

期刊論文 Journal Papers

1. Tan-Hsu Tan, Yang-Lang Chang, Jun-Rong Wu, Yung-Fu Chen, and Mohammad Alkhaleefah, "Convolutional Neural Network with Multi-Head Attention for Human Activity Recognition," *IEEE Internet of Things Journal*, pp. 3032-3043, Jan. 2024. (SCI IF:10.238)
2. Azadeh Alizargar, Yang-Lang Chang, Tan-Hsu Tan*, and Tsung-Yu Liu, "Comparative Analysis of Machine Learning and Ensemble Approaches for Hepatitis B Prediction Using Data Mining with Synthetic Minority Oversampling Technique," *Health and Technology*, Nov. 2023. (SCI IF: 2.5)
3. Azadeh Alizargar, Yang-Lang Chang, and Tan-Hsu Tan*, "Performance Comparison of Machine Learning Approaches on Hepatitis C Prediction Employing Data Mining Techniques," *Bioengineering* 2023, 10, 481. <https://doi.org/10.3390/bioengineering10040481>, April 2023.(SCI IF: 5.046)
4. Tan-Hsu Tan, Jyun-Yu Shih, Shing-Hong Liu*, Mohammad Alkhaleefah, Yang-Lang Chang, and Munkhjargal Gochoo, "Using Hybrid Neural Network and Regularized Extreme Learning Machine for Human Activity Recognition by Smartphone and Smartwatch," *Sensors* 2023, 23, 3354. <https://doi.org/10.3390/s23063354>, March 2023. (SCI, IF: 3.576)
5. Shu-Hung Lee, Xiao-Pei Shi, Tan-Hsu Tan, Yu-Lin Lee, Yung-Fa Huang, "Performance of Q-learning based resource allocation for D2D communications in heterogeneous networks," *ICT Express*, Feb. 2023. (SCI IF: 4.754)
6. Erfan Dejband, Yibeltal Chanie Manie, Yu-Jie Deng, Mekuanint Agegnehu Bitew, Tan-Hsu Tan, and Peng-Chun Peng, "High Accuracy and Cost-Effective Fiber Optic Liquid Level Sensing System Based on Deep Neural Network," *Sensors* 2023, 23, 2360. <https://doi.org/10.3390/s23042360>, Feb. 2023. (SCI, IF: 3.576)
7. Erfan Dejband, Cheng-Kai Yao, Yibeltal Chanie Manie, Po-Yang Huang, Hao-Kuan Lee, Tan-Hsu Tan and Peng-Chun Peng, "Utilizing a Tunable Delay Line Interferometer to Improve the Sensing Accuracy of an FBG Sensor System," *Photonics* 2022, 9(11), 869.<https://doi.org/10.3390/photonics9110869>, Nov. 2022. (SCI, IF: 2.536)
8. Ling-Cheng Hsu, Shiang Hsu, Tan-Hsu Tan, Chia-Hsing Cheng and Cheng-Chun Chang, "Developing Low-Cost Mobile Device and Apps for Accurate Skin Spectrum Measurement via Low-Cost Spectrum Sensors and Deep Neural Network Technology," *Sensors* 2022, 22, 8844. [://doi.org/10.3390/s22228844](https://doi.org/10.3390/s22228844), Nov. 2022.(SCI, IF: 3.576)
9. Mohammad Alkhaleefah, Tan-Hsu Tan, Chuan-Hsun Chang*, Tzu-Chuan Wang, Shang-Chih Ma, Lena Chang, and Yang-Lang Chang*, "Connected-SegNets: A Deep Learning Model for Breast Tumor Segmentation from X-ray Images," *Cancers*, 2022, 14, 4030. <https://doi.org/10.3390/cancers14164030>, Aug. 2022. (SCI, IF: 6.575)
10. Yang-Lang Chang, Tan-Hsu Tan, Tsung-Hau Chen, Joon Huang Chuah, Lena Chang, Meng-Che Wu, Narendra Babu Tatini, Shang-Chih Ma, and Mohammad Alkhaleefah*, "Spatial-Temporal Neural Network for Rice Field Classification from SAR Images," *Remote Sensing*, 2022, 14, 1929. <https://doi.org/10.3390/rs14081929>, April 2022. (SCI, IF: 4.848)
11. Shu-Hung Lee, Xiao-Pei Shi, Tan-Hsu Tan*, Yu-Che Tung, and Yung-Fa Huang*, "Maximizing Channel Capacity of 3D MIMO System via Antenna

- Downtilt Angle Adaptation Using Q-Learning Algorithm," *Electronics*, 2022, 11, 1189. <https://doi.org/10.3390/electronics11081189>, April 2022. (SCI, IF: 2.397)
12. Yang-Lang Chang, Tan-Hsu Tan, Wei-Hong Lee, Lena Chang, Ying-Nong Chen, Kuo-Chin Fan and Mohammad Alkhaleefah, "Consolidated Convolutional Neural Network for Hyperspectral Image Classification," *Remote Sensing*, 2022, 14, 1571. <https://doi.org/10.3390/rs14071571>, March 2022. (SCI, IF: 4.848)
 13. Munkh-Erdene Otgonbold, Munkhjargal Gochoo*, Fady Alnajjar, Luqman Ali, Tan-Hsu Tan, Jun-Wei Hsieh, and Ping-Yang Chen, "SHEL5K: An Extended Dataset and Benchmarking for Safety Helmet Detection," *Sensors* 2022, 22, 2315. <https://doi.org/10.3390/s22062315>, March 2022. (SCI, IF: 3.576)
 14. Tan-Hsu Tan, Jie-Ying Wu, Shing-Hong Liu, and Munkhjargal Gochoo, "Human Activity Recognition Using an Ensemble Learning Algorithm with Smartphone Sensor Data," *Electronics* 2022, 11(3), 322; Jan. 2022. (SCI, IF: 2.397)
 15. Tan-Hsu Tan, Yu Tang Lin, Yang-Lang Chang, and Mohammad Alkhaleefah, "Sound Source Localization Using a Convolutional Neural Network and Regression Model," *Sensors* 2021, 21, 8031. <https://doi.org/10.3390/s21238031> Dec. 2021. (SCI, IF: 3.576)
 16. Tan-Hsu Tan, Luubaatar Badarch, Wei-Xiang Zeng, Munkhjargal Gochoo*, Fady S. Alnajjar, and Jun-Wei Hsieh, "Binary Sensors-Based Privacy-Preserved Activity Recognition of Elderly Living Alone Using an RNN," *Sensors* 2021, 21, 5371. <https://doi.org/10.3390/s21165371>, Aug. 2021. (SCI, IF: 3.576)
 17. Tan-Hus Tan, Jin-Hao Hus, Shing-Hong Liu *, Yung-Fa Huang, and Munkhjargal Gochoo, "Using Direct Acyclic Graph to Enhance Skeleton-based Action Recognition with Linear-map Convolution Neural Network" *Sensors* 2021, 21, 3112. <https://doi.org/10.3390/s21093112>, April 2021. (SCI, IF: 3.576)
 18. Munkhjargal Gochoo, Fady Alnajjar, Tan Hsu Tan, and Sumayya Khalid, "Towards Privacy-Preserved Aging in Place: A Systematic Review," *Sensors* 2021, 21, 3082. <https://doi.org/10.3390/s21093082>, April 2021. (SCI, IF: 3.576)
 19. Li-Ju Lin, Nan-Chen Hsieh, Shu-Fang Vivienne Wu, Tan-Hsu Tan, Azadeh Alizargar, Chyi-Huey Bai, Javad Alizargar*, "Factors Associated with Cardio Ankle Vascular Index (CAVI) and Its Mathematically Corrected Formula (CAVI0) in Community Dwelling Individuals," *Artery Research*, Dec. 2020. (SCI, IF: 0.597)
 20. Shing-Hong Liu, Han-Chi Liu, Wenxi Chen, and Tan-Hsu Tan*, "Evaluating Quality of Photoplethymographic Signal on Wearable Forehead Pulse Oximeter with Supervised Classification Approaches," *IEEE Access*, vol. 8, pp. 185121-185135, Oct. 2020. (SCI, IF: 3.367)
 21. Huey-Jen Lai, Tan-Hsu Tan, Chih-Sheng Lin, Yung-Fu Chen, Hsuan-Hung Lin, "Designing a Clinical Decision Support System to Predict Readmissions for Patients Admitted with All-cause Conditions," *Journal of Ambient Intelligence and Humanized Computing*, Jan. 2020. (SCI, IF: 7.104).
 22. Huibin Liu, Tan-Hsu Tan, and Tien-Ying Kuo, "A Novel Shot Detection Approach Based on ORB Fused with Structural Similarity," *IEEE Access*, pp. 2472-2481, Dec. 2019. (SCI, IF: 3.745)

