

## \* 經歷

國立虎尾科技大學 飛機工程系/航空與電子科技研究所 教授兼副系主任暨航電組召集人 (2016/8 - 2017/7)  
英國倫敦大學 國王學院(King's College London) 電子工程系 訪問教授 (國科會獎助 2007/8 - 2008/1)  
國立虎尾科技大學 飛機工程系 航空電子組 專任教授 (2005/8 - )  
國立虎尾科技大學 飛機工程系 航空電子組 專任副教授 (2000/8 - 2005/7)  
建國技術學院 電子工程系 專任副教授 (1999/9 - 2000/7 )

## \* 學歷

英國利物浦大學 電機工程暨電子研究所 博士(Liverpool University, U. K., 1996/9 - 1999/8)  
清華大學 核子工程研究所 碩士(1986/9-1988/6)  
淡江大學 電子工程系 學士 (1982/9-1986/6)

## \* 研究領域

天線工程、電磁計算、射頻電路、優化技術

## \* 教授課程

電磁學、天線原理與設計、信號與系統、專題製作

## \* 學術榮譽

國際電機電子工程師學會(IEEE) 資深會員(Senior Member)  
國立虎尾科技大學 九十八學年度 學術研究績優獎  
國立虎尾科技大學 工程學院 九十七學年度 學術研究績優獎

## \* 學術參與：

2016沙烏地阿拉伯法德國王大學 研究計畫/結案報告 審查委員  
2015/2016航太研討會(AASRC)論文委員會委員  
2012全國電信研討會 議程委員  
2010香港城市大學 重點發展研究計畫 國際審查委員  
2008中國電機工程學刊(IJEE) 電信特刊 Guest Editor  
2008全國電信研討會 議程共同主席(2008/12)  
Member, 中國航空太空學會(2000/8)  
IEEE Trans. Antennas and Propagation/Reviewer(2006-)  
IEEE Antennas and Wireless Propagation Letters/Reviewer(2006-)  
IET(IEE) Proc. Microwaves, Antennas and Propagation/Reviewer(2005-)  
IET(IEE) Electronics Letters/Reviewer(2005-)  
Journal of Electromagnetic Waves and Applications/Reviewer(2006-)  
Wireless Personal Communications/Reviewer(2008-)  
AEUE International Journal of Electronics and Communications/Reviewer(2008-)  
Computers & Electrical Engineering/Reviewer(2008-)

Indian Journal of Engineering & Materials Sciences/Reviewer(2007-)  
Journal of Information Science and Engineering/Reviewer(2007-)  
International Journal of Antennas and Propagation/Reviewer(2009-)  
International Journal of Intelligent Systems Technologies and Applications/Reviewer(2007-)  
Journal of Information Science and Engineering/Reviewer(2007-)  
中華民國航空、太空及民航學刊/Reviewer(2008-)

