

研究獎勵

國科會八十六學年度甲種研究獎
國科會八十七學年度甲種研究獎
國科會九十學年度計畫研究獎勵費
國科會九十一學年度計畫研究獎勵費
國科會九十二學年度計畫研究獎勵費
國科會九十五學年度計畫研究獎勵費
國科會九十七學年度計畫研究獎勵費

證照

室內配線乙級技術士
工業配線乙級技術士

專題研究

李俊典、范澤崴、胡晉嘉，「2.4GHz無線影像傳輸遙測之系統評估」，2006
史景文、黃國書、余殷亘，「嵌入式系統與應用」，2007
徐睿賢、陳炫安、陳柏儒、林易霖，「嵌入式系統」，2008
王彥閔、周育緯、游傑安、李維庭，「無線通訊之嵌入式系統應用」，2008

碩士論文

朱得銘，「利用合成陣列技術進行雷達影像方位方向之聚焦處理」，國際電機電子工程師學會地球科學與遙感探測學會台北支會2006年最佳學生論文獎
邱順興，「利用碎片維度於合成徑雷達影像之變遷偵測」，國際電機電子工程師學會地球科學與遙感探測學會台北支會2007年最佳學生論文獎
陳靜儀，「利用碎片維度於合成徑雷達影像之變遷偵測」，國際電機電子工程師學會地球科學與遙感探測學會台北支會2008年最佳學生論文獎

研習

九十四學年度，「問津與渡口教師座談會」
九十四學年度，「推動工程及科技教育認證實務研討會」

服務

九十四學年度系主任、班級導師、電子系學會指導老師
九十四學年度系教師評審委員會委員、系學術委員會委員、系招生委員會委員、系研究生事務委員會委員
九十四學年度院教師評審委員會委員、院課程委員會委員、院務會議代表
九十四學年度校務會議代表、行政會議代表、教務會議代表、學生事務會議委員
九十五學年度系主任、師徒導師、電子系學會指導老師

九十五學年度系教師評審委員會委員、系學術委員會委員、系招生委員會委員、系研究生事務委員會委員、系課程委員會委員

九十五學年度院教師評審委員會委員、院課程委員會委員、院務會議代表

九十五學年度校務會議代表、行政會議代表、教務會議代表、學生事務會議委員

九十六學年度師徒導師

九十六學年度系教師評審委員會委員、系學術委員會委員、系課程委員會委員

九十六學年度院教師評審委員會委員、院課程委員會委員、院務會議代表

九十七學年度系教師評審委員會委員、系學術委員會委員

九十七學年度院教師評審委員會委員、院學術委員會委員、院務會議代表

九十八學年度系教師評審委員會委員、系務發展委員會委員

九十八學年度院教師評審委員會委員、院學術委員會委員、院務會議代表

九十八學年度校教師評審委員會委員

專題演講

台北科技大學電機系碩士班，「空間混沌模型於合成口徑雷達影像之應用」

(98/4/1)

聯合大學電機系碩士班，「空間混沌模型於合成口徑雷達影像之應用」(98/9/24)

聯合大學電子系碩士班，「空間混沌模型於合成口徑雷達影像之應用」(98/10/21)

其他

IEEE Geoscience and Remote Sensing Society

資深會員

IEEE Antenna and Propagation Society

會員

IEE PROCEEDINGS-H Microwaves, Antennas and Propagation
年)

論文評審(1992

International Journal of Remote Sensing
年)

論文評審(1998

IEEE Transactions on Geoscience and Remote Sensing
~)

論文評審(1998年

航測及遙測學刊
~)

論文評審(2002年

Journal of the Chinese Institute of Engineers
年)

論文評審(2007

Journal of Selected Topics in Earth Observations and Remote
Sensing
年)

