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	研究領域：	微電網系統、再生能源、智慧型控制、電力電子

※個人學歷：

學校名稱	國別	主修學門系所	學位	起訖年月 (西元年/月)
國防大學 理工學院	中華民國	國科所電子組	博士	自 2009/08 至 2013/06
國防大學 理工學院	中華民國	電子工程研究所	碩士	自 2005/09 至 2007/06
國防大學 中正理工學院	中華民國	電機工程學系	學士	自 1998/07 至 2002/07

※個人經歷：

服務機構	服務部門/系所	職稱	起迄年月(西元年/月
國防大學理工學院	電機電子系	助理教授	自 2013/06 迄今

※研究領域：

1. 微電網	2. 風力發電系統	3. 智慧型控制	4. 電力電子

※教授課程：

大學部	1. 電機機械	2. 模糊系統及控制
	3. 電動機控制	4. 電力電子學
碩士班	1. 電力電子學	2. 模糊理論與應用

※ 論文著述

(A) 期刊論文

項次	年度	發表著作	收錄資料庫
1	105	Faa-Jeng Lin, **Kuang-Hsiung Tan**, Chia-Hung Tsai, "Improved differential evolution-based Elman neural network controller for squirrel-cage induction generator system," *IET Renewable Power Generation*, vol. 10, no. 7, pp. 988-1001, 2016. (IF: 1.562)	SCI
2	105	**Kuang-Hsiung Tan**, "Squirrel cage induction generator system using wavelet Petri fuzzy neural network control for wind power applications," *IEEE Trans. Power Electronics*, vol. 31, no. 7, pp. 5242-5254, 2016. (IF: 4.953)	SCI
3	105	Chih-Chan Hu, Yuan-Fong Chou Chau, CheeMing Lim, **Kuang-Hsiung Tan**, "Comparative study of low-frequency noise in 0.18 μm and 0.35 *μm* gate-length nMOSFETs with gate area of 1.1 μm^2," *Microelectronics Reliability*, vol. 60, pp. 10-15, 2016. (IF: 1.202)	SCI
4	105	**Kuang-Hsiung Tan**, Chih-Chan Hu, Chien-Wu Lan, Shih-Sung Lin, and Te-Jen Chang, "Active Islanding Detection Method Using Intelligent Controller," *International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering*, vol. 10, no. 5, pp. 580-586, 2016.	
5	104	Faa-Jeng Lin, Yi-Sheng Huang, **Kuang-Hsiung Tan**, and Yung-Ruei Chang, "Active islanding detection method via current injection disturbance using Elman neural network," *Journal of the Chinese Institute of Engineer*, vol. 38, no. 4, pp. 517-535, 2015. (IF: 0.246)	SCI
6	104	Faa-Jeng Lin, **Kuang-Hsiung Tan**, and Dun-Yi Fang, "Squirrel-cage induction generator system using hybrid wavelet fuzzy neural network control for wind power applications," *Neural Computing and Applications*, vol. 26, no. 4, pp. 911-928, 2015. (IF: 1.492)	SCI
7	104	Shan-Jen Cheng, Te-Jen Chang, **Kuang-Hsiung Tan** and Shou-Ling Kuo, "Nonlinear modeling of the PEMFC based on NNARX approach," *International Journal of Computer, Electrical, Automation, Control and Information Engineering*, vol. 9, no. 5, pp. 1204-1208, 2015.	

8	102	Faa-Jeng Lin, Yi-Sheng Huang, **Kuang-Hsiung Tan**, Jian-Hsing Chiu, and Yung-Ruei Chang, "Active islanding detection method using D-axis disturbance signal injection with intelligent control," *IET Generation Transmission and Distribution*, vol. 7, no. 5, pp. 537-550, 2013. (IF: 1.576)	SCI
9	102	Faa-Jeng Lin, Yi-Sheng Huang, **Kuang-Hsiung Tan**, Zong-Han Lu, and Yung-Ruei Chang, "Intelligent-Controlled Doubly Fed Induction Generator System Using PFNN," *Neural Computing and Applications*, vol. 22, no. 7-8, pp. 1695-1712, 2013. (IF: 1.492)	SCI
10	102	Faa-Jeng Lin, **Kuang-Hsiung Tan**, Dun-Yi Fang, and Yih-Der Lee, "Intelligent controlled three-phase squirrel-cage induction generator system using wavelet fuzzy neural network for wind power," *IET Renewable Power Generation*, vol. 7, no. 5, pp. 552-564, 2013. (IF: 1.5622)	SCI
11	101	Faa-Jeng Lin, Jonq-Chin Hwang, **Kuang-Hsiung Tan**, Zong-Han Lu, and Yung-Ruei Chang, "Intelligent control of doubly-fed induction generator systems using PIDNNs," *Asian Journal of Control*, vol. 14, no. 3, pp. 768-783, 2012. (IF: 1.407)	SCI

