

五、著作目錄(建議呈現與計畫相關之著作目錄，頁數以2頁為限)：

Journal Papers

1. **R. Y. Wei**, “Low-complexity differential spatial modulation schemes for a lot of antennas,” *IEEE Access*, vol. 8, pp. 63725-63734, 2020.
2. **R. Y. Wei** and T. Y. Lin, “Low-complexity differential spatial modulation,” *IEEE Wireless Communications Letters*, vol. 8, no. 2, pp. 356-359, Apr. 2019.
3. C. L. Lin, T. S. Lin and **R. Y. Wei**, “Bit labeling and code searches for BICM-ID using 16-DAPSK,” *IEICE Transactions on Communications*, vol. 101E-B, no.12, pp. 2380-2387, Dec. 2018.
4. **R. Y. Wei** and X. J. Wang, “Differential 16-QAM and 16-APSK for uplink massive MIMO systems,” *IEEE Wireless Communications Letters*, vol. 7, no. 2, pp. 170-173, Apr. 2018.
5. T. S. Lin and **R. Y. Wei**, “Unitary space-time modulation using nonconstant-energy signals,” *International Journal of Electrical Engineering*, vol. 23, no. 1, Jan. 2016.
6. **R. Y. Wei**, J. A. Ritcey and B. S. Lu, “TCM with differential encoding: set partitioning, trellis designs and distance analysis,” *IEEE Transactions on Communications*, vol. 63, no. 8, pp. 2776-2787, Aug. 2015.
7. **R. Y. Wei** and L. T. Chen, “Further results on differential encoding by a table,” *IEEE Transactions on Communications*, vol. 60, no. 9, pp. 2580-2590, Sep. 2012.
8. **R. Y. Wei** and C. C. Huang, “Noncoherently non-catastrophic trellis coded modulation,” *IEEE Transactions on Communications*, vol. 59, no. 2, pp. 369-375, Feb. 2011.
9. **R. Y. Wei**, “Differential encoding by a look-up table for quadrature-amplitude modulation,” *IEEE Transactions on Communications*, vol. 59, no. 1, pp. 84-94, Jan. 2011.
10. **R. Y. Wei**, T. S. Lin and S. S. Gu, “Noncoherent block-coded TAPSK and 16QAM using linear component codes,” *IEEE Transactions on Communications*, vol. 58, no. 9, pp. 2493-2498, Sep. 2010.
11. **R. Y. Wei**, S. S. Gu and T. C. Sue, “Noncoherent block-coded TAPSK,” *IEEE Transactions on Communications*, vol. 57, no. 11, pp. 3195-3198, Nov. 2009.
12. **R. Y. Wei** and C. C. Huang, “Bandwidth-efficient noncoherent trellis-coded MPSK,” *IEEE Transactions on Communications*, vol. 57, no. 10, pp. 2853-2856, Oct. 2009.
13. **R. Y. Wei**, Y. W. Hsu and C. C. Pan, “A low-complexity noncoherent iterative space-time demodulator,” *IEEE Transactions on Communications*, vol. 57, no. 10, pp. 2895-2898, Oct. 2009.
14. **R. Y. Wei** and Y. M. Chen, “Further results on noncoherent block-coded MPSK,” *IEEE Transactions on Communications*, vol. 56, no. 10, pp. 1616-1625, Oct. 2008.
15. Y. L. Ueng, Y. L. Wu and **R. Y. Wei**, “Concatenated space-time block coding with trellis coded modulation using a delay processor,” *IEEE Transactions on Wireless Communications*, vol. 6, no. 12, pp. 4452-4463, Dec. 2007.
16. **R. Y. Wei** and Y. L. Wu, “On trellis coded noncoherent space-time modulation,” *IEEE Transactions on Wireless Communications*, vol. 6, no. 7, pp. 2432-2437, July 2007.
17. **R. Y. Wei** and L. T. Chen, “Comments on ‘A noncoherent coded modulation for 16QAM’,” *IEEE Transactions on Communications*, vol. 54, no. 7, pp. 1347-1348, July 2006.
18. Y. L. Wu and **R. Y. Wei**, “A unitary space-time modulation scheme with multistage decoding,” *IEICE Transactions on Communications*, vol. E89-B, no. 6, pp. 1869-1872, June 2006.
19. **R. Y. Wei**, “Noncoherent block-coded MPSK,” *IEEE Transactions on Communications*, vol. 53, no. 6, pp. 978-986, June 2005.