23. Shing-Hong Liu, Jia-Jung Wang, and Tan-Hsu Tan, "A Portable and Wireless Multi-Channel Acquisition System for Physiological Signal Measurements," *Sensors* 2019, 19, 5314; doi:10.3390/s19235314, DEC. 2019. (SCI, IF: 3.275)
24. Tan-Hsu Tan, Tien-Ying Kuo, and Huibin Liu, "Intelligent Lecturer Tracking and Capturing System Based on Face Detection and Wireless Sensing Technology," *Sensors* 2019, 19, 4193; doi:10.3390/s19194193, Sept. 2019. (SCI, IF: 3.275)
25. Munkhjargal Gochoo, Tan-Hsu Tan, Shih-CHia Huang, Tsedevdorj Batjargal, Jun-Wei Hsieh, Fady Alnajjar, Yung-Fu Chen, "Novel IoT-Based Privacy-Preserving Yoga Posture Recognition System Using Low-Resolution Infrared Sensors and Deep Learning," *IEEE Internet of Things Journal*, pp. 7192-7200, Aug. 2019. (SCI, IF: 9.936)
26. Shing-Hong Liu, Li-Jen Liu, Kuo-Li Pan, Wenxi Chen and Tan-Hsu Tan*, "Using the Characteristics of Pulse Waveform to Enhance the Accuracy of Blood Pressure Measurement by a Multi-Dimension Regression Model," *Applied Sciences*, 9(14):2922, DOI: 10.3390/app, 9142922, July 2019. (SCI, IF: 2.474)
27. Munkhjargal Gochoo, Tan-Hsu Tan, Shing-Hong Liu, Fu-Rong Jean, Fady S. Alnajjar, and Shih-Chia Huang, "Unobtrusive Activity Recognition of Elderly People Living Alone Using Anonymous Binary Sensors and DCNN," *IEEE Journal of Biomedical and Health Informatics*, Vol.23, No.2, pp. 693-702, March 2019. (SCI, IF: 5.223)
28. Shih-Chia Huang, Huibin Liu, Bo-Hao Chen, Zhijun Fang, Tan-Hsu Tan, and Sy-Yen Kuo, "A Grey Relational Analysis-Based Motion Detection Algorithm for Real-World Surveillance Sensor Deployment," *IEEE Sensors Journal*, Vol.19, Issue 3, pp. 1019-1027, Feb. 2019.(SCI, IF: 3.073)
29. Shing-Hong Liu, Cheng-Hsiung Hsieh, Wenxi Chen, and Tan-Hsu Tan, "ECG Noise Cancellation Based on Grey Spectral Noise Estimation," *Sensors*, 2019 Feb. 2019(4), doi: 10.3390/s19040798.019 (SCI, IF: 3.275)
30. Tan-Hsu Tan, Munkhjargal Gochoo, Shih-Chia Huang, Yi-Hung Liu, Shing-Hong Liu, and Yung-Fa Huang, "Multi-Resident Activity Recognition In A Smart Home Using RGB Activity Image and DCNN," *IEEE Sensors Journal*, Vol.18, Issue 23, pp. 9718-9727, Dec. 2018.(SCI, IF: 3.076).
31. Tan-Hsu Tan, Bor-An Chen, and Yung-Fa Huang, "Performance of Resource Allocation in Device-to-Device Communication Systems Based on Evolutionally Optimization Algorithms," *Applied Sciences*, 2018, 8, 1271; doi:10.3390/app8081271, July 2018. (SCI, IF: 2.217).
32. Chun-Hung Su, Shing-Hong Liu, Tan-Hsu Tan, and Chien-Hsien Lo, "Using the Pulse Contour Method to Measure the Changes in Stroke Volume during a Passive Leg," *Sensors* 2018, 18, 3420; doi:10.3390/s18103420 (SCI, IF: 3.031).
33. Shing-Hong Liu, Jia-Jung Wang, Chun-Hung Su, and Tan-Hsu Tan, "Development of an Electrocardiogram Patch-Based Health Management System in Real Time Analysis," *Journal of Medical and Biological Engineering (JMBE)*, 38:411–423 , 2018. (SCI, IF: 1.211)
34. Munkhjargal Gochoo, Tan-Hsu Tan*, Vijayalakshmi Velusamy, Shing-Hong Liu, Damdinsuren Bayanduuren, and Shih-Chia Huang, "Device-Free Non-Privacy Invasive Classification of Elderly Travel Patterns in A Smart House Using PIR Sensors and DCNN," *IEEE Sensors Journal*, Vol.18, Issue 1, pp. 390-400, Jan. 2018.(SCI, IF: 3.076)

35. Tan-Hsu Tan, Munkhjargal Gochoo, Fu-Rong Jean, Shih-Chia Huang, and Sy-Yen Kuo, "Front-door Event Classification Algorithm for Elderly People Living Alone in Smart House Using Wireless Binary Sensors," *IEEE Access*, pp. 10734-10743, Dec. 2017. (SCI, IF: 3.557).
36. Yung-Fa Huang, Tan-Hsu Tan, C.-H. Cheng, W.-C. Lai, and H.-C. Chen, "Performance of a novel evolutionary genetic-based multi-user detector for multi-carrier CDMA communication systems," *Soft Computing*, pp. 1031-1039, Feb. 2017. (SCI, IF: 1.271).
37. Tan-Hsu Tan, Munkhjargal Gochoo, Yung-Fu Chen, Jin-Jia Hu, John Y. Chiang, Ching-Su Chang, Ming-Huei Lee, Yung-Nian Hsu, and Jiin-Chyr Hsu, "Ubiquitous Emergency Medical Service System Based on Traffic Information and Wireless Communication Technologies: Development and Evaluation," *Sensors* 2017, 17(1), 202; doi:10.3390/s17010202 (SCI, IF: 2.475)
38. Bo-Hao Chen, Andrey Kopylov, Shih-Chia Huang, Oleg Seredin, Roman Karpov, Sy-Yen Kuo, K. Robert Lai, Tan-Hsu Tan, Munkhjargal Gochoo, Damdinsuren Bayanduuren, Cihun-Siyong Gong, and Patrick C.K. Hung, "Improved global motion estimation via motion vector clustering for video stabilization," *Engineering Applications of Artificial Intelligence* 54 pp. 39-48, 2016. (SCI, IF: 2.207)
39. Tan-Hsu Tan, N.-C. Wang, Yung-Fa Huang*, Y.-D. Wang, and Y.-L. Chen, "Performance of a Novel Energy-Efficient and Energy Awareness Scheme for Long-Lifetime Wireless Sensor Networks," *Sensors and Materials*, pp. 697–708, Aug. 2015.(SCI, IF: 0.489)
40. Yung-Fa Huang, Tan-Hsu Tan, Yau-Der Wang, Young-Long Chen, and Neng-Chung Wang, 2014, "An Energy Balancing Cross Layer Scheme for Long Lifetime Wireless Sensor Networks," *Applied Mechanics and Materials*. (EI)
41. Chin-Hsing Chen , Wen-Tzeng Huang , Tan-Hsu Tan , Cheng-Chun Chang, and Yuan-Jen Chang, "Using K-Nearest Neighbor Classification to Diagnose Abnormal Lung Sounds," *Sensors*, pp. 13132-13158, doi:10.3390/s150613132, 2015. (SCI, IF: 2.048)
42. Ming-Huei Lee, Huei-Ching Wu, Jen-Yung Lin, Tan-Hsu Tan, Po-Chou Chan and Yung-Fu Chen, "Development and evaluation of an E-health system for caring for patients with bladder pain syndrome/interstitial cystitis," *International Journal of Urology*, 21 Suppl S1:62-68, April 2014. (SCI, IF: 1.734)
43. Jiin-Chyr Hsu, Yung-Fu Chen, Wei-Sheng Chung, Tan-Hsu Tan, Tainsong Chen and John Y Chiang, "Clinical Verification of A Clinical Decision Support System for Ventilator Weaning," *Journal: BioMedical Engineering OnLine*, Dec. 2013. (SCI, IF: 1.61)
44. Yung-Fa Huang*, Tan-Hsu Tan, and Shi-Yan Peng, "Performance of a Near-Far Resistant Adaptive Power Allocation for Physical Layer Network Coding Systems," *Advanced Science Letters*.
45. Tan-Hsu Tan, Ching-Su Chang and Yung-Fu Chen, "Developing an Intelligent e-Restaurant with a Menu Recommender for Customer-Centric Service," *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews*, Sept. 2012, pp. 775-787, Impact Factor: 2.548, Rank: 2/21. (SCI)
46. Tan-Hsu Tan, Min-Sheng Lin, Yu-Ling Chu and Tsung-Yu Liu, "Educational Affordances of a Ubiquitous Learning Environment in a Natural Science Course"

