蔡育仁 Publication List

(A) 期刊論文

- 1. <u>Ywh-Ren Tsai</u> and Jin-Fu Chang, "Using Frequency Hopping Spread Spectrum Technique to Combat Multipath Interference in a Multiaccessing Environment," *IEEE Transactions on Vehicular Technology*, pp. 211-222, May 1994. (SCI, EI) (Impact Factor 1.488, 17/76) (SCI: 16 citations/Self-cited: 0)
- 2. <u>Ywh-Ren Tsai</u> and Jin-Fu Chang, "Using Spread Spectrum Techniques to Combat Multipath Interference in Mobile Random Accessed Networks," *IEEE Transactions on Communications*, pp. 329-337, Feb./Mar./Apr. 1995. (SCI, EI) (Impact Factor 1.512, 15/76) (SCI: 1 citation/Self-cited: 0)
- 3. <u>Ywh-Ren Tsai</u> and Jin-Fu Chang, "Feasibility of Adding a Personal Communications Network to an Existing Fixed-Service Microwave System," *IEEE Transactions on Communications*, pp. 76-83, Jan. 1996. (SCI, EI) (Impact Factor 1.512, 15/76) (SCI: 20 citations/Self-cited: 1)
- 4. <u>Ywh-Ren Tsai</u> and Horng-Shyang Liaw, "A Study of PACS Personal Communication Service System Co-channel Interference," *TL Technical Journal*, pp. 421-434, June 1996.
- 5. Shiann-Jau Tsai and <u>Ywh-Ren Tsai</u>, "Co-channel and Adjacent Channel Interference on Trunked Radio Systems," *Chunghwa Telecom Technical Quarterly Journal*, pp. 132-143, May 1997.
- 6. Chyi-Nan Wu, Ywh-Ren Tsai and Jin-Fu Chang, "A Quality-Based Birth-and-Death Queueing Model for Evaluating the Performance of an Integrated Voice/Data CDMA Cellular System," *IEEE Transactions on Vehicular Technology*, pp. 83-89, Jan. 1999. (SCI, EI) (Impact Factor 1.488, 17/76) (SCI: 17 citations/Self-cited: 0)
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- 8. Shiuh-Jeng Wang and Yuh-Ren Tsai, "Private Communications in Hierarchical Group-Mobile Radio Systems," *Journal of Discrete Mathematical Science and Cryptography*, vol. 7, pp. 187-201, August 2004. (EI) (NSC-95-2221-E-015-003)
- 9. <u>Yuh-Ren Tsai</u>, and Kai-Jie Yang, "Coverage Shrinking and Available Data Rate Variations for 3G CDMA Mobile Cellular Systems," *IEICE Transactions on Communications*, vol. E89-B, no. 3, pp. 739-747, Mar. 2006. (SCI, EI) (Impact Factor 0.359, 53/76) (SCI: 1 citation/Self-cited: 1) (NSC 94-2213-E-007-008)
- Yuh-Ren Tsai, and Cheng-Ju Chang, "SIM-based Subscriber Authentication Mechanism for Wireless Local Area Networks," *Computer Communications*, vol. 29, issue 10, pp. 1744-1753, June 2006. (SCI, EI) (Impact Factor 0.933, 36/76) (SCI: 3 citations/Self-cited: 0) (NSC 94-2752-E-007-003-PAE)
- 11. Yuh-Ren Tsai, "Spatial Correlation Models for Total Co-channel Interference and Carrier-to-Interference Ratio in Mobile Cellular Systems," *IEEE Transactions on Wireless Communications*, vol. 5, no. 10, pp. 2752-2759, Oct. 2006. (SCI, EI) (Impact Factor 1.903, 12/76) (SCI: 1 citation/Self-cited: 1) (NSC 93- 2752-E-007-003-PAE)

- 12. <u>Yuh-Ren Tsai</u>, "Macroscopic Diversity Combining Technique for Forward-link of CDMA Cellular Systems," *IEICE Transactions on Communications*, vol. E90-B, no. 1, pp. 69-77, Jan. 2007. (SCI, EI) (Impact Factor 0.359, 53/76) (NSC 91-2213-E-007-083)
- 13. <u>Yuh-Ren Tsai</u> and Shiuh-Jeng Wang, "Two-tier Authentication for Cluster and Individual Sets in Mobile Ad Hoc Networks," *Computer Networks*, vol. 51, issue 3, pp. 883-900, Feb. 2007. (SCI, EI) (Impact Factor 1.201, 23/76) (NSC 93-2752-E-007-003-PAE)
- 14. <u>Yuh-Ren Tsai</u>, "Coverage-Preserving Routing Protocols for Randomly Distributed Wireless Sensor Networks," *IEEE Transactions on Wireless Communications*, vol. 6, no. 4, pp. 1240-1245, Apr. 2007. (SCI, EI) (Impact Factor 1.903, 12/76) (SCI: 14 citations/Self-cited: 0) (NSC-95-2752-E-007-003-PAE)
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- 16. Shiuh-Jeng Wang, <u>Yuh-Ren Tsai</u>, Lei-Sheng Chou, and I-Shan Lin, "Mutually Identity Authentications in GSM-based Anonymous Communications," *Journal of Computers*, vol. 18, no. 2, pp. 33-46, July 2007. (NSC-95-2221-E-015-003)
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- 19. <u>Yuh-Ren Tsai</u>, "Sensing Coverage for Randomly Distributed Wireless Sensor Networks in Shadowed Environments," *IEEE Transactions on Vehicular Technology*, vol. 57, no. 1, pp. 556-564, Jan. 2008. (SCI, EI) (Impact Factor 1.488, 17/76) (SCI: 9 citations/Self-cited: 0) (NSC 95-2752-E-007-003-PAE)
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- 21. Chung-Wei Chen, Shiuh-Jeng Wang and Yuh-Ren Tsai, "TLPKA: Pairwise Key Agreement Based on the Geometrical Property of the Tangent Line in Ad Hoc Network Systems," *International Journal of Hybrid Information Technology*, vol. 1, no. 4, pp. 49-66, Oct. 2008. (NSC 97-2221-E-015 -001)
- 22. <u>Yuh-Ren Tsai</u> and Li-Cheng Lin, "Quality Based OVSF Code Assignment and Reassignment Strategies for WCDMA Systems," *IEEE Transactions on Vehicular Technology*, vol. 58, no. 2, pp. 1027-1031, Feb. 2009. (SCI, EI) (Impact Factor 1.488, 17/76) (SCI: 1 citation/Self-cited: 0) (NSC 95-2752-E-007-003-PAE)
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- 31. <u>Yuh-Ren Tsai</u> and Cheng-Ju Chang, "Cooperative Information Aggregation for Distributed Estimation in Wireless Sensor Networks," *IEEE Transactions on Signal Processing*, vol. 59, no. 8, pp. 3876-3888, Aug. 2011. (SCI, EI) (Impact Factor 2.212, 35/246) (NSC 97-2221-E-007-074-MY3)