(B) 研討會論文

項次	年度	發表著作
1	105	**Kuang-Hsiung Tan**, Chih-Chan Hu, Chien-Wu Lan, Shih-Sung Lin, and Te-Jen Chang, "Active Islanding Detection Method Using Intelligent Controller," *Proceedings of 18th International Conference on Electrical Engineering and Technology*, May 26-27, 2016, Tokyo, Japan, pp. 3722-3728.
2	105	Chien-Wu Lan, Shih-Sung Lin, Hsiang-Yu Yang, **Kuang-Hsiung Tan** and Jo-Yen Nieh, "The mobile robot remote control by using stereo vision system," *Proceedings of the 2016 International Conference on Engineering and Applied Sciences*, February 18-20, 2016, Singapore, pp. 205-212.
3	104	Faa-Jeng Lin and **Kuang-Hsiung Tan**, "Squirrel-cage induction generator system using probabilistic fuzzy neural network for wind power applications," *Proceedings of the 2015 IEEE International Conference on Fuzzy System*, August 2-5, 2015, Istanbul, Turkey, pp. 1-8.
4	104	Shan-Jen Cheng, Te-Jen Chang, **Kuang-Hsiung Tan** and Shou-Ling Kuo, "Nonlinear modeling of the PEMFC based on NNARX approach," *Proceedings of the 17th International Conference on Systems Science and Engineering*, May 28-29, 2015, Tokyo, Japan, pp.1-5.
5	104	Te-Jen Chang, **Kuang-Hsiung Tan**, Ping-Sheng Huang, Ching-Yin Chen, and I-Hui Pan, "A strategy speeds up the triple modular exponentiation," *Proceedings of the 2015 International Conference on Digital Information Processing, Data Mining, and Wireless*

		Communications, January 29-30, 2015, Dubai, UAE, pp.1-8.
6	102	林法正、**談光雄**，“以PSIM模擬微型電網之運轉與控制”，第22屆國防科技研討會，桃園，龍潭，11月15日，2013
7	102	Faa-Jeng Lin, **Kuang-Hsiung Tan** and Dun-Yi Fang, “Squirrel-cage induction generator system using intelligent control for wind power applications,” *Proceedings of the 2013 IEEE International Conference on Fuzzy System*, July 7-10, 2013, Hyderabad, pp.1-8.
8	101	Faa-Jeng Lin, **Kuang-Hsiung Tan** and Jian-Hsing Chiu, “Active islanding detection method using wavelet fuzzy neural network,” *Proceedings of the 2012 IEEE International Conference on Fuzzy System*, June 10-15, 2012, Brisbane, Queensland, pp. 1-8.
9	100	Faa-Jeng Lin, **Kuang-Hsiung Tan**, Zong-Han Lu, and Yung-Ruei Chang, “Control of doubly-fed induction generator system ssing PFNN,” *Proceedings of the 2011 IEEE International Conference on Fuzzy System*, June 27-30, 2011, Taipei, Taiwan, pp. 2614-2621, 2011.
10	99	林法正、**談光雄**、呂宗翰、邱建興、方敦毅，“利用PFNN智慧型控制雙饋式感應風力發電系統之研製”，2010臺灣風能學術研討會，澎湖，12月17日，2010.
11	99	Faa-Jeng Lin, Jonq-Chin Hwang, **Kuang-Hsiung Tan**, Zong-Han Lu, and Yung-Ruei Chang, “Control of doubly-fed induction generator system using PIDNNs,” *Proceedings of the 2010 Ninth International Conference on Machine Learning and Applications*, Dec. 12-14, 2010, Washington, USA, pp. 675-680, 2010.

※ 研究計畫

計畫名稱	補助單位	負責職務	執行期間	狀態
感應發電機結合小波派翠模糊類神經網路於風力發電系統研究 (Induction generator system using wavelet petri fuzzy neural network control for wind power applications) MOST 105-2221-E-606-011-	科技部	主持人	2016.8~2017.7	執行中
結合改良型差分演算法與 Elman 類神經網路控制器之鼠籠式感應風力發電系統研究 (Improved differential evolution based Elman neural network controller for squirrel-cage induction generator system)	科技部	主持人	2015.8~2016.7	已結案

MOST 104-2221-E-606-003 -				
運用擾動訊號結合機率模糊類神經網路之主動式孤島偵測法研究 (Active islanding detection method using disturbance signal injection with PFNN) MOST 103-2221-E-606 -006 -	科技部	主持人	2014.7~2015.9	已結案
利用智慧型控制改善三相不平衡負載之電力品質調控 (Power quality improvement of three-phase unbalanced load using intelligent control) NL1050154	核能研究所	共同主持人	2016.2~2016.11	執行中
利用智慧型控制之微電網電力品質提升研析 (Power quality improvement of microgrid using intelligent control) NL1040300	核能研究所	共同主持人	2015.4~2015.12	已結案
分散型電力系統即時模擬分析及特殊保護技術建立 (Real-time simulation analyses and establishments of special protection technologies of distributed generator systems) 1032001INER031	核能研究所	共同主持人	2014.1~2014.12	已結案
微電網智慧電能控制與管理 (Intelligent electric power control and management for microgrid) 1022001INER036	核能研究所	共同主持人	2013.8~2013.12	已結案