論文評審(2009

2000自動控制研討會 年)	論文評審 (1999
2008 IEEE Global Telecommunications Conference 年)	論文評審 (2008
2008全國電信研討會(NTS2008) 年)	論文評審 (2008
IEEE International Geoscience and Remote Sensing Symposium 年)	論文評審 (2009
國科會航太學門 年)	計劃評審 (2001
國科會航太學門 年)	計劃評審 (2002
教育部技專校院與產業園區產學合作計畫 年)	評審委員 (2006
教育部技專校院與產業園區產學合作計畫 年)	評審委員 (2007
教育部技專校院與產業園區產學合作計畫 年)	評審委員 (2008
City University of Hong Kong Research Committee 年)	計劃評審 (2008
1999 Progress In Electromagnetics Research Symposium	協辦
九十六年醒吾技術學院送審助理教授論文審查委員	
九十四學年度中央大學碩士班研究生姚登元、吳孟宸學位考試委員	
九十六學年度中央大學碩士班研究生王偉丞、游承翰、劉其翰學位考試委員	
九十七學年度中央大學碩士班研究生李國豪、林文勇、陳文昇學位考試委員	
九十四學年度聯合大學碩士班研究生朱得銘、莊志賢學位考試委員	
九十五學年度聯合大學碩士班研究生邱順興學位考試委員	
九十六學年度聯合大學碩士班研究生陳靜儀學位考試委員	
國際電機電子工程師學會地球科學與遙感探測學會台北支會2006年最佳學生論文獎評選委員	
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國際電機電子工程師學會地球科學與遙感探測學會台北支會2008年最佳學生論文獎評選委員	

研究計劃

- 共同主持人 國科會83年度計劃：「動態學習神經網路應用於微波遙測：參數反算及影像分析」
- 共同主持人 國科會84-86年度整合計劃：「遙測影像之整合與地表覆蓋變遷偵測之應用」之子計劃：「合成口徑雷達影像之輻射校正與影像分析」
- 共同主持人 農委會84-85年度計劃：「利用合成口徑雷達影像資料估算土壤濕度」
- 協同主持人 國科會太空計畫室84年度計劃：「衛星測試台遙傳與指令模組之研發」
- 協同主持人 國科會85年度計劃：「動態學習神經網路於GPS定位精度及最佳化路徑規劃研究」
- 主持人 國科會85年度計劃：「模糊神經網路應用於衛星資料之處理--以衛星影像的分類為例」
- 主持人 國科會86年度計劃：「降雨衰減之理論模式於衛星通訊之應用(一)」
- 主持人 國科會太空計畫室86年度計劃：「適應性降雨衰減補償」
- 主持人 教育部86年度計劃：「通訊科技教育改進計畫」
- 主持人 國科會87年度計劃：「降雨衰減之理論模式於衛星通訊之應用(二)」
- 共同主持人 經濟部工業局87年度計劃：「聯基昌機械工業股份有限公司—自動化機械輔助設計與管理系統之建立」
- 共同主持人 國科會88年度計劃：「利用動態學習神經網路探討PTCR的交流電氣特性」
- 協同主持人 研考會88年度計劃：「擴大國內需求方案加速推動便民服務—縣市政府山坡地管理」
- 主持人 國科會89年度計劃：「利用卡曼濾波器技術由多時序雷達量測來估計與預測土壤溼度」
- 協同主持人 國科會89年度計劃：「新型超音波馬達之研發及類神經網路控制」
- 主持人 國科會90年度計劃：「地面遙測影像雷達系統之研製與應用—子計畫五：數位信號處理演算法及其軟硬體之研製(1/3)」
- 主持人 國科會91年度計劃：「地面遙測影像雷達系統之研製與應用—子計畫五：數位信號處理演算法及其軟硬體之研製(2/3)」
- 主持人 國科會92年度計劃：「地面遙測影像雷達系統之研製與應用—子計畫五：數位信號處理演算法及其軟硬體之研製(3/3)」
- 主持人 國科會95年度計劃：「利用採取修正之和演算法的多分類器系統來改善遙測影像分類的準確率」
- 主持人 國科會97年度計劃：「合成口徑雷達差分干涉技術於台灣沿海地區地層下陷研究」
- 主持人 國科會98年度計劃：「利用MODIS衛星資料反演及預測地表溫度及土壤含水量」