- Journal of Educational Technology & Society (Published by IEEE Computer Society), Impact Factor: 1.171, 15(2), pp. 206–219. Rank: 46/216. (SSCI), 2012.
47. Tan-Hsu Tan*, Ching-Su Chang, Yung-Fa Huang, Yung-Fu Chen and Cheng Lee, "Development of a Portable Linux-Based ECG Measurement and Monitoring System," *Journal of Medical Systems*, Vol. 35, Issue 4, Aug. 2011, pp. 559-569, SCI, Impact Factor: 1.132, Rank: 55/76. (SCI)
 48. 黃文增，陳錦杏，曾國剛，張淵仁，譚旦旭，"即時疲勞度之偵測研究與分析," *資訊科技國際期刊(IJAIT)*, Vol. 4, No. 1, pp.119-138, Jun. 2010. (ISSN: 1996-2568)
 49. Tan-Hsu Tan* and Ching-Su Chang, "Development and Evaluation of an RFID-Based e-Restaurant System for Customer-Centric Service," *Expert Systems With Applications*, (ESWA), Vol. 37, Issue 9, pp. 6482-6492, Sept. 2010, SCI, Impact Factor: 1.926, Rank: 15/75. (SCI)
 50. Tan-Hsu Tan*, Yung-Fa Huang, and Fei-Tsung Liu, "Multi-user Detection in DS-CDMA Systems Using a Genetic Algorithm with Redundancy Saving Strategy," *International Journal of Innovative Computing, Information and Control (IJICIC)*, Vol. 6, No. 8, pp. 3347-3364, Aug. 2010, SCI, Impact Factor: 1.667, Rank: 12/60. (SCI)
 51. Yung-Fa Huang, Yung-Fu Chen, Tan-Hsu Tan* and Ho-Lung Hung, "Applications of Fuzzy Logic for Adaptive Interference Canceller in CDMA Wireless Communication Systems," *International Journal of Innovative Computing, Information and Control (IJICIC)*, Vol. 6, No. 4, pp. 1749-1761, April 2010, SCI, Impact Factor: 1.667, Rank: 12/60. (SCI)
 52. 譚旦旭*，張清樹，龔哲幀，"整合 RFID 技術之 e 化餐飲管理系統實作" *電機月刊*，pp. 94-107, Nov. 2009.
 53. Tsung-Yu Liu, Tan-Hsu Tan* and Yu-Ling Chu, "Outdoor Natural Science Learning in RFID-Supported Immersive Ubiquitous Learning Environment," *Journal of Educational Technology & Society* (Published by IEEE Computer Society), 12 (4), pp. 161–175, 2009, SSCI, Impact Factor: 1.067, Rank: 37/139. (SSCI)
 54. C.-H. Chang, T.-H. Tan, H.-H. Lu, W.-Y. Lin, and S.-J. Tzeng, "Repeaterless Hybrid CATV/16-QAM OFDM Transport Systems," *Progress in Electromagnetics Research Letters*, Vol. 8, pp. 171–179, 2009, SCI, Impact Factor: 3.763, Rank: 1/76. (SCI)
 55. Yung-Fa Huang, Neng-Chung Wang, Tan-Hsu Tan and Chih-Pin Tsai, "Performance of a Novel Fuzzy-Based Code Allocator for Two-Dimensional Spreading OFCDM Communication Systems," *International Journal of Fuzzy Systems (IJFS)*, Vol. 10, No. 4, pp. 231-239, December 2008, SCI, Impact Factor: 1.090, Rank: 67/102. (NSC 96-2221-E-324-003-) (SCI)
 56. Tan-Hsu Tan*, San-Yuan Huang, Ching-Su Chang and Yung-Fa Huang, "Optimizing Markov Model Parameters for Asynchronous Impulsive Noise over Broadband Power Line Communication Network," *IEICE Trans. on Fundamentals of Electronics, Communications and Computer Sciences*, Vol. E91-A, No. 6, pp.1533-1536, June 2008, SCI, Impact Factor: 0.366 , Rank: 193/245. (SCI)
 57. Tan-Hsu Tan*, Tsung-Yu Liu, and Chi-Cheng Chang, "Development and Evaluation of an RFID-based Ubiquitous Learning Environment for Outdoor

Learning," *Interactive Learning Environments*, Vol. 15, No. 3, pp. 253–269, December 2007, SSCI, Impact Factor: 0.973 , Rank: 46/139. (NSC95-2520-S-027-002) (SSCI)

58. Ching-Su Chang, Tan-Hsu Tan*, Yung-Fu Chen, Yung-Fa Huang, Ming-Huei Lee, Jin-Chyr Hsu, and Hou-Chaung Chen, "Development of a Ubiquitous Emergency Medical Service System Based on Zigbee and 3.5G Wireless Communication Technologies," *ICMB 2010, Lecture Notes in Computer Science (LNCS)* 6165, pp. 201–208, Springer-Verlag Berlin Heidelberg 2010.(EI)
59. Yung-Fa Huang, Tan-Hsu Tan, Y.-D. Wang, N.-C. Wang, and Ding Yin, 2009, "Analysis on an Energy Efficient Routing Algorithm for Wireless Sensor Networks," *Lecture Notes in Computer Science (LNCS)* 5574, pp. 786–796, Springer-Verlag Berlin Heidelberg 2009. (EI)
60. Yung-Fa Huang, Tan-Hsu Tan, Chia-Hsin Cheng and Neng-Chung Wang, "Performance of Partial Parallel Interference Cancellation with MCCDMA Transmission Techniques for Power Line Communication Systems," *WSEAS Trans. on Communications*, pp.729-738, July 2008. (EI)
61. Tan-Hsu Tan*, Ching-Su Chang, Yung-Fu Chen, and Cheng Lee, "Implementation of a Portable Personal EKG Signal Monitoring System," *Lecture Notes in Computer Science (LNCS)* 4901, Springer-Verlag Berlin Heidelberg, pp. 122–128, 2007. (EI)
62. Yung-Fa Huang, Ping-Ho Ting, and Tan-Hsu Tan, "Application of Fuzzy Logic for Adaptive Interference Canceller in CDMA Systems," in *New Trends in Applied Artificial Intelligence, Lecture Notes in Artificial Intelligence (LNAI)* 4570, Springer-Verlag Berlin Heidelberg, pp. 165–174, June 2007. (EI)
63. Tan-Hsu Tan and Kuo-Lung Yeh, "Performance of Bluetooth eSCO Packets for Speech Transmission and Integration Application of 3GPP AMR Codec to Bluetooth System," *Journal of National Taipei University of Technology*. vol. 39-1, pp. 1-12, March. 2006.
64. 林長瑋，洪財旺，宋國明，譚旦旭，馬達控制用之類比與數位混合積體電路設計，*電機月刊*，pp. 192-207, Aug. 2005.
65. Tan-Hsu Tan and Shin-Fu Wang, "A Study on the Applications of Speech Recognition to Bluetooth Wireless Communications," *Journal of National Taipei University of Technology*. vol. 37-2, pp. 17-28, Sep. 2004.
66. Tan-Hsu Tan, Chen-Hsiang Pai, and Kuo-Lung Yeh, "Design and Implementation of Home HealthCare System Based on Web Service, Bluetooth, and GSM Short Message Service," *Journal of National Taipei University of Technology*, vol. 37-1, pp. 15-25, March 2004. (NSC 92-2218-E-027-005)
67. Tan-Hsu Tan, Chwan-Lu Tseng, Jenn-Shing Wang, and Wen-Chu Weng, "Implementation and Applications of Universal Remote Control Interface Based on the FLEX Protocol," *Journal of National Taipei University of Technology*, vol. 35-1, pp. 81-88, March 2002. (NSC-90-2213-E-027-015)
68. Wen-Whei Chang, Tan-Hsu Tan, and De-Yu Wang, "Robust Vector Quantization for Wireless Channels," *IEEE Journal on Selected Areas in Communications*, vol. 19, no. 7, pp. 1365-1373, July 2001. (SCI) (NSC 88-2218-E009-020)
69. Po-Rong Chang, and Tan-Hsu Tan, "Fuzzy Neural Systems for Controlling Sound Localisation in Stereophonic Reproduction," *IEE Proceedings Control*