#### \* 研究計畫

- 1.直昇機用之NVIS通訊天線研究(NSC 89-2213-E-150-025/89.08.01~90.07.31) 主持人
- 2.整合型多功能印刷天線設計(NSC 90-2213-E-150-004/90.08.01~91.07.31) 主持人
- 3.應用於SAR之具雙極化性印刷天線陣列設計(NSC 91-2213-E-150-012/91.08.01~92.07.31) 主持人
- 4.應用於無線通訊之多頻平面單極天線設計(NSC 92-2622-E-150-042-CC3/92.12.01~93.11.30) 主持人
- 5.多頻共平面波導饋入天線設計(NSC 93-2622-E-150-027-CC3/93.11.01~94.10.31) 主持人
- 6.共平面波導饋入式超寬頻(UWB)單極天線設計(NSC 94-2213-E-150-009/94.08.01~95.07.31) 主持人
- 7.小型三頻無線區域網路共平面波導饋入式天線之研發—使用蜂群搜尋法(NSC 94-2622-E-150-032-CC3/94.11.01~95.10.31) 主持人
- 8.應用於無線區域網路之小型雙頻槽孔式印刷天線設計與量測 (NSC 94-2815-C-150-036-E/94.07.01~95.02.28) 大專生專題研究 指導老師
- 9.應用於無線區域網路之軟性雙寬頻平面天線研發(公-04-工-150/95.05.01~95.12.31) 教育部產學計畫 主持人
- 10.應用於射頻辨識系統之小型可彎式平面天線設計(NSC 95-2221-E-150-019/95.08.01~96.07.31) 主持人
- 11.應用於 WiMAX/WLAN 系統之多頻小型平面天線設計(NSC 96-2815-C-150-022-E/96.07.01~97.02.28) 大專生專題研究 指導老師
- 12.超寬頻雷達技術之研究(NSC 96-2918-I-150-002/96.08.01~97.01.31) 科技人員國外短期研究計畫 主持人
- 13.應用於生醫無線通訊系統之植入式天線的研製與量測(NSC 96-2221-E-150-001/96.08.01~97.07.31) 主持人
- 14.智慧型無線感應器系統平臺建構與其在土木結構診斷應用之研究-子計畫：智慧型系統平臺系統韌體與網路閘道之設計與研製(I)(NSC 96-2625-Z-150-001/96.08.01~97.07.31) 共同主持人
- 15.智慧型無線感應器系統平臺建構與其在土木結構診斷應用之研究-子計畫：智慧型系統平臺系統韌體與網路閘道之設計與研製(II)(NSC 97-2625-M-150-001/97.08.01~98.07.31) 共同主持人
- 16.智慧型無線感應器系統平臺建構與其在土木結構診斷應用之研究-子計畫：智慧型系統平臺系統韌體與網路閘道之設計與研製(III)(NSC 98-2625-M-150-001/98.08.01~99.07.31) 共同主持人
- 17.教育部資通訊重點領域課程推廣計畫-種子教師 (98.03.01~99.02.28) 主持人
- 18.教育部 資通訊重點領域課程推廣計畫-種子教師 (99.03.01~100.02.28) 主持人
- 19.提昇飛行系統傳輸效能之研究(MOST 100-2221-E-150-046/100.08.01~101.09.30) 主持人
- 20.結合實驗與數值方法研析噴流式Gurney式襟翼應用在長滯空及具匿蹤性無人飛機時之空氣動力特性

(II)(MOST 100-2221-E-150-049/100.08.01-101.08.31) 共同主持人

21. 飛機客艙內外無線電波傳播特性研究(MOST 101-2221-E-150-016/101.08.01-102.09.30) 主持人
22. 飛機客艙無線區域網路傳輸性能研究(MOST 102-2221-E-150-022/102.08.01-103.09.30) 主持人
23. 飛機之天波通訊技術研究 (MOST 103-2221-E-150-045/103.08.01) 主持人
24. 2U立方衛星研製計畫-衛星高增益通訊天線研製(國家太空中心 106AZ17/106.04.08-109.04.08) 子計畫主持人