PUBLICATION LIST

期刊論文

1. Y. C. Tzeng, and K. T. Fan, 2009, "Classifications of Multisource Remote Sensing Images," *Journal of Information Science and Engineering*, submitted. (SCI)
2. Y. C. Tzeng, K. T. Fan, and K. S. Chen, 2009, "Mapping Floods from Bi-temporal SAR Images Based on a Spatial Chaotic Model," *Journal of the Chinese Institute of Engineers*, submitted. (SCI)
3. Y. C. Tzeng, K. T. Fan, and K. S. Chen, 2009, "An Adaptive Thresholding Multiple Classifiers System for Remote Sensing Image Classification," *Photogrammetric Engineering & Remote Sensing*, vol. 75, no. 6, pp.679-689. (SCI)
4. N. S. Chou, Y. C. Tzeng, K. S. Chen, C. T. Wang and K. C. Fan, 2009, "On the application of a spatial chaotic model for detecting landcover changes in synthetic aperture radar images," *Journal of Applied Remote Sensing*, vol.3, 033512, pp. 1-16.
5. Y. C. Tzeng, 2008, "Distance Weighted Multiple Classifiers Systems Applied to Remote Sensing Images Classification/ Data Fusion," *Journal of the Chinese Institute of Engineers*, vol.31, no.4, pp.639-641. (SCI)
6. Y. C. Tzeng, and K. S. Chen, 2007, "Change Detection in Synthetic Aperture Radar Images Using a Spatial Chaotic Model," *Optical Engineering*, vol.46, no.8, pp. 086202-1~086202-9. (SCI)
7. Y. C. Tzeng and Kun-Shan Chen, 2007, "A New Weighting Scheme with Multiple Classifiers Fusion for Image Classification" *Journal of Photogrammetry and Remote Sensing*, vol.12, no. 4, pp. 509-526.
8. Y. C. Tzeng and Shun-Hsing Chiu, 2007, "Change Detections from SAR Images for Damage Estimation Based on a Spatial Chaotic Model" *Journal of Photogrammetry and Remote Sensing*, vol.12, no. 4, pp. 283-290.
9. Y. C. Tzeng, Kun-Shan Chen and N. S. Chou, 2007, "Using Modified Bagging and Boosting Algorithms in Multiple Classifiers System for Remote Sensing Image Classification," *Journal of Photogrammetry and Remote Sensing*, vol. 12, no.3, pp. 241-256.

10. Y. C. Tzeng, and D. M. Chu, 2007, "Radar Image Focusing Process in Azimuth Direction Using Synthetic Array Technique," *Journal of Photogrammetry and Remote Sensing*, vol. 12, no.2, pp. 133-144.
11. Y. C. Tzeng, and K. S. Chen, 2006, "SAR Target Detection Using Neural Network with Fractal Dimension," *Optical Engineering*, vol.45, no. 7, pp. 07702-1~07702-6. (SCI)
12. Y. C. Tzeng, and D. M. Chu, 2006, "Estimation and Prediction of Soil Moisture from Multi-temporal Radar Measurements Based on the Kalman Filter Technique," *Journal of Photogrammetry and Remote Sensing*, vol. 11, no.2, pp. 127-141.
13. Y. C. Tzeng, and N. S. Chou, 2005, "The Algorithmic Parameters of a Fuzzy Dynamic Learning Neural Network," *Journal of Photogrammetry and Remote Sensing*, vol. 10, no. 2, pp.213-224.
14. Y. C. Tzeng, and K. S. Chen, 2005, "Image Fusion of Synthetic Aperture Radar and Optical Data for Terrain Classification with a Variance Reduction Technique," *Optical Engineering*, vol.44, no. 10, pp. 106202-1~106202-8. (SCI)
15. Y. C. Tzeng, and N. S. Chou, 2004, "Comparisons of Rain Rate Prediction Models," *Journal of Photogrammetry and Remote Sensing*, vol. 9, no. 4, pp.71-81.
16. Y. C. Tzeng, N. S. Chou, Y. C. Wei and K. S. Chen, 2003, "衛星雷達水災監視系統," *聯合學報*, vol. 22, pp. 133-144.
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18. H. C. Chen, J. I. Guo and Y. C. Tzeng, 2000, "動態學習類神經網路於元件資料庫中基本邏輯閘時間延遲特性化之研究," *聯合學報*, vol. 17, pp. 105-114.
19. K. S. Chen, Y. C. Tzeng and P. C. Chen, 1999, "Retrieval of ocean winds from satellite scatterometer by a neural network," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 37, no. 1, pp. 247-256. (SCI)
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Proceedings of the National Science Council - Part A: Physical Science and Engineering, vol. 23, no. 4, pp. 511-517. (EI)