- Theory and Applications, vol. 145, no. 4, pp. 393-401, July 1998. (SCI) (NSC 83-0404-E009-023)
70. Tan-Hsu Tan and Wen-Whei Chang, "A Hybrid Strategy for Gilbert's Channel Characterization Using Gradient and Annealing Techniques," *International Journal of Systems Science*, vol. 29, no. 6, pp. 579-585, June 1998. (SCI) (NSC 85-2213-E009-010)
 71. Wen-Whei Chang, Jeng-Yih Wang and Tan-Hsu Tan, "The Statistical Cryptanalysis of DFT-Based Speech Scramblers," *Journal of the Chinese Institute of Electrical Engineering*, vol. 3, no. 4, pp. 307-314, November 1996. (EI) (NSC 84-2223-E009-124)
 72. Tan Hsu Tan and Wen-Whei Chang, "Estimation of Gilbert Model Parameters Using the Simulated Annealing Method," *IEE Electronics Letters*, vol. 32, no.14, pp.1256-1258, July 1996. (SCI) (NSC 85-2213-E009-010)

研討會論文 Conference Papers

1. Tan-Hsu Tan, Ching-Jung Huang, Munkhjargal Gochoo, and Yung-Fu Chen, "Activity Recognition Based on FR-CNN and Attention-Based LSTM Network," 30th IEEE Wireless and Optical Communications Conference (WOCC 2021), 7-8, Oct. 2021..
2. Erfan Dejband, Jyun-Wei Li, Peng-Chun Peng, and Tan-Hsu Tan, "Prediction of THz Absorption and Inverse Design of Graphene-Based Metasurface Structure Using Deep Learning," 30th IEEE Wireless and Optical Communications Conference (WOCC 2021), 7-8, Oct. 2021.
3. Tan-Hsu Tan¹, Munkhjargal Gochoo², Hong-Syuan Chen¹, Shing-Hong Liu³, and Yung-Fa Huang, "Activity Recognition Based on DCNN and Kinect RGB Images," 2020 International Conference on Fuzzy Theory and Its Applications (iFUZZY 2020), National Chiao Tung University, Hsinchu, Taiwan, Nov. 4-7, 2020.
4. Tsung-Yu Liu, Tan-Hsu Tan, Yung-Fa Huang, Han-lin Lin, Shang-Chih Ma, Ming-Yih Lee, and Shing-Hong Liu, "Development of An POF-based Navigation System for People with Mild Cognitive Impairment Based on Wandering Detection," 2019 IEEE International Conference on Systems, Man, and Cybernetics, Bari, Italy, Oct. 6-9, 2019.
5. Tan-Hsu Tan, Fu-Rong Jean, Chia-Jung Lin, Tsung-Yu Liu, Yung-Fa Huang, and Shing-Hong Liu, "Improvement on the Interpersonal Relationship of the Elderly with Mild Cognitive Impairment by Using Speaker Recognition," IEEE 2018 International Symposium on Computer, Consumer and Control, Dec. 6-8 2018. (Best Paper Award)
6. 郭乃瑋、譚旦旭、曾威翔、趙偉婷、"基於隱藏式馬可夫模型與步態參數之跌倒風險評估暨跌倒偵測系統"，2018 民生電子研討會、國立高雄科技大學第一校區、2018.11.16-17.
7. Hui-Bin Liu, Tan-Hsu Tan, Shih-chia Huang, Ze-Jie Wang, Jing Zhou, "A Novel Shot Detection Approach Using 8-Neighbors and Key-Colors," The 7th IEEE International Symposium on Next-Generation Electronics, May 5-7, 2018. (Best Paper Award)
8. Munkhjargal Gochoo, Tan-Hsu Tan, Tsedevdorj Batjargal, Oleg Seredin, and Shih-Chia Huang, "Device-Free Non-Privacy Invasive Indoor Human Posture

Recognition Using Low-Resolution Infrared Sensor-Based Wireless Sensor Networks and DCNN,” 2018 IEEE International Conference on Systems, Man, and Cybernetics, Miyazaki, Japan, Oct. 7-10, 2018.

9. 黃永發、譚旦旭、林耿緯、黃紹傑，裝置對裝置通訊系統之資源分配效能研究，2017 年民生電子研討會，Nov. 18, 2017.(獲頒優良論文獎)
10. 林佳蓉、譚旦旭、簡福榮、趙偉婷，應用語者辨識技術與網路社群平台增進輕微認知障礙銀髮族的人際關係，2017 年民生電子研討會，Nov. 18, 2017.
11. Munkhjargal Gochoo, Tan-Hsu Tan, Shing-Hong Liu, Shih-Chia Huang, Fady S. Alnajjar, "DCNN-Based Elderly Activity Recognition Using Binary Sensors," 2017 International Conference on Electrical and Computing Technologies and Applications (ICECTA), Nov. 21-23, American University of Ras Al Khaimah (AURAK), United Arab Emirates (UAE).
12. Munkhjargal Gochoo, Tan-Hsu Tan, Shing-Hong Liu, Vijayalakshmi Velusamy, Damdinsuren Bayanduuren, Tsung-Yu Liu, "Deep Convolutional Neural Network Classifier for Travel Patterns Using Binary Sensors," 2017 IEEE 8th International Conference on Awareness Science and Technology (iCAST 2017), Nov. 8-10, 2017, The Splendor Hotel, Taichung, Taiwan.
13. Yung-Fa Huang, Tan-Hsu Tan, Bor-An Chen, Yung-Fu Chen, "Performance of Resource Allocation in Device-To-Device (D2D) Communication Systems Based on Particle Swarm Optimization," in Proc. of 2017 IEEE International Conference on Systems, Man, and Cybernetics, Banff, Canada, Oct. 5-8.
14. Munkhjargal Gochoo, Tan-Hsu Tan, Fu-Rong Jean, Shih-Chia Huang, Sy-Yen Kuo, "Device-Free Non-Invasive Front-Door Event Classification Algorithm for Forget Event Detection Using Binary Sensors in the Smart House," in Proc. of 2017 IEEE International Conference on Systems, Man, and Cybernetics, Banff, Canada, Oct. 5-8.
15. 周靜華，譚旦旭，簡福榮，林明逸，趙偉婷，基於行為規劃之輕微失智症患者日常生活導引與更正提示系統之發展與實現，2016 年民生電子研討會，Nov. 19, 2016.(獲頒優良論文獎)
16. Yung-Fa Huang, Tan-Hsu Tan, Shing-Hong Liu, and Rung-Ching Chen, "Performance of Frequency Resource Assignment Schemes for Cognitive Radio Based Cooperative Communication Systems," in Proc. of 2016 IEEE International Conference on Systems, Man, and Cybernetics, Budapest, Hungary, Oct. 9-12.
17. Munkhjargal Gochoo, Damdinsuren Bayanduuren, Sy-Yen Kuo, Tan-Hsu Tan, and Shih-Chia Huang, "Design and Application of Novel Morphological Filter used in Vehicle Detection," 15th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2016), June 26-29, 2016, Okayama, Japan.
18. Po-Hsiung Lin, Fan-Chieh Cheng, Shih-Chia Huang, Tan-Hsu Tan, Damdinsuren Bayanduuren, Khurelbaatar Tseveenjav, and Sy-Yen Kuo, "A Block Restriction Method Using Guided Image Filter for Local Histogram Equalization," IEEE International Conference on Consumer Electronics, June 6-8, 2015.
19. Po-Hsiung Lin, Fan-Chieh Cheng, Shih-Chia Huang, Tan-Hsu Tan, Damdinsuren Bayanduuren, Khurelbaatar Tseveenjav, and Sy-Yen Kuo, "An IR

LED Production Yield Estimation Method for IP-Camera,” IEEE International Conference on Consumer Electronics, June 6-8, 2015.

