圖書館主任簡介

姓名 ： 林全財（Chuan-Tsai Lin）

學歷

國立交通大學電機與控制工程博士

國立中正大學電機工程研究所，計算機、機電工程組，碩士

經歷

1. 國立彰化師大附工教師兼圖書館主任(108/8~現今)
2. 財團法人彰師附工文教基金會執行秘書 106/8~現今)
3. 國立彰化師大附工教師兼教務主任(106/8~108/7)
4. 國立彰化師大附工教師兼實習輔導處主任(105/8~106/7)
5. 國立彰化師大資訊工程學系兼任助理教授
6. 國立彰化師大附工教師兼電子科主任(89/8~94/7) (99/8~105/7)
7. 國立彰化師範大學附屬高工教師兼導師(88, 96, 97 學年度)
8. 彰化區免試入學委員會總幹事(107 年)
9. 彰工校友會總幹事(105/8~106/7)
10. 全國技能競賽視聽電子、應用電子職類裁判

學術服務

- **Technical Reviewer,** *IEEE Transactions on Industrial Engineering,* **2009-.**
- **Technical Reviewer,** *IEEE Transactions on Vehicular Technology,* **2008-.**
- **Technical Reviewer,** *2006 IEEE Conference on Systems, Man and Cybernetics(SMC2006)*
- **Technical Reviewer,** *2007 National computer Symposium*
- **Technical Reviewer,** *2008 National Conference on Fuzzy Theory and Its Applications*

Research Interests (研究與實務專長)

Artificial Intelligence (人工智慧),
Computer Vision(電腦視覺),
Smart Cars and Driver Assistance Systems(智慧車與駕駛輔助系統),
Machine Learning and Deep Learning (機器學習和深度學習)

Research Topics (研究主題)

1. 應用大型語言模型的智慧工廠之研究
2. 財經趨勢預測的機器學習模型之研究

Publication List (著作列表)

(A)、Journal Papers：

Published and Accepted Referred International Journal Papers：

1. Bing-Fei Wu, Chuan-Tsai Lin, and Yen-Lin Chen, "**Dynamic Calibration and Occlusion Handling Algorithms for Lane Tracking**", *IEEE Transactions on Industrial Electronics*, Vol. 56, No. 5, pp. 1757 – 1773, May 2009. **(SCI, EI, 2010 IF=3.481, 2010 RF=1/60)**

2. Bing-Fei Wu, Chuan-Tsai Lin, and Yen-Lin Chen, "**Robust Position Estimation and Analysis Based on a Camera Model with Dynamic Calibration for Driving Assistance Systems**", *IEICE Transactions on Information and Systems*, Vol. E92-D, No. 9, pp. 1725-1735, Sep. 2009. **(SCI, EI , 2010 IF=0.268, 2010 RF=123/128)**

3. Yen-Lin Chen, Bing-Fei Wu, Chuan-Tsai Lin, Chung-Jui Fan, and Chih-Ming Hsieh, "**Real-time Vision-based Vehicle Detection and Tracking on a Moving Vehicle for Nighttime Driver Assistance**", *International Journal of Robotics and Automation*, Vol. 24, No. 2, pp. 89-102, 2009. **(SCI, EI, 2010 IF=0.206, 2010 RF=55/60)**

4. Bing-Fei Wu, Chuan-Tsai Lin, and Chao-Jung Chen, "**Real-time Lane and Vehicle Detection Based on a Single Camera Model**" , *International Journal of Computers and Applications*, Vol.32, No.2,pp.149-159, 2010. **(EI)**

5. Bing-Fei Wu and Chuan-Tsai Lin, "**Real-Time Fuzzy Vehicle Detection Based on Contour Size Similarity**," *International Journal of Fuzzy Systems*, vol. 7, No. 2, pp. 54-62, June 2005. (2008 後已列為**SCI**) **(EI)**

(B)、Conference Papers：

1. Yen-Lin Chen, Chuan-Tsai Lin, Chung-Jui Fan, Chih-Ming Hsieh, and Bing-Fei Wu, "Vision-based Nighttime Vehicle Detection and Range Estimation for Driver Assistance," in *Proceedings of the 2008 IEEE International Conference on Systems, Man and Cybernetics(SMC2008)*, pp. 2988-2993, Oct. 2008.

2. Bing-Fei Wu, Chuan-Tsai Lin, and Yen-Lin Chen, "Robust Lane Tracking in Diverse Environmental Conditions," in *Proceedings of the 16th National Conference on Fuzzy Theory and Its Applications*, pp. 121-126, Dec. 2008.

3. Bing-Fei Wu and Chuan-Tsai Lin, "Robust Lane Detection and Tracking for Driving Assistance Systems," *Proceedings of the IEEE Syst., Man, Cybern. Symp.*, pp. 3848-3853, Oct. 2007.

4. 吳炳飛、林全財、陳彥霖，"基於視覺的車道偵測與追蹤演算法"，中華民國九十六年全國計算機會議(2007 National computer Symposium)，第 509~516 頁，2007 年 12 月。

5. 陳彥霖、謝至明、林全財、吳炳飛，"智慧型夜間駕駛安全輔助暨即時監控系統之研究"，中華民國九十六年全國計算機會議(2007 National computer Symposium)，第 517~530 頁，2007 年 12 月。

6. Bing-Fei Wu and Chuan-Tsai Lin, "Robust Image Measurement and Analysis Based on Perspective Transformations," *Proceedings of the IEEE Syst., Man, Cybern. Symp.*, pp.2390-2395, Oct. 2006.

7. Bing-Fei Wu and Chuan-Tsai Lin, "A Fuzzy Vehicle Detection Based on Contour Size Similarity," *Proceedings of the IEEE Intelligent Vehicles Symp.*, pp. 495-500, June 6-8, 2005.

8. Bing-Fei Wu, Chuan-Tsai Lin, and Chao-Jung Chen, "A Fast Lane and Vehicle Detection Approach for Autonomous Vehicles," *Proceedings of the 7th IASTED International Conference on Signal and Image Processing*, pp. 305-310, August 15-17, 2005.

9. Bing-Fei Wu, Yen-Lin Chen, Yuan-Hsin Chen, Chao-Jung Chen, and <u>Chuan-Tsai Lin</u>, "Real-Time Image Segmentation and Rule-based Reasoning for Vehicle Head Light Detection on a Moving Vehicle," *Proceedings of the 7th IASTED International Conference on Signal and Image Processing*, pp. 388-393, August 15-17, 2005, Honolulu, Hawaii, USA.

10. <u>Chuan-Tsai Lin</u> and