21. Y. A. Liou, Y. C. Tzeng, and K. S. Chen, 1999, "A Neural Network Approach to Radiometric Sensing of Land Surface Parameters," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 37, no. 6, pp. 2718-2724. (SCI)
22. Y. C. Tzeng and K. S. Chen, 1998, "A Fuzzy Neural Network to SAR Image Classification," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 36, no. 1, pp. 301-307. (SCI)
23. Y. C. Tzeng and K. S. Chen, 1998, "Fuzzy Neural Network for Satellite Data Processing — SAR Image Classification," *Proceedings of the National Science Council - Part A: Physical Science and Engineering*, vol. 22, no. 2, pp. 243-250. (EI)
24. Y. C. Tzeng, "A SAR Interferometry Simulator, 1997," *Proceedings of the National Science Council - Part A: Physical Science and Engineering*, vol. 21, no. 3, pp. 244-252. (EI)
25. Y. C. Tzeng and K. S. Chen, 1997, "Integration of SPOT and SAR Fractal Images for Terrain Cover Classification," *Journal of the Chinese Institute of Engineers*, vol. 20, no. 5, pp. 593-602. (SCI)
26. H. C. Chen and Y. C. Tzeng, 1997, "Image mosaic and change detection using dynamic learning neural network," *Journal of Technology*, vol. 12, no. 4, pp. 601-608.
27. Y. C. Tzeng, and K. S. Chen, 1996, "A dynamic learning neural network," *Proceedings of the National Science Council - Part A: Physical Science and Engineering*, vol. 20, no. 2, pp. 166-173. (EI)
28. K. S. Chen, D. H. Tsay, W. P. Huang and Y. C. Tzeng, 1996, "Remote sensing image segmentation using a Kalman filter-trained neural network," *International Journal of Imaging Systems and Technology*, vol. 7, pp. 141-148. (SCI)
29. K. T. Fan and Y. C. Tzeng, 1996, "動態學習神經網路應用於元件參數的萃取," *聯合學報*, vol. 14, pp. 217-230.
30. K. S. Chen, Y. C. Tzeng, C. F. Chen and W. L. Kao, 1995, "Land-cover classification of multispectral imagery using a dynamic learning neural network," *Photogrammetric Engineering and Remote Sensing*, vol. 61, no. 4, pp. 403-408. (SCI)

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32. Y. C. Tzeng, K. S. Chen, W. L. Kao, and A. K. Fung, 1994, "A dynamic learning neural network for remote sensing applications," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 32, no. 5, pp. 1096-1102. (SCI)
33. Y. C. Tzeng and A. K. Fung, 1994, "T-matrix approach to multiple scattering from N-spheres," *Journal of Electromagnetic Wave and Applications*, vol. 8, no. 1, pp. 61-84. (SCI)
34. Y. C. Tzeng, S. Tjuatja, and A. K. Fung, 1994, "Scattering from a volume of N spheres with application to backscattering from snow," *Remote Sensing Reviews*, vol. 9, pp. 65-75. (EI)
35. H. C. Chen and Y. C. Tzeng, 1994, "內含空間訊息的多頻譜影像分類," *聯合學報*, vol. 12, pp. 117-135.
36. H. C. Chen and Y. C. Tzeng, 1993, "仿視網膜與動態學習類神經演算法於靜態邊緣辨認之研究," *聯合學報*, vol. 11, pp. 121-146.