20. 蘇聖祐、桑茂森、譚旦旭，架構於 Android 行動裝置之血壓計，2015 年民生電子研討會，Nov. 28, 2015.
21. 譚旦旭、黃永發、劉松坪、徐靈承，"無線通訊中裝置對裝置多點傳播之子載波配置之系統效能" 2015 年民生電子研討會，Nov. 28, 2015. (獲頒「2015 年民生電子研討會」最佳論文獎)
22. 陳科豪、Munkhjargal Gochoo、譚旦旭、簡福榮、陳永福、李麗珠，應用資通訊技術實現銀髮族日常活動監測系統，2014 年民生電子研討會.
23. Chia-Chi Sung, Tan-Hsu Tan, Cheng-Chun Chang, and Yung-Fa Huang, "Channel Estimation of Uplink OFDMA System Based on Pilot Arrangements," 2014 年民生電子研討會.
24. 林孟喬、譚旦旭、黃永發、簡福榮，訊雜比之估計及其於下行正交分頻多工合作式通訊系統頻譜資源分配之應用研究，2014 年民生電子研討會.
25. Tan-Hsu Tan, Yung-Fa Huang, Fu-Rong Jean, Bo-Kai Chang, Sea-Fue Wang, and John Y. Chiang, "Mixing PSO and Tabu Search Technique and Its Application to Estimation of Carrier Frequency Offsets for Uplink OFDMA System" 2014 IEEE International Conference on Systems, Man, and Cybernetics, San Diego, USA, Oct. 5-8. (EI)
26. Tan-Hsu Tan, Ke-Hao Chen, Munkhjargal Gochoo, Fu-Rong Jean, Yung-Fu Chen, and Li-Chu Lee, "Monitoring of Activity of Daily Living for Elderly People Using RFID and Wearable Technologies," in Proc. of the 4th International Symposium in Computational Medical and Health Technology, September 21-22, 2014, Taipei, Taiwan.
27. Tan-Hsu Tan, Munkhjargal Gochoo, Ke-Hao Chen, Fu-Rong Jean, Yung-Fu Chen, Fu-Jin Shih, and Chiung Fang Ho, "Indoor Activity Monitoring System for Elderly Using RFID and FitBit Flex Wristband," in Proc. of IEEE-EMBS International Conference on Biomedical and Health Informatics, Valencia, Spain, June 1-4, 2014.
28. 林朝陽，譚旦旭，陳永福，徐錦池，"基於 Android 行動裝置之健康促進應用程式之實現," 2013 年民生電子研討會，I-Lan, Taiwan, Nov. 23-24
29. 陳錦杏，譚旦旭，陳奕安，黃文增，曾宏立，"最近相鄰分類法應用於主肺音預防診斷," 2013 智慧電子應用設計研討會 (2013 Conference on Innovative Electronics Design and Applications, HCS003), pp. 35-40, Nov. 2013. (ISBN/978-957-21-9205-4)
30. 張博凱、譚旦旭、黃永發、簡福榮，"粒子群與禁忌搜尋演算法之整合及其於上行正交分頻多重存取系統載波頻率偏移估計之應用" 2013 年全國電信研討會，民國 102 年 11 月 15-16 日，臺南.
31. Tan-Hsu Tan, Cheng-Chun Chang, Fu-Rong Jean, John Y. Chiang, and Yi-Chiao Lu, "Joint Channel Estimation and Multi-User Detection for OFDMA Systems Using A Genetic Algorithm with Simulated Annealing-Based Mutation" in Proc. of 2013 IEEE International Conference on Systems, Man, and Cybernetics, Manchester, UK, Oct. 13-16. (EI)

32. Tan-Hsu Tan, Munkhjargal Gochoo, et al., "Fall Detection for Elderly Persons Using Android-Based Platform," the 8th International Forum on Strategic Technology (IFOST2013), Ulaanbaatar, Mongolia, June 28-July 1, 2013.
33. Tan-Hsu Tan, Munkhjargal Gochoo, et al., "Development of an Emergency Medical Service System Based on Wireless Networks and Real-Time Traffic Information," 2012 International Conference on Computerized Healthcare, (ICCH2012), Dec.17-18, Hong Kong, 2012.
34. 譚旦旭等，"架構於 Android 行動裝置之遠距醫療心電訊號監測系統實作" 2012 年民生電子研討會論文集。
35. Tsung-Yu Liu, Yu-Ling Chu, Tan-Hsu Tan, "Using Computer Games in a Computer Course to Improve Learning," in Proc. of 2012 IEEE International Conference on Teaching, Assessments and Learning for Engineering (TALE2012), Aug. 20-23, Hong Kong. pp.W2C12-W2C19.
36. Tan-Hsu Tan, Yong-Chun Li, Cheng-Chun Chang, and Yung-Fa Huang, "Estimation of Carrier Frequency Offsets for Uplink OFDMA System Using A Hybrid Taguchi-Mutated-Particle Swarm Optimization Approach," in Proc. of 2012 IEEE International Conference on Systems, Man, and Cybernetics, Seoul, Korea, Oct. 14-17. (EI)
37. Chia-Hsin Cheng, Ling-Cheng Hsu, Yung-Fa Huang and Tan-Hsu Tan, "Using Bisection Method for Fast CFO Estimation in OFDM Systems," in Proc. of 2012 IEEE International Conference on Systems, Man, and Cybernetics, Seoul, Korea, Oct. 14-17. (EI)
38. Tsung-Yu Liu, Tan-Hsu Tan, Min-Sheng Lin and Yu-Ling Chu. (2011). The effects of ubiquitous games on junior students' achievement in English learning. 2012 International Conference on Information and Computer Applications (ICICA 2012), Hong Kong.
39. Tsung-Yu Liu, Tan-Hsu Tan, Min-Sheng Lin and Yu-Ling Chu (2011). Educational Affordances of Ubiquitous Learning. In proceedings of the 6th International Conference on E-learning and Games (Edutainment 2011), LNCS 6872, pp.86-91, Taipei, Taiwan.
40. 胡晉嘉、譚旦旭、Bilgee Sukhbaatar, 陳永福, 黃永發, 李明輝, "整合即時路況資訊之緊急救護系統實作" 2011 年民生電子研討會, Taichung, Taiwan, Nov. 11 2011.(獲最佳論文獎)
41. Yung-Fa Huang, Tan-Hsu Tan and Shi-Yan Peng, "Performance of a Near-Far Resistant Adaptive Power Allocation for Physical Layer Network Coding Systems," to appear in First International Conference on Engineering and Technology Innovation 2011 (ICETI2011), Kenting, Taiwan, November 11-15, 2011.
42. Yung-Fa Huang, K.-H. Liu, L.-C. Hsu and Tan-Hsu Tan, 2010, "Performance of Adaptive Fuzzy Spreading Coded Selection Tree Combining for 2-D Spreading OFCDM Communication Systems," in Proc. of 2010 IEEE Conference on Systems, Man and Cybernetics (SMC2010), Istanbul, Turkey, pp. 191-196, October 10-13, 2010.
43. Tan-Hsu Tan, Yung-Fa Huang, Ling-Cheng Hsu, and Kuan-Ren Lin, "Carrier Frequency Offsets Estimation for Uplink OFDMA Systems Using Enhanced PSO and Multiple Access Interference Cancellation," in Proc. of 2011 IEEE

International Conference on Systems, Man, and Cybernetics (SMC2011), October 9-12, 2011, Anchorage, Alaska, USA.

