAS 2008), Xiamen, China, May 2008.
- L.-W. Hsu and D.-C. Chang, "Design of a 2X2 MIMO OFDM Transceiver with Correction of Different Carrier Frequency Offsets at Transmitter Antennas," The 18th VLSI Design/CAD Symposium, Hualien, Taiwan, Aug. 2007.
- H.-C Chiu and D.-C. Chang, "Model-Based Channel Estimation for OFDM With Adaptive Model Parameter Estimation," IEEE 4th VTS Asia Pacific Wireless Communications Symposium (APWCS 2007), Hsinchu, Taiwan, Aug. 2007.
- C.-C Cheng and D.-C. Chang, "Improved Time-Domain Channel Tracking Algorithms for Mobile OFDM Applications," IEEE 4th VTS Asia Pacific Wireless Communications Symposium (APWCS 2007), Hsinchu, Taiwan, Aug. 2007.

三、 專書或專章

1. 張大中,"數據與數位通訊系統原理", 全華科技圖書, 民國 85 年

四、 技術報告

1. LTE-A 關鍵技術研究-異質網路與多天線技術-子計畫三:LTEA 系統多天線傳收技術研究, 民國 102 年

- 2. LTE-A 關鍵技術研究-異質網路天線技術-子計畫三:LTEA 系統多天線傳收技術研究, 民國 101 年
- 3. 用於 OFDMA 多用戶載波同步方法之 MMSE 分析與行動通道等化方法, 民國 100 年
- 4. 提升頻寬效益之 SFBC MIMOOFDM 無線網路通道估計方法, 民國 99 年
- 5. 多輸入多輸出單載波分頻多工存取系統上行鏈路之通道估測與相關傳收技術研究, 民國 98 年

五、 專利

1. GFSK 數位解調器及其訊號同步方法,中華民國發明專利, I321935, 2010/3/11.