#### \* 國際期刊論文

1. Tsang-Lang Lin\*, Wen-Ting Chen, Wen-Chung Liu, Yuan Hu, and Mien-Win Wu, 1990 Sep., "Computer simulation of virtual cathode oscillations", *Journal of Applied Physics*, Vol.68, No.5, pp.2038-2044. (SCI/EI)
2. B.A. Austin and Wen-Chung Liu\*, 1999 Feb., "Genetic algorithm optimization of vehicle-mounted loop antenna for NVIS applications", *Electronics Letters*, Vol.35, No.4, pp.252-253. (SCI/EI)
3. Wen-Chung Liu\* and B.A. Austin, 1999 Oct., "Optimized shaped parasitic array using the genetic algorithm", *IEE Proceedings Microwaves, Antennas and Propagation*, Vol. 146, No.5, pp.339-341. (SCI/EI)
4. B.A. Austin\* and Wen-Chung Liu, 2002 June, "Assessment of vehicle mounted antennas for NVIS applications", *IEE Proceedings Microwaves, Antennas and Propagation*, Vol. 149, No.3, pp.147-152. (SCI/EI)
5. Jau-Ming Wu\* and Wen-Chung Liu, 2002 July, "Serially concatenated TCM using a new labelled 16QAM", *Journal of the Chinese Institute of Electrical Engineering - Special Issue in Communication*, Vol.9, No.4, pp.331-338. (EI)
6. W.-C. Liu\* and C.-M. Wu, 2004 May, "Broadband dual-frequency CPW-fed planar monopole antenna with rectangular notch," *Electronics Letters*, Vol.40, No.11, pp.642-643 (SCI/EI).
7. W.-C. Liu\*, C.-C. Huang and C.-M. Wu, 2004 June, "Dual-polarised single-layer slotted patch antenna," *Electronics Letters*, Vol.40, No.12, pp.717-718 (SCI/EI)  
NSC 91-2213-E-150-012-.
8. W.-C. Liu\* and W.-R. Chen, 2004 Sep., "CPW-fed compact meandered patch antenna for dual-band operation", *Electronics Letters*, Vol.40, No.18, pp.1094-1095 (SCI/EI)
9. W.-C. Liu\*, 2004 Oct., "Broadband dual-frequency meandered CPW-fed monopole antenna," *Electronics Letters*, Vol.40, No.21, pp.1319-1320 (SCI/EI)
10. W.-C. Liu\*, W.-R. Chen, and C.-M. Wu, 2004 Dec., "Printed double S-shaped monopole antenna for wideband and multiband operation of wireless communications," *IEE Proceedings Microwaves, Antennas and Propagation*, Vol.151, No.6, pp.473-476 (SCI/EI) NSC 92-2622-E-150-042-CC3
11. Wen-Chung Liu\* and Chuan-Chien Huang, 2005 Mar., "A CPW-fed L-shaped slot planar monopole antenna for triple-band operations," *Microwave and Optical Technology Letters*, Vol.44, No.6, pp.510-512 (SCI/EI)
12. W.-C. Liu\* and C.-F. Hsu, 2005 Mar., "Dual-band CPW-fed Y-shaped monopole antenna for PCS/WLAN application," *Electronics Letters*, Vol.41, No.7, pp.390-391 (SCI/EI)
13. W.-C. Liu\*, 2005 July, "Compact microstrip-line-fed ring monopole antenna with a tuning strip for 5-GHz WLAN operation," *Electronics Letters*, Vol.41, No.15, pp.831-832 (SCI/EI)
14. W.-C. Liu\*, 2005 Aug., "Design of a CPW-fed notched planar monopole antenna for multiband operations using a genetic algorithm," *IEE Proceedings Microwaves, Antennas and Propagation*, Vol.152, No.4, pp.273-277 (SCI/EI) NSC 93-2622-E-150-027-CC3
15. Wen-Chung Liu\*, 2005 Aug., "Broadband dual-frequency cross-shaped slot CPW-fed monopole antenna for WLAN operation," *Microwave and Optical Technology Letters*, Vol.46, No.4, pp.353-355 (SCI/EI)
16. W.-C. Liu\* and Z.-K. Hu, 2005 Aug, "Broadband CPW-fed folded-slot monopole antenna for 5.8 GHz RFID application," *Electronics Letters*, Vol.41, No.17, pp.5-6 (SCI/EI)
17. Wen-Chung Liu\*, 2005 Oct., "Design of a multiband CPW-fed monopole antenna using a particle swarm optimization approach," *IEEE Trans. Antennas and Propag.*, Vol.53, No.10, pp.3273-3279 (SCI/EI)