44. Tan-Hsu Tan, Bilgee Sukhbaatar, Yung-Fa Huang, Yung-Fu Chen, Ching-Su Chang, Jin-Jia Hu, Yong-Nian Syu, and Jin-Chyr Hsu, "Developing a Ubiquitous Emergency Medical Service System Based on Wireless Access and Geographic Information System," in Proc. of International Conference on Knowledge Based Industry-2011 (ICKI-2011). 06-07 July 2011, Ulaanbaatar, Mongolia.(獲 Best Paper and Best Paper Presentation Awards)
45. 林寬仁、張正春、譚旦旭, "上行正交分頻多重存取系統載波頻率偏移之估計與補償"2010 年民生電子研討會, Tainan, Taiwan, Nov. 5, 2010.
46. 蔡育廷、譚旦旭、簡福榮, "Interference Cancellation Techniques for Carrier Frequency Offsets Compensation in Uplink OFDMA Systems," 2010 年民生電子研討會, Tainan, Taiwan, Nov. 5, 2010.
47. 王家駿、譚旦旭、黃永發, "干擾消除技術及混合式最佳化演算法於正交互補碼 MC-CDMA 系統多用戶偵測之應用研究" 2010 年民生電子研討會, Tainan, Taiwan, Nov. 5, 2010.
48. Tan-Hsu Tan, Yung-Fa Huang, Ling-Cheng Hsu, and Che-Hang Wu, "Joint Channel Estimation and Multi-user Detection for MC-CDMA System Using Genetic Algorithm and Simulated Annealing,"in Proc. of 2010 IEEE International Conference on Systems, Man, and Cybernetics (SMC2010), pp. 249-256, October 10-13, Istanbul, Turkey, 2010. (EI)
49. 彭士彥、譚旦旭、黃永發*、徐靈承, 2010, "實體層網路編碼於雷利通道之效能分析," 2010 全國電信研討會, Taipei, Taiwan, 3-4 Dec. 2010.
50. 鄭佳炘、徐靈承、譚旦旭、黃永發, 2010, "應用於 MIMO-OFDM 系統以導引信號為基礎的頻率偏移及通道估測," 2010 全國電信研討會, Taipei, Taiwan, 3-4 Dec. 2010.
51. Yung-Fa Huang, C.-C Lai, L.-C. Hsu and T.-H. Tan, "Performance on Adaptive Path Selection Scheme for Cooperative Communication Networks,"in Proc. of 2010 Symposia and Workshops on Ubiquitous, Autonomic and Trusted Computing (UIC-ATC 2010), Xi'an, China, pp. 94-98, 26-29 October, 2010.
52. Tan-Hsu Tan, Ching-Su Chang, Yung-Fu Chen, Yung-Fa Huang, and Tsung-Yu Liu, "Development of an Intelligent e-Restaurant with Menu Recommendation for Customer-Centric Service,"in Proc. of International Workshop on Mobile Multimedia Processing (WMMP 2010), Istanbul, Turkey, August 22nd, 2010. (EI)
53. Y.-N.Hsu, S.-W.Chien, V.T.-H.Lin, J.Lee, T.-H.Tan, and Y.-F.Chen, "Application of RFID Technology in Management of Controlled Drugs- Proof of Concept," in Proc. of International Workshop on Mobile Multimedia Processing (WMMP 2010), Istanbul, Turkey, August 22nd, 2010. (EI)
54. 黃文增, 譚旦旭, 曾國剛, "疲勞度感知之行車守護神設計研究"2010 International Conference on Advanced Information Technologies, (AIT 2010), pp. 206. (ISBN: 978-986-7043-30-6)
55. Ching-Su Chang, Tan-Hsu Tan, Yung-Fu Chen, Yung-Fa Huang, Ming-Huei Lee, Jin-Chyr Hsu, and Hou-Chaung Chen, "Development of a Ubiquitous Emergency Medical Service System Based on Zigbee and 3.5G Wireless

- Communication Technologies,"in Proc. of 2010 International Conference on Medical Biometrics, June 28-30, 2010, Hong Kong. (EI).
56. 莊侑叡，譚旦旭，黃永發，"改良型粒子群演算法於上行多輸入多輸出分頻多工系統多用戶偵測之應用研究" 全國電信研討會，Kao-Hsiung, Taiwan, December 11-12, 2009.
 57. 陳信宏，譚旦旭，黃永發，"以適應性濾波器估計多輸入多輸出正交分頻多工系統通道特性之應用研究" 全國電信研討會，Kao-Hsiung, Taiwan, December 11-12, 2009.
 58. 譚旦旭、楊為守、鄧乃睿、張清樹、黃永發、陳永福，"基於行動及無線通訊技術之緊急救護系統實作," in Proc. of 2009 醫學工程科技研討會, Taipei, Taiwan, December 11-12, 2009.
 59. 吳承翰，譚旦旭，黃永發，"Joint Channel Estimation and Multi-user Detection for MC-CDMA Systems Using Genetic Algorithm and Simulated Annealing," 2009 年民生電子研討會，Taichung, Taiwan, Nov. 6, 2009.
 60. 張清樹，譚旦旭，黃永發，陳永福，"Development of an Intelligent e-Restaurant for Customer-Centric Service," 2009 年民生電子研討會，Taichung, Taiwan, Nov. 6, 2009.
 61. Yung-Fa Huang, Tan-Hsu Tan, Yau-Der Wang, Jen-Yung Lin and Yin Ding, "Performance of an Energy Efficient Routing Design for Wireless Sensor Networks," in Proc. of the 10th International Symposium on Pervasive Systems, Algorithms and Networks (I-SPAN 2009), Kao-Hsiung, Taiwan, December 14-16, 2009.
 62. Tan-Hsu Tan, Yung-Fa Huang and Jia-Yang Tsao, "Estimation of Carrier Frequency Offset for Generalized OFDMA Uplink Systems Using Particle Swarm Optimization Algorithms," in Proc. of the 10th International Symposium on Pervasive Systems, Algorithms and Networks (I-SPAN 2009), Kao-Hsiung, Taiwan, December 14-16, 2009.
 63. Yung-Fa Huang, T.-H. Tan, Y.-D. Wang, N.-C. Wang, and Ding Yin, "Analysis on an Energy Efficient Routing Algorithm for Wireless Sensor Networks," in Proc. of 2009 International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP2009), Taipei, Taiwan, 6-8 June, 2009. (EI)
 64. Tan-Hsu Tan, Yung-Fa Huang, Hsien-Ming Chiu, and Ching-Su Chang, "Enhancing Bluetooth Data Throughput Using a Mode/Packet Switching Scheme Based on ARQN Statistics," in Proc. of 2009 International Conference on Machine Learning and Cybernetics, pp. 2916-2921, Baoding, Hebei, China, 12-15 July 2009. (EI)
 65. Yung-Fa Huang, Tan-Hsu Tan, Y.-F. Chen, and C.-H. Cheng, "An Adaptive Fuzzy Logic Code Allocator for 2-D OVSF Coded OFCDM Communication Systems Over Dual Selective Fading Channels," in Proc. of 2009 International Conference on Machine Learning and Cybernetics (ICMLC), pp. 3030-3035, Baoding, Hebei, China, 12-15 July 2009. (EI)
 66. 黃永發、劉凱翔、譚旦旭、葉正明, 2008, "OFCDM 通訊系統之正交展頻碼簡易配置法在選頻選時性衰落通道之效能," 2008 電信研討會, Yunlin, Taiwan, Dec. 5-6, 2008.