研討會論文

1. Y. C. Tzeng, K. T. Fan, Y. J. Su, and Kun-Shan Chen, 2009, "A Parallel Differential Box Counting Algorithm Applied to Hyperspectral Image Classifications," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium, (IGARSS'09)*, July 12-17, Cape Town, South Africa, accepted. (EI)
2. Ken-Chung Ho, Yu-Chang Tzeng, Chun-Long Woo, 2009, "Markov Random Field Model-Based Soil Moisture Content Segmentation from Modis Satellite Data," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium, (IGARSS'09)*, July 12-17, Cape Town, South Africa, accepted. (EI)
3. Y. C. Tzeng, Dana Chen, and Kun-Shan Chen, 2008, "Integration of Spatial Chaotic Model and Type-2 Fuzzy Sets for SAR Images Change Detection," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium, (IGARSS'08)*, July 6-11, Boston, MA, USA, pp. IV-655~IV-658. (EI)

4. Y. C. Tzeng, Dana Chen, and Kun-Shan Chen, 2008, "Integration of Spatial Chaotic Model and Type-2 Fuzzy Sets to Coastline Detection in SAR Images," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, (IGARSS'08), July 6-11, Boston, MA, USA, pp. I-430~I-433. (EI)
5. Y. C. Tzeng, S. H. Chiu, Dana Chen, and Kun-Shan Chen, 2007, "Change Detections from SAR Images for Damage Estimation Based on a Spatial Chaotic Model," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, (IGARSS'07), July 23-27, Barcelona, Spain, pp. 1926-1930. (EI)
6. Y. C. Tzeng, S. H. Chiu, Dana Chen, and Kun-Shan Chen, 2007, "Multisource Remote Sensing Images Classification/ Data Fusion Using a Multiple Classifiers System Weighted by a Neural Decision Maker," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, (IGARSS'07), July 23-27, Barcelona, Spain, pp. 3069-3073. (EI)
7. Y. C. Tzeng, 2006, "Remote Sensing Images Classification/ Data Fusion Using Distance Weighted Multiple Classifiers Systems," *Proceedings of the International Conference on Parallel and Distributed Computing, Applications and Technologies* (PDCAT'06), December 4-7, Taipei, Taiwan ROC, pp. 56-60. (EI)
8. Y. C. Tzeng, 2006, "Engineering Accreditation in the Department of Electronic Engineering at National United University," *Proceedings of 2006 Japan-Taiwan International Conference on Engineering Education and International Exchange* (JTCEI 2006), December 12-14, Kisarazu, Japan, pp. 87-88.
9. Y. C. Tzeng, S. H. Chiu, and Kun-Shan Chen, 2006, "Improvement of Remote Sensing Image Classification Accuracy by Using a Multiple Classifiers System with Modified Bagging and Boosting Algorithms," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, (IGARSS'06), July 31- August 4, Denver, Colorado, pp. 2769-2772. (EI)
10. Y. C. Tzeng, S. H. Chiu, and Kun-Shan Chen, 2006, "Automatic Change detections from SAR images using fractal dimension," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, (IGARSS'06), July 31- August 4, Denver, Colorado, pp. 759-762. (EI)

11. Cheng-Yen Chiang, Kun-Shan Chen, Tzong-Dar Wu, Chi-Huei Tseng, and Y. C. Tzeng, 2005, "SAR Images Feature Enhanced using a Modified CG Method," 2005 海峽兩岸遙感研討會, August 15-21, QunMing, China.
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