18. W.-C. Liu\*, 2005 Dec., "Wideband dual-frequency double inverted-L CPW-fed monopole antenna for WLAN application," *IEE Proceedings Microwaves, Antennas and Propagation*, Vol.152, No.6, pp.505-510 (SCI/EI)
19. Wen-Chung Liu\* and Ping-Chi Kao, 2005 Dec., "CPW-fed triangular monopole antenna for ultra wideband operation," *Microwave and Optical Technology Letters*, Vol.47, No.6, pp.580-582 (SCI/EI) NSC 94-2213-E-150-009-
20. Wen-Chung Liu\* and Chao-Ming Wu, 2006 Mar., "CPW-fed shorted F-shaped monopole antenna for 5.8 GHz RFID Application," *Microwave and Optical Technology Letters*, Vol.48, No.3, pp.573-575 (SCI/EI)
21. Wen-Chung Liu\* and Ping-Chi Kao, 2006 June., "CPW-fed triangular antenna with a frequency band notch function for ultra-wideband application," *Microwave and Optical Technology Letters*, Vol.48, No.6, pp.1032-1035 (SCI/EI) NSC 94-2213-E-150-009-
22. W.-C. Liu\* and H.-J. Liu, 2006 July, "Compact CPW-fed monopole antenna for 5 GHz wireless application," *Electronics Letters*, Vol.42, No.15, pp.837-839 (SCI/EI)
23. W.-C. Liu\* and H.-J. Liu, 2006 July, "Compact triple-band slotted monopole antenna with asymmetrical CPW grounds," *Electronics Letters*, Vol.42, No.15, pp.840-842 (SCI/EI)
24. Wen-Chung Liu\* and Ching-Feng Hsu, 2006 Aug., "Flexible CPW-fed double meandered monopole antenna for dual-band WLAN operation," *Microwave and Optical Technology Letters*, Vol.48, No.8, pp.1529-1532 (SCI/EI) NSC 94-2213-E-150-009-
25. Wen-Chung Liu\* and Ping-Chi Kao, 2006 Aug., "Compact CPW-fed dual folded-strip monopole antenna for 5.8 GHz RFID application," *Microwave and Optical Technology Letters*, Vol.48, No.8, pp.1614-1615 (SCI/EI)
26. Wen-Chung Liu\*, 2007 Jan., "A coplanar waveguide-fed folded-slot monopole antenna for 5.8 GHz radio frequency identification application," *Microwave and Optical Technology Letters*, Vol.49, No.1, pp.71-74 (SCI/EI) NSC 95-2221-E-150-019-
27. W.-C. Liu\* and C.-F. Hsu, 2007, "CPW-fed notched monopole antenna for UMTS/IMT-2000/WLAN applications," *Journal of Electromagnetic Waves and Applications*, Vol.21, No.6, pp.841-851 (SCI/EI)
28. W.-C. Liu\* and P.-C. Kao, 2007, "Design of probe-fed H-shaped microstrip antenna for circular polarization," *Journal of Electromagnetic Waves and Applications*, Vol.21, No.7, pp.857-864 (SCI/EI)
29. W.-C. Liu\* and Y.-T. Kao, 2007, "CPW-fed compact meandered strip antenna on a soft substrate for dualband WLAN communication," *Journal of Electromagnetic Waves and Applications*, Vol.21, No.7, pp.987-995 (SCI/EI) NSC 95-2221-E-150-019-
30. W.-C. Liu\* and H.-J. Liu, 2007, "Miniaturized asymmetrical CPW-fed meandered strip antenna for triple-band operation," *Journal of Electromagnetic Waves and Applications*, Vol.21, No.8, pp.1089-1097 (SCI/EI) NSC 95-2221-E-150-019-
31. W.-C. Liu\*, 2007 Apr., "Optimal design of dualband CPW-fed G-shaped monopole antenna for WLAN application," *Progress in Electromagnetics Research*, PIER 74, pp.21-38 (SCI /EI) NSC 95-2221-E-150-019-
32. Wen-Chung Liu\* and Shu-Ming Chen, 2007 July, "Ultra-wideband printed fork-shaped monopole antenna with a band-rejection characteristic," *Microwave and Optical Technology Letters*, Vol.49, No.7, pp.1536-1538 (SCI/EI)
33. Wen-Chung Liu\*, 2007 July, "Broadband dual-frequency CPW-fed antenna with a cross-shaped feeding line for WLAN application," *Microwave and Optical Technology Letters*, Vol.49, No.7, pp.1739-1744 (SCI/EI) NSC 94-2213-E-150-009-
34. Yeuh-Yeong Liou\*, Chi-Chang Liu, Chin-Chiuan Kuo, Wen-Chung Liu, and Cheng-Chung Jaing, 2007 Aug., "Design of universal broadband visible antireflection coating for commonly used glass substrates," *Japanese Journal of Applied Physics*, Vol.46, Pt. 1, No.8A, pp. 5143-5147 (SCI/EI) NSC 95-2221-E-270-017-
35. W.-C. Liu\*, 2007 Oct., "Dual wideband CPW-fed notched antenna with asymmetrical grounds for multi-band wireless application," *IET Microwaves, Antennas and Propagation*, Vol.1, No.5, pp.980-985 (SCI/EI) NSC 95-2221-E-150-019-
36. Wen-Chung Liu\* and Feng-Ming Yeh, 2008 Mar., "Compact dual- and wide-band CPW-fed slot antenna for wireless applications," *Microwave and Optical Technology Letters*, Vol.50, No.3, pp.574-575 (SCI/EI) NSC