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- 3. <u>Ywh-Ren Tsai</u>, Shu-Lan Her and Ming-Chich Hu, "Overview of Mobile Data Service Systems," in Conf. Record of *First Workshop on Mobile Computing*, pp. 89-94, Hsinchu, Taiwan, Apr. 1995.
- 4. Chyi-Nan Wu, Ywh-Ren Tsai and Jin-Fu Chang, "A Quality-Based Birth-and-Death Queueing Model for Evaluating the Performance of an Integrated Voice/Data CDMA Cellular System," in Conf. Record of *Sixth IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, (*PIMRC'95*), pp. 451-455, Toronto, Canada, Sept. 1995. (EI) (Google Scholar: 25 citations)
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- 6. <u>Ywh-Ren Tsai</u>, "An Overlaid Hierarchical Structure for CDMA Cellular Mobile System," in Conf. Record of *Second International Mobile Computing Conference*, pp. 80-88, Hsinchu, Taiwan, Mar. 1996.
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- 13. <u>Yuh-Ren Tsai</u> and Tsand-Ren Chen, "A Novel Macroscopic Diversity Technology for CDMA Mobile Communications Systems," in Proc. of *IEEE 2004 Vehicular Technology Conference* (*VTC-2004 Spring*), vol. 1, pp. 485 489, Milan, May 2004. (EI) (NSC 91-2213-E-007-083)
- 14. <u>Yuh-Ren Tsai</u>, "Coherent *M*-ary Spreading-Code-Phase-Shift-Keying Modulation for Direct-Sequence Spread Spectrum Systems," in Proc. of *IEEE 2004 Vehicular Technology Conference (VTC-2004 Fall)*, vol. 1, pp. 759 763, Los Angeles, Sept. 2004. (EI) (Google Scholar: 1 citation) (NSC 93-2752-E-007-003-PAE)
- 15. <u>Yuh-Ren Tsai</u> and S.J. Wang, "Routing Security and Authentication Mechanism for Mobile Ad Hoc Networks," in Proc. of *IEEE 2004 Vehicular Technology Conference (VTC-2004 Fall)*, vol. 7, pp. 4716 4720, Los Angeles, Sept. 2004. (EI) (Google Scholar: 11 citations) (NSC 93-2752-E-007-003-PAE)
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- 26. Yen-Chen Chen, Xiu-Sheng Li and <u>Yuh-Ren Tsai</u>, "Ranging Capacity and Inter-cell Interference Evaluation for OFDMA Broadband Wireless Mobile Communications," in Proc. of 2006 National Symposium on Telecommunications, Kaohsiung, Taiwan, Dec. 2006. (NSC 94-2219-E-007-006)
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- 31. Shiuh-Jeng Wang, Hung-Hsuan Chen, Pin-You Chen and <u>Yuh-Ren Tsai</u>, "Security Cryptanalysis in High-Order Improved Fast Encryption Algorithm for Multimedia," in Proc. of *Future generation communication and networking (FGCN 2007)*, vol. 1, pp. 328-331, Jeju Island, Korea, Dec. 2007. (EI) (Google Scholar: 2 citations) (NSC 95-2221-E-015-002-MY2)
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(C) 其他

專書 (一章)

"無線通訊系統之訊號監測與接收"-95 年度資通安全專論彙編

專利

- 1. "發射器、接收器、多等級多媒體廣播/群播服務系統以及其調變方法"(國內專利申請中)
- 2. "協調多點傳輸系統多重載波頻率偏移估計之訊號設計與技術方法"(國內專利申請中)
- 3. "Transmitter, Receiver, Multi-class Multimedia Broadcast/Multicast Service System and Modulation Method Thereof" (美國、歐盟專利申請中)
- 4. "Signal Design and Estimation Technology for Multiple Carrier Frequency Offset Estimation in Coordinated Multi-point Transmission Systems" (美國專利申請中)