67. 譚旦旭，張清樹，陳永福，黃永發，李明輝，徐錦池，應用 ZigBee、GPS、以及 WiMAX 技術建構緊急救護系統之研究，2008 年民生電子研討會，pp. 147-153, Dec. 5 2008。
68. 林佑任，譚旦旭，黃永發，依染色體績效進行突變之改良型基因演算法於非同步直序式超寬頻通訊系統多用戶偵測之應用研究，2008 年民生電子研討會，pp. 778-783, Dec. 5 2008。
69. 黃永發，劉凱翔，葉正明，王能中，譚旦旭，2008, “應用模糊控制器於 OFCDM 無線通訊系統之 2 維 OVFSF 碼配置,” 第 13 屆人工智慧與應用研討會(TAAI2008), Taipei, Taiwan, pp. 40-45, 20-21 Nov. 2008.
70. Yung-Fa Huang, Tan-Hsu Tan, Yau-Der Wang, Neng-Chung Wang and Liang-Chun Tai, "An Energy Efficient Cross-Layer Design for Wireless Sensor Networks," in Proc. 2008 International Computer Symposium, pp. 232-237, Nov. 13-15, Taipei, Taiwan, 2008.
71. Yung-Fa Huang, Tan-Hsu Tan and Wei-Cheng Lai, "A Genetic-Based Multi-User Detector for Multi-Carrier CDMA Communication Systems," in Proc. of 11th IEEE International Conference on Communications Systems (ICCS 2008), pp. 461-465, Nov. 19-21, Guangzhou, China, 2008.(EI)
72. Yung-Fa Huang, N.-C. Wang, Tan-Hsu Tan, and C.-M. Yeh, "Performance of Adaptive Fuzzy-Based Code Allocation for 2-D Spreading OFCDM Mobile Communication Systems," in Proc. of 2008 IEEE International Conference on Systems, Man, and Cybernetics (SMC08), pp. 938-943, Oct. 12-15, Singapore, 2008.(EI)
73. H.-L. Hung, Yung-Fa Huang, C.-M. Yeh, and Tan-Hsu Tan, "Performance of Particle Swarm Optimization Techniques on PAPR Reduction for OFDM Systems," in Proc. of 2008 IEEE International Conference on Systems, Man, and Cybernetics (SMC08), pp. 2390-2395, Oct. 12-15, Singapore, 2008.(EI)
74. Yung-Fa Huang, Tan-Hsu Tan, C.-H. Cheng and N.-C. Wang, 2008, "Performance of Power Line Communication Systems Using MC-CDMA Transmission Techniques," in Proc. of the 12th WSEAS International Conference on Communications, pp. 135-140, July 23-25, 2008, Heraklion, Greece.(EI)
75. 鄭凱文，林仁勇，譚旦旭，"EACH with Minimum Distance Cluster Head," 2008 資訊科技國際研討會, Taichung, Taiwan, April 25-26, 2008
76. 王耀德，譚旦旭，黃永發，2008, “無線感測網路之省電跨層演算法,” 2008 資訊科技國際研討會, Taichung, Taiwan, April 25-26, 2008.
77. 譚旦旭，張清樹，龔哲幀，阮威程，"整合 RFID 技術之餐飲自動化管理系統" ICIM 2008 第十九屆國際資訊管理學術研討會，May 16-17, 2008.
78. Tan-Hsu Tan, Yun-Chung Shen, and Yung-Fa Huang, "Performance Analysis of Multi-User DS-UWB System under Multipath Effects," in Proc. of the 12th WSEAS International Conference on Communications, pp. 117-122, July 23-25, 2008, Heraklion, Greece.(EI)
79. Ching-Su Chang, Hsing-Ton Chen, Tan-Hsu Tan, and Yung-Fu Cheng, "PC-based ECG Signal Analysis Using Artificial Neural Network," in Proc. of 2008 International Conference on Machine Learning and Cybernetics, pp. 3334-3340, Kunming, China, June 12-15, 2008. (EI)

80. Ching-Su Chang, Chen-Chen Kung, and Tan-Hsu Tan, "Development and Implementation of an e-Restaurant for Customer-Centric Service Using WLAN and RFID Technologies," in Proc. of 2008 International Conference on Machine Learning and Cybernetics, pp.3230-3235, Kunming, China, June 12-15, 2008. (EI)
81. Tan-Hsu Tan, Ching-Su Chang, Yung-Fu Chen, and Cheng Lee, "Implementation of a Portable Personal EKG Signal Monitoring System," in Proceedings of 2008 International Conference on Medical Biometrics, Jan. 4-5, 2008, Hong Kong. (EI).
82. 鄭秋君，譚旦旭，黃永發，"基於改良型粒子群演算法之直序式超寬頻多用戶偵測器" 2007 電信研討會，Nov. 23-24 2007。
83. 傅瑞翔，譚旦旭，"整合限制選擇型耙式接收器與基因演算法之直序式超寬頻多用戶偵測器之實現" 2007 電信研討會，Nov. 23-24 2007。
84. Ching-Su Chang, Hsing-Ton Chen, Tan-Hsu Tan and Yung-Fa Huang, "Personal Health Monitoring By PC-based ECG Signal Analysis," 2007 年民生電子研討會，Nov. 2 2007。
85. Yung-Fa Huang, Tan-Hsu Tan, and Nen-Chung Wang, "Performance of Adaptive Multistage Interference Canceller for Multi-Carrier CDMA Systems," in Proceedings of 2007 International Wireless Communications and Mobile Computing Conference, Hawaii, Aug. 2007. (EI)
86. Tsung-Yu Liu, Tan-Hsu Tan and Yu-Ling Chu (2007). "2D Barcode and Augmented Reality Supported English Learning System," in Proceedings of the 6th IEEE International Conference on Computer and Information Science (ICIS2007), pp. 5-10, July 11-13, Melbourne, Australia. (EI)
87. Tsung-Yu Liu, Yu-Ling Chu, Tan-Hsu Tan and Chi-Cheng Chang, "RFID-based Ubiquitous Learning Environment for Outdoor Learning," in Proceedings of the 7th IEEE International Conference on Advanced Learning Technologies (ICALT2007), pp. 675-677, July 18-20, Niigata, Japan. (NSC95-2520-S-027-002)(EI)
88. 王建棠，譚旦旭，"以 SAW ARQ-Based 適應型封包切換機制提升電力線通訊系統資料傳輸量" 2007 年民生電子研討會，Nov. 2 2007。
89. Yung-Fa Huang, Jen-Yung Lin, and Tan-Hsu Tan, "Performance of Partial Interference Canceller with STBC for MC-CDMA Systems," in Proc. of 2006 International Wireless Communications and Mobile Computing Conference, pp. 491-496, July 3-6, 2006, Vancouver, Canada. (EI)
90. Yung-Fa Huang, Tan-Hsu Tan, and Wei-Cheng Lai, "Performance of a GA-based interference cancellor for MC-CDMA communication systems over frequency selective fading channels," in Proceedings of 2006 IEEE International Conference on Systems, Man, and Cybernetics (SMC06), pp. 1933-1938, Oct. 8-11, Taipei, Taiwan. (EI)
91. San-Yuan Huang, Chin-Su Chang, and Tan-Hsu Tan, "Markov Model Parameters Optimization for Impulsive Noise over Power Line Communication Network," in Proceedings of 2006 IEEE International Conference on Systems, Man, and Cybernetics (SMC06), pp. 1570-1574, Oct. 8-11, Taipei, Taiwan. (EI)
92. Tan-Hsu Tan, Yung-Fa Huang, Chung-Wen Lin, and Ray-Hsiang Fu, "Performance Improvement of Multiuser Detection Using a Genetic Algorithm in DS-CDMA UWB Systems over an Extreme NLOS Multipath Channel," in

- Proceedings of 2006 IEEE International Conference on Systems, Man, and Cybernetics (SMC06), pp. 1945-1950, Oct. 8-11, Taipei, Taiwan. (EI)
93. Tan-Hsu Tan and Kuan-Chih Lin, "Performance of Space-Time Block Coded MB-OFDM UWB Systems," in Proceedings of 2006 Communication Networks and Services Research Conference (CNSR2006), pp. 323-327, Moncton, Canada. (EI)
 94. Tsung-Yu Liu, Tan-Hsu Tan, and Yu-Ling Chu, "The Ubiquitous Museum Learning Environment: Concept, Design, Implementation, and a Case Study," in Proceedings of the 6th IEEE International Conference on Advanced Learning Technologies (ICALT2006), pp. 989-991, 2006, Kerkraade, The Netherlands. (NSC 94-2520-S-027-002) (EI)
 95. 林寬智, 譚旦旭, "多輸入多輸出多頻帶正交分頻多工超寬頻通訊系統之效能分析" 2005 年民生電子研討會論文集。
 96. 葉國瀧, 譚旦旭, "藍芽 eSCO 封包之語音傳輸效能分析及 3GPPAMR 編碼技術於藍芽系統的應用研究" 2004 年民生電子研討會論文集。
 97. 陳銀城, 譚旦旭, 王新民, 蔡偉和, "藍芽無線環境下中文語音辨識效能之評估與分析" 第十六屆(2004)自然語言與語音處理研討會論文集 (ROCLING XVI: Conference on Computational Linguistics and Speech Processing), pp.219-228.
 98. Fei-Tsung Liu, Tan-Hsu Tan, and Yung-Fa Huang, "A Redundancy-Saving Genetic Algorithm for Multi-User Detection in DS-CDMA Systems," in Proceedings of 2004 IEEE International Conference on Systems, Man, and Cybernetics (SMC04), pp. 3588-3593. (EI)
 99. Tan-Hsu Tan and Tsung-Yu Liu, "The MOBILE-Based Interactive Learning Environment (MOBILE) and A Case Study for Assisting Elementary School English Learning," in Proceedings of 2004 IEEE International Conference on Advanced Learning Technologies (ICALT 2004), pp.530-534. (NSC92-2524-S-027-002) (EI)
 100. Tsung-Yu Liu and Tan-Hsu Tan, "The Design and Implementation of Web-based Instruction System for High School-WISH and Executing Status," in Proceedings of 2004 IEEE International Conference on Advanced Learning Technologies (ICALT 2004), pp.520-524. (NSC92-2524-S-027-002) (EI)
 101. Tan-Hsu Tan, Tsung-Yu Liu, and Kuan-Chih Lin "Planning and Designing of Mobile Learning System for Aiding Elementary School English Instruction and Assessment," in Proceedings of the 4th Workshop on Language and Technology, Feb. 2004. (NSC92-2524-S-027-002)
 102. 譚旦旭、王新富、何元傑、王冠驊、汪千綺、高逸竹, "語音辨識技術於藍芽通訊環境之應用研究" 2003 年民生電子研討會論文集。
 103. 譚旦旭、邱賢明、黃永發、張清樹, "基於通道估計技術之藍芽系統最適封包選擇策略" 2003 年民生電子研討會論文集。
 104. 譚旦旭、葉國瀧、魏任邦, "藍芽之影音傳輸效能分析及其在行動視訊電話系統之應用研究" 2003 年民生電子研討會論文集。
 105. Tan-Hsu Tan, Tsung-Yu Liu, and Kuan-Chih Lin, "Design and Implementation of Mobile Learning System for Aiding Elementary School English Instruction and Assessment," in Proceedings of 2003 International Conference on Informatics, Cybernetics, and Systems. (NSC92-2524-S-027-002)