96-2221-E-150-001-

37. Wen-Chung Liu\* and Feng-Ming Yeh, 2008 Mar., "CPW-fed shorted monopole antenna for broadband application," *Microwave and Optical Technology Letters*, Vol.50, No.3, pp.787-789 (SCI/EI)
38. Wen-Chung Liu\*, Feng-Ming Yeh, and Mohammad Ghavami, 2008 Sep., "Miniaturized implantable broadband antenna for biotelemetry communication," *Microwave and Optical Technology Letters*, Vol.50, No.9, pp.2407-2409 (SCI/EI) NSC 96-2221-E-150-001 and NSC 96-2918-I-150-002.
39. Wen-Chung Liu\*, Jieh-La Jaw, and Bohr-Chun Chen, 2008 Nov., "Triple-band CPW-fed monopole antenna with branch strips for wireless applications," *Microwave and Optical Technology Letters*, Vol.50, No.11, pp.2794-2797 (SCI/EI)
40. W.-C. Liu\*, S.-H. Chen and C.-M Wu, 2008, "Implantable broadband circular stacked PIFA antenna for biotelemetry communication," *Journal of Electromagnetic Waves and Applications*, Vol. 22, No.13, pp.1791-1800 (SCI/EI) NSC 96-2221-E-150-001-
41. Wen-Chung Liu\*, Chao-Ming Wu, Shih-Hsiung Chung, and Jieh-La Jaw, 2008 Dec., "Strip loaded CPW-fed triangular monopole antenna for UWB operation," *Microwave and Optical Technology Letters*, Vol.50, No.12, pp.3097-3101 (SCI/EI)
42. Wen-Chung Liu\*, Chao-Ming Wu, Shih-Hsiung Chung, and Jieh-La Jaw, 2008 Dec., "Notched CPW-fed pentagonal monopole antenna for dual wideband operation," *Microwave and Optical Technology Letters*, Vol.50, No.12, pp.3104-3108 (SCI/EI) NSC 96-2815-C-150-022-E
43. Wen-Chung Liu\*, Chau-Chung Song, Shih-Hsiung Chung, and Jieh-La Jaw, 2009 Jan., "Strip-loaded CPW-fed pentagonal antenna for GPS/WiMAX/WLAN applications," *Microwave and Optical Technology Letters*, Vol.51, No.1, pp.48-52 (SCI/EI) NSC 96-2815-C-150-022-E
44. Wen-Chung Liu\*, Ssu.-Hung Chen, and Chao-Ming Wu, 2009 Mar, "Bandwidth enhancement and size reduction of an implantable PIFA antenna for biotelemetry devices," *Microwave and Optical Technology Letters*, Vol.51, No.3, pp.755-757. (SCI/EI) NSC 96-2221-E-150-001
45. Wen-Chung Liu\* and Hong-Lun Ko, 2009 June, "Wideband CPW-fed dual meandered-strip monopole antenna," *Microwave and Optical Technology Letters*, Vol.51, No.6, pp.1458-1460. (SCI/EI)
46. Wen-Chung Liu\* and Der-Lun Huang, 2009 Aug., "Multiband ladder-shaped monopole antenna for digital television and wireless communications," *Microwave and Optical Technology Letters*, Vol.51, No.9, pp.2124-2127. (SCI/EI)
47. W.-C. Liu\* and J.-K. Chen, 2009 Aug., "Dual-band twin stepped-patch monopole antenna for WLAN application," *Electronics Letters*, Vol. 45, No.18, pp.929-931. (SCI/EI)
48. W.-C. Liu\*, M. Ghavami, and W.-C. Chung, 2009 Oct., "Triple-frequency meandered monopole antenna with shorted parasitic strips for wireless application," *IET Microwaves, Antennas and Propagation*, Vol. 3, No.7, pp.1110-1117. (SCI/EI) NSC 96-2221-E-150-001- and NSC 96-2918-I-150-002-
49. W.-C. Liu\*, P.-W. Chen and C.-C Liu, 2010 Feb., "Triple-band planar monopole antenna for DMB/WLAN applications," *Journal of Electromagnetic Waves and Applications*, Vol. 24, No.5/6, pp.653-661. (SCI/EI)
50. Wen-Chung Liu\*, Chao-Ming Wu, and Nien-Chang Chu, 2010 Mar. "A compact CPW-fed slotted patch antenna for dualband operation," *IEEE Antennas and Wireless Propag. Letters*, Vol. 9, pp.110-113. (SCI/EI) NSC 98-2221-E-150-045-
51. Wen-Chung Liu\* and Jiun-Kai Chen, 2010 May, "Dual-band CPW-fed lateral pentagonal monopole antenna for IMT-2000/WLAN operations," *Microwave Journal*, Vol.53, No.5, pp.124-134. (SCI/EI)
52. W.-C. Liu\* and Y.-L. Chen, 2011 April, "Compact strip-monopole antenna for WLAN-band USB dongle application," *Electronics Letters*, Vol.47, No.8, pp.479-480. (SCI/EI) NSC 99-2221-E-150-029-
53. Wen-Chung Liu\*, Chao-Ming Wu, and Yen-Jui Tseng, 2011 June., "Parasitically loaded CPW-fed monopole antenna for broadband operation," *IEEE Trans. Antennas and Propag.*, Vol. 59, No. 6, pp. 2415-2419 (SCI/EI) NSC 99-2221-E-150-029-
54. Wen-Chung Liu\*, Chao-Ming Wu, and Yang Dai, 2011 July, "Design of triple-frequency microstrip-fed monopole antenna using defected ground structure," *IEEE Trans. Antennas and Propag.*, Vol. 59, No. 7, pp.

