

PUBLICATIONS OF T.S. NG (2000-present)

(a) Book Chapters and Monographs:

- Y.C. Wu, J. Chen, T.S. Ng and E. Serpedin, "Multi-user frequency offsets estimation in OFDMA uplink systems", in *Orthogonal frequency division multiple access – Fundamentals and Applications*, (Ed. T. Jiang, L. Song and Y. Zhang), CRC Press, 2010.
- Y.C. Wu, J. Chen, T.S. Ng and E. Serpedin, "Training sequence design in multi-user OFDM systems", in *Orthogonal frequency division multiple access – Fundamentals and Applications*, (Ed. T. Jiang, L. Song and Y. Zhang), CRC Press, 2010.
- K.L. Noh, Y.C. Wu, K. Qaraqe and E. Serpedin, "Time synchronization for wireless sensor networks", in *Adaptive signal processing in wireless communications*, (Ed. M. Ibnkahla), CRC Press, 2008.
- N. Wong, V. Balakrishnan and T.S. Ng, "A Second-Order Cone Bounding Algorithm for Robust Minimum Variance Beamforming", *Lecture Notes in Computer Science*, Springer-Verlag, Vol 3355 / 2005, p. 223 -247 (Eds: Roderick Murray-Smith, Robert Shorten), 2005.
- J.Wang and T.S. Ng (ed.), *Advances in enhanced technologies for wireless communications* Archtech House, March, 2002 (This book is on the top of the 10 best selling list for March 2002 in Archtech House). This book has been translated into Chinese and published by the Publishing House of Electronics Industry, 2003.
- J.Wang and T.S. Ng (ed.), *Advances in enhanced technologies for wireless communications* Archtech House, March, 2002.
- Y.C. Wu, K.W. Yip and T.S. Ng, 'Software radio: a prospective technology for future broadband communication systems', in J. Wang and T.S. Ng (ed.) *Advances in enhanced technologies for wireless communications*, Chapter 7, Archtech House, March, 2002.

(b) Patents

- Aiqun Hu and T.S. Ng, 'An apparatus for fast adjustment of chip clock timing error', P.R.C. patent ZL 98 1 20500.3, issued 14/08/02.
- Aiqun Hu, T.S. Ng and D. Guo, 'Broad-Band MPSK spread spectrum communications receiver with carrier recovery and tracking using weighted correlation techniques', U.S. Patent 6,704,344 B1, issued March 9, 2004.
- Donghai Guo, Aiqun Hu and T.S. Ng, 'MPSK spread spectrum communications receiver with carrier recovery and tracking using weighted correlation techniques', U.S. Patent 6,831,942 B2 (Application No. 09/761,397, issued Dec 14, 2004.
- T.S. Ng, Chin Long Cheng and K.W. Yip, 'All-lag spread spectrum correlator', U.S. Patent 6,868,115 B1, issued March 15, 2005.
- T.S. Ng, Chin Long Cheng and K.W. Yip, 'All-lag spread spectrum correlators with rotating references', U.S. Patent 6,847,676 B1, issued Jan 25, 2005.

Arumugam Nallanathan, T.S. Ng and S.C. Chan, 'Code division multiple access communication system using overlapping spread sequences', U.S. Patent, 6728295 B1, issued April 27, 2004.

K.W. Yip, Y.C. Wu and T.S. Ng, 'Multiplierless correlators for HIPERLAN/2 and IEEE 802.11A wireless local area networks', U.S. Patent, 7,395,291 B2, issued August 25, 2008.