106. Yung-Fa Huang, Shin-Kuan Chen, and Tan-Hsu Tan, "An Adaptive Multistage Partial Parallel Interference Canceller for Multi-Carrier CDMA Systems," in Proceedings of 2003 International Conference on Informatics, Cybernetics, and Systems. (NSC 91-2213-E-235-002)
107. Tan-Hsu Tan, Shih-Wei Chang, and Chung-Ho Yang, "Performance Evaluation and Improvement of Speaker Recognition over GSM Environment," in Proceedings of 37th IEEE International Carnahan Conference on Security Technology (ICCST), pp.440-443, 2003. (EI)
108. 譚旦旭、魏任邦、白振祥、葉國瀧，"架構於 Web 服務、藍芽與 GSM 簡訊之居家健康照護系統設計與實現" 2002 年民生電子研討會，清華大學，Proc. 3，pp.169-173，民國 91 年 12 月 16 日。
109. 簡福榮、譚旦旭、張民昌、王崇安，"多媒體通訊網路上具語音轉換與速度控制之多樣位元率伸展特性的語音編碼器設計" 2002 年民生電子研討會，清華大學，Proc. 2，pp.179-182，民國 91 年 12 月 16 日。(NSC-90-2213-E-027-009)
110. 譚旦旭、王振興、洪群翔、陳定宇、周逸民，"基於無線通訊協定(WAP)之行動校園資訊服務系統設計與製作" 2002 年民生電子研討會，清華大學，Proc. 2，pp.174-178，民國 91 年 12 月 16 日。(NSC-90-2213-E-027-008)
111. 高永安，譚旦旭，黃紹華，張世維，"GSM 免持聽筒語音資料庫之建置與語者確認效能評估" 2002 年全國電信研討會，暨南大學，vol. 2，pp. II-158-II-162，民國 91 年 12 月 6-7 日。
112. 譚旦旭、郭天穎、翁文舉、魏任邦，"基於多種無線通訊協定之雙向遠端監控系統設計與實現" 2002 年全國電信研討會，暨南大學，pp. I-489-I-494，民國 91 年 12 月 6-7 日。
113. 陳建吉，黃紹華，譚旦旭，"G.729 計算量之簡化" 第七屆人工智慧與應用研討會，朝陽大學，pp. 769-773，民國 91 年 11 月 15 日。
114. 陳建吉，黃紹華，譚旦旭，"G.729 固定碼本搜尋之簡化法" 2002 數位生活與網際網路科技研討會，pp. 4E1-4E4，成功大學，民國 91 年 6 月 27-28 日。
115. 邱賢明，魏任邦，譚旦旭，"提升藍芽系統資料傳輸量之適應性封包選擇策略" 第七屆人工智慧與應用研討會，朝陽大學，pp. 774-778，民國 91 年 11 月 15 日。
116. Tan-Hsu Tan, Cheng-Hsiung Wu, and Fu-Rong Jean, "Effects of GSM Speech on Text-Dependent Speaker Verification," in Proceedings of 2001 National Computer Symposium (NCS'01), pp. D163-D167, Dec. 2001.
117. 翁文舉，譚旦旭，曾傳蘆，王振興 "基於 FLEX 無線傳呼協定之遠端控制介面製作與應用" 第六屆人工智慧與應用研討會論文集，pp. 23~28，中山大學，民國 90 年 11 月 9 日。
118. 洪郡志，洪群翔，黃紹華，譚旦旭，"網路電信局設計與實作" 第六屆人工智慧與應用研討會論文集，pp. 465~468，中山大學，民國 90 年 11 月 9 日。
119. 翁正平，簡福榮，譚旦旭 "具語者轉換功能之語音編碼器" 2000 年全國電信研討會論文集，pp. 2-47~2-52，中原大學，民國 89 年 12 月 15-16 日。

120. 陳嘉峰，譚旦旭，簡福榮 ”應用隱藏式馬可夫模型之語者確認系統設計” 2000 年暨第五屆全國電腦與通信研討會論文集， pp. 4C-22~4C-26，大葉大學，民國 89 年 10 月 6-7 日。
121. Wen-Whei Chang, Heng-Iang Hsu and Tan-Hsu Tan, “Automated Cryptanalysis of Bandsplitter-Based Speech Scramblers,” Proceedings of 1998 Taiwan-Japan Joint Workshop on the Latest Development of Telecommunication Research (TJCOM98), pp.119-122, Hsinchu, Taiwan, R.O.C., January 1998.
122. Tan-Hsu Tan and Wen-Whei Chang, “A Binary Channel Characterization Using Genetic Algorithm,” Proceedings of 1998 Taiwan-Japan Joint Workshop on the Latest Development of Telecommunication Research (TJCOM98), pp. 29-34, Hsinchu, Taiwan, R.O.C., January 1998.
123. Fu-Rong Jean and Tan-Hsu Tan, “Speech Spectrum Coding for Noisy Channels,” Proceedings of Workshop on Consumer Electronics: Digital Video and Multimedia (WCE’97), pp. A1-1/1-A1-1/6, Taipei, Taiwan, R.O.C., October 1997.
124. Wen-Whei Chang and Tan-Hsu Tan, “Statistical Characterization of Error Sequences and Its Applications to Error Control,” Proceedings of IEEE Region Ten Conference on Digital Signal Processing Applications (TENCON’96), volume 2, pp. 625-629, Perth, Australia, November 1996.
125. Tan-Hsu Tan and Wen-Whei Chang, “Estimation of Gilbert’s Model Parameters Using the Simulated Annealing Method,” Proceedings of the Seventh IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC’96), volume 3, pp.1226-1229, Taipei, Taiwan, R.O.C., October 1996.
126. Tan-Hsu Tan and Wen-Whei Chang, “Statistical Characterization of Error Sequences and Its Applications to Speech Digitization,” Proceedings of the International Symposium on Communications, volume 1, pp.263-269, Taipei, Taiwan, R.O.C., December 1995. (NSC 84-2221-E009-011)

專利

1. 譚旦旭、簡福榮，"知能障礙的治療方法與系統"，中華民國發明專利第 I 644283 號，2018.12.11-2037.2.28。
2. 譚旦旭、黃雯鈺、簡福榮、桑茂森、郭乃瑋，"日常活動監測系統"，中華民國新型專利，新型第 M553852 號，2018.1.1-2027.9.14。
3. 譚旦旭、簡福榮，"日常活動監測系統"，中華民國新型專利，新型第 M503630 號，2015.6.21-2024.8.28。
4. 譚旦旭、張清樹、龔哲幀，"餐飲管理系統" 中華民國新型專利，新型第 M418351 號，2011.12.11-2018.2.13。
5. 譚旦旭、劉宗瑜，應用識別標籤之數位學習系統與學習方法，中華民國新型專利，新型第 M 387332 號，2010.8.21-2017.4.16。
譚旦旭、楊中和、魏任邦，"透過網際網路傳輸藍芽無線通訊封包的系統" 中華民國發明專利第 I 264905 號、2006/10/21~2023/12/7。
6. " 中華民國發明專利第 I 264905 號、2006/10/21~2023/12/7。