- 2457-2463. (SCI/EI) NSC 99-2221-E-150-029-
55. Wen-Chung Liu\* and Yang Dai, 2011 Sep., "A dual-band shorted monopole antenna for WLAN-band application," *Microwave and Optical Technology Letters*, Vol. 53, No. 9, pp. 2142-2145. (SCI/EI) NSC 99-2221-E-150-029-
  56. Wen-Chung Liu\* and Yang Dai, 2011 Oct., "Dual-broadband twin-pair inverted-L shaped strip antenna for WLAN/WiMAX applications," *Progress in Electromagnetics Research Letters*, Vol. 27, pp. 63-73. (EI)
  57. Chao-Ming Wu\*, Yung-Lun Chen, and Wen-Chung Liu, 2012 May, "A compact ultra-wideband slotted patch antenna for wireless USB dongle application," *IEEE Antennas and Wireless Propag. Letters*, Vol. 11, pp. 596-599. (SCI/EI) NSC 100-2221-E-150-046-
  58. Wen-Chung Liu\*, Chao-Ming Wu, and Nien-Chang Chu, 2012 June, "A Compact Low-profile Dual-band Antenna for WLAN and WAVE Applications," *AEUE International Journal of Electronics and Communication*, Vol. 56, pp. 467-471. (SCI/EI) NSC 99-2221-E-150-029-
  59. Wen-Chung Liu\*, Yung-Lun Chen, and Chao-Ming Wu, 2013 Feb., "A compact wideband strip antenna for wireless USB dongle application," *Microwave and Optical Technology Letters*, Vol. 55, No. 2, pp. 302-304 (SCI/EI) NSC 100-2221-E-150-046-
  60. W. C. Liu\* and C.-S. Chen, 2013 Mar., "Design of missile-mounted SIW antenna with high directivity for data transmission," *Progress In Electromagnetics Research C*, Vol. 38 , pp. 79-88. (EI) NSC 100-2221-E-150-046-
  61. Wen-Chung Liu\*, Yu-Fan Lin, and Chao-Ming Wu, 2014 June, "Frequency scannable stacked patch antenna for beam steering applications," *Microwave and Optical Technology Letters*, Vol. 56, No. 6, pp. 1506-1509 (SCI/EI) NSC 101-2221-E-150-016-
  62. Chao-Ming Wu \*, Kuang-Yang Chou, and Wen-Chung Liu, 2015 Mar, "Study of interference path loss from antennas located inside and outside of an aircraft cabin," *Journal of Aeronautics, Astronautics and Aviation*, Vol. 47, No. 1, pp. 49-54 (EI) NSC 102-2221-E-150-022-
  63. Chao-Ming Wu\*, Jia-Wun Syu, and, Wen-Chung Liu, 2015 April, "Dual-band slotted patch antenna with defective ground for WLAN/WiMAX applications," *Progress in Electromagnetics Research Letters*, Vol. 53, pp. 1-6 (EI) NSC 102-2221-E-150-022-

\* 國內期刊論文

1. Wen-Chung Liu\* and Jer-Wei Sue, 2000, "Gain optimization of an auto-shaped parasitic array using the genetic algorithm", *Journal of Chienkuo Institute of Technology*, Vol. 18, pp.521-527.
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