20. Y. L. Wu and **R. Y. Wei**, “Noncoherent sequence detection for trellis coded unitary space-time modulation,” *International Journal of Electrical Engineering*, vol. 12, pp. 85-92, Feb. 2005.
21. Y. L. Wu, **R. Y. Wei** and J. D. Chen, “Unitary space-time coded 8PSK,” *IEICE Transactions on Communications*, vol. E87-B, no. 10, pp. 3085-3087, Oct. 2004.
22. **R. Y. Wei** and M. C. Lin, “Noncoherent detection for trellis coded MPSK,” *IEEE Transactions on Communications*, vol. 49, no. 5, pp. 765-768, May 2001.
23. **R. Y. Wei**, “Decision feedback differential detection for 16DAPSK using knowledge of signal power,” *Electronics Letters*, vol. 37, no. 9, pp. 573-575, Apr. 2001.
24. **R. Y. Wei** and M. C. Lin, “On multilevel coded MPSK for the Rayleigh fading channel,” *IEEE Transactions on Vehicular Technology*, pp. 840-846, May 1999.
25. **R. Y. Wei** and M. C. Lin, “Noncoherent-coded modulation constructed from conventional trellis-coded modulation,” *IEEE Communications Letters*, pp. 260-262, Sept. 1998.
26. **R. Y. Wei** and M. C. Lin, “Modified decision feedback differential detection for differentially encoded 16APSK signals,” *Electronics Letters*, vol. 34, no. 4, pp. 336-337, Feb. 1998.
27. **R. Y. Wei** and M. C. Lin, “Differential phase detection using recursively generated phase references,” *IEEE Transactions on Communications*, vol. 45, no. 12, pp. 1504-1507, Dec. 1997.

Conference Papers (in part)

1. **R. Y. Wei** and T. Y. Feng, “Constellation design of differential MPSK for two-phase two-way relaying,” *IEEE VTS Asia-Pacific Wireless Communications Symposium (APWCS)*, Hsinchu, Taiwan, Aug. 2018.
2. **R. Y. Wei**, W. Y. Hsu and J. A. Ritcey, “Differential encoding of 16APSK for BICM-ID,” *Asia-Pacific Conference on Communications (APCC)*, Kyoto, Japan, Oct. 2015.
3. **R. Y. Wei** and J. A. Ritcey, “Differential trellis coded modulation with state dependent mappings,” *Asilomar Conference on Signals, Systems, and Computers*, CA, USA, Nov. 2014.
4. **R. Y. Wei**, C. J. Lin, Y. M. Wu and P. E. Sheih, “Further results on differential encoding by a table,” in *Proc. International Wireless Communications and Mobile Computing Conference (IWCMC)*, Istanbul, July 2011.
5. **R. Y. Wei**, “Differential encoding for quadrature-amplitude modulation,” in *Proc. IEEE Vehicular Technology Conference (VTC) Spring*, Taipei, May 2010.
6. **R. Y. Wei** and C. C. Huang, “Noncoherently non-catastrophic trellis coded QAM,” in *Proc. IEEE Vehicular Technology Conference (VTC) Spring*, Taipei, May 2010.
7. **R. Y. Wei**, T. S. Lin and S. S. Gu, “Block-coded 16QAM for noncoherent decoding,” to appear in *Proc. IEEE Wireless Communications and Networking Conference (WCNC)*, Sydney, Apr. 2010.
8. **R. Y. Wei** and C. C. Huang, “Noncoherent Ungerboeck-type trellis-coded MPSK,” in *Proc. Asia-Pacific Conference on Communications (APCC)*, Tokyo, Oct. 2008.
9. **R. Y. Wei**, T. C. Sue, H. H. Wang and C. S. Wang, “Noncoherent block-coded QAM,” in *Proc. IEEE International Conference on Communications (ICC)*, Glasgow, June 2007.
10. **R. Y. Wei**, Y. M. Chen and C. C. Kuo, “Further results on noncoherent block-coded MPSK,” in *Proc. IEEE International Conference on Communications (ICC)*, Istanbul, June 2006.
11. **R. Y. Wei**, “Noncoherent space-time block coded modulation,” in *Proc. IEEE International Conference on Communications (ICC)*, Paris, June 2004, pp. 921-925.