(c) **Refereed Journals:**

1. H.Z. Wang, S.D. Ma and T.S. Ng, "On performance of cooperative communication systems with spatial random relays", accepted for publication, *IEEE Transactions on Communications*.
2. Lanlan He, Yik-Chung Wu, Shaodan Ma, Tung-Sang Ng and H. Vincent Poor, "Superimposed Training Based Channel Estimation and Data Detection for OFDM Amplify-and-Forward Cooperative Systems under High Mobility", accepted for publication, *IEEE Transactions on Signal Processing*.
3. Lanlan He, Shaodan Ma, Yik-Chung Wu, Yiqing Zhou, Tung-Sang Ng and H. Vincent Poor, "Pilot-Aided IQ Imbalance Compensation for OFDM Systems Operating over Doubly Selective Channels", *IEEE Transactions on Signal Processing*, 59(4), 2223-2233, May 2011.
4. H.Z. Wang, S.D. Ma, T.S. Ng and H. Vincent Poor, "A General Analytical Approach for Opportunistic Cooperative Systems with Spatial Random Relays", submitted for publication, *IEEE Transactions on Wireless Communications*.
5. C.W. Ng, N. Wong, H.K.H. So and T.S. Ng, "On IIR-based bit-stream multipliers", *International Journal of Circuits and Applications*, 39(2), 149-158, Feb 2011.
6. G. Zheng, K.K. Wong and T.S. Ng, "Robust Beamforming in Cognitive Radio", *IEEE Transactions on Wireless communications*, 9(2), 570-576, February, 2010.
7. Lanlan He, Shaodan Ma, Yik-Chung Wu and Tung-Sang Ng, "Semiblind Iterative Data Detection for OFDM Systems with CFO and Doubly Selective Channels", *IEEE Transactions on Communications*, vol. 58(12), pp. 3491-3499, Dec. 2010
8. Chengwen Xing, Shaodan Ma, Yik-Chung Wu and Tung-Sang Ng, "Transceiver Design for Dual-Hop Non-regenerative MIMO-OFDM Relay Systems Under Channel Uncertainties", *IEEE Transactions on Signal Processing*, vol. 58(12), pp. 6325-6339, Dec. 2010.

9. Y.Q. Zhou and T.S. Ng, "Performance analysis on MIMO-OFCDM systems with multi-code transmission", *IEEE Transactions on Wireless Communications*, 8(9), 4426-4433, September, 2009 .
10. W. Peng, S.D. Ma, T.S. Ng, TS and JZ Wang, "A Novel Analytical Method for Maximum Likelihood Detection in MIMO Multiplexing Systems", *IEEE Transactions on Communications*, 57(8): 2264-2268, September, 2009
11. S.D.Ma, X.Y. Pan, G.H. Yang and T.S. Ng, "Blind symbol synchronization based on cyclic prefix for OFDM", *IEEE Transactions on Vehicular Technology*, 58(4), 1746-1751, April, 2009.
12. G. Zheng, K.K. Wong and T.S. Ng, "Energy-efficient multiuser SIMO: achieving probabilistic robustness with Gaussian channel uncertainty", *IEEE Transactions on communications*, 57(6), 1866-1878, June 2009.
13. Z. Chen, Y.P. Zhang, A.Q. Hu and T.S. Ng, "Bit-error rate analysis of UWB radio using BPSK modulation over inter-chip radio channels for wireless chip area networks", *IEEE Transactions on Wireless communications*, 8(5), 2379-2387, May, 2009.
14. G. Zheng, S.D. Ma, K.K. Wong and T.S. Ng. "Robust Beamforming in the MISO Downlink with Quadratic Channel Estimation and Optimal Training", *IEEE Transactions on Wireless communications*, 8(3), 1067-1072, March, 2009.
15. Y.Q. Zhou, J. Wang and T.S. Ng, "Downlink transmission of Broadband OFCDM systems – Part V: code assignment", *IEEE Transactions on Wireless Communications*, 7(11), 4546-4557, Nov. 2008.
16. Y.Q. Zhou and T.S. Ng, "MIMO-OFCDM systems with joint iterative detection and optimal power allocation", *IEEE Transactions on Wireless Communications*, 7(12), 5504-5516, Part 2, Dec. 2008.
17. S.D. Ma and T.S. Ng, "Semi-blind time-domain equalization for MIMO-OFDM systems", *IEEE Transactions on Vehicular Technology*, 57(4), 2219-2227, July, 2008.
18. C. W. Ng, N. Wong, and T. S. Ng, "Quad-level Bit-stream Adders and Multipliers with Efficient FPGA Implementation", *IEE Electronics Letters*, 44(12), 722-723, June 5, 2008.
19. J.W. Chen, Y.C. Wu, S.D. Ma and T.S. Ng, "Joint CFO and Channel Estimation for Multiuser MIMO-OFDM Systems with Optimal Training Sequences", *IEEE Transactions on Signal Processing*, 56(8), 4008-4019, Aug. 2008.
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35. S. Pan and T.S. Ng, "A multi-code CDMA slotted ALOHA system with sub-packet channel load sensing protocol", *Chinese Journal of Electronics* 15(5): 527-532, July, 2006.
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(d) Refereed Conference Papers:

1. Lanlan He, Shaodan Ma, Yik-Chung Wu and Tung-Sang Ng, "Partial Data-Dependent Superimposed Training Based Iterative Channel Estimation for OFDM Systems over Doubly Selective Channels", *IEEE Global Communications Conference (GlobeCom'2010)*, 6-11 Dec., 2010, Miami, U.S.A.
2. Lanlan He, Shaodan Ma, Yik-Chung Wu and Tung-Sang Ng, "IQ Imbalance Compensation: A Semi-Blind Method for OFDM Systems in Fast Fading Channels", *Proceedings of 2010 IEEE Asia Pacific Conference on Circuits and Systems (APCCAS'2010)*, Dec. 6-9, 2010, Kuala Lumpur, Malaysia.
3. Shaodan Ma, Chengwen Xing, Yijia Fan, Yik-Chung Wu, Tung-Sang Ng and H. Vincent Poor, "Iterative Transceiver Design for MIMO AF Relay Networks with Multiple Sources", accepted by *IEEE Military Communications Conference (MILCOM'2010)*, 11 Oct – 03 Nov, 2010, San Jose, U.S.A. **(Invited paper)**
4. Chengwen Xing, Shaodan Ma, Yik-Chung Wu, Tung-Sang Ng and H. Vincent Poor, "Linear Transceiver Design for Amplify-and-Forward MIMO Relay Systems under Channel Uncertainties", *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC'2010)*, 18-21 April, 2010, Sydney, Australia.
5. Lanlan He, Shaodan Ma, Yik-Chung Wu and Tung-Sang Ng, "Semi-Blind CFO, Channel Estimation and Data Detection for OFDM Systems over Doubly Selective Channels", *Proceedings of IEEE International Symposium on Circuits and Systems (ISCAS'2010)*, 30 May -2 June, 2010, Paris, France.
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9. Yiqing Zhou and T.S. Ng, "Recent advances in MIMO-OFCDM", Proceedings, 7th International Conference on Information, Communications and Signal Processing (ICICS 2009), Macau, 7-10 December, 2009, **(invited paper)**.
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11. Hongzheng Wang, Shaodan Ma, and Tung-Sang Ng, "Cooperative Communications System With Spatially Random Relays", *Proceedings IEEE Personal, Indoor and Mobile Radio Communications Symposium (PIMRC'2009)*, 13-16 Sept., 2009, Tokyo, Japan.
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13. Shaodan Ma, and Tung-Sang Ng, "Two-Step Signal Detection for MIMO-OFDM Systems without Cyclic Prefix", *Proceedings, IEEE Wireless Communications and Networking conference (WCNC'2009)*, Budapest, Hungary, 5-8 April 2009.
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It is based on the sixth edition of the Publication Manual of the American Psychological Association (APA Publication Manual). For additional information and examples, consult a copy of the handbook that is available in the in the Laupus Library Reference Area (Call #: WZ 345 P976 2010). Why cite sources? When writing a paper, we often build upon the information and ideas of others. When information is borrowed from others, we must give them credit. Citing sources accomplishes the following This report contains only published papers and maps; numerous abstracts produced for presentations at scientific meetings have not been included. Publications are included based on date of publication with no attempt to assign them to Fiscal Year. 3. Volcano Hazards Bibliography 1999-2003. Adleman, Jennifer, 2002, The great eruption of 1912: Alaska Park Science, Winter, p. 4-11, available at <http://www.nps.gov/akso/AKScience2002.pdf>. The following is an annotated bibliography of recent books wholly or substantially devoted to Sir Walter Scott. The bibliography draws primarily on ABELL (Annual Bibliography of English Language & Literature), Bibliography of Scotland, OCLC WorldCat, the General Catalogues of The British Library and National Library of Scotland, and other national library catalogues and union databases accessible via The European Library portal.Â Avoiding jargon, and moving briskly, it tackles the vexed question of Scott's 'circumbendibus' style head on, suggesting that it is actually one of the most exciting aspects of his fiction: indeed, what Ian Duncan has called the 'elaborately literary narrative', at first sight a barrier, is in a sense what the novels are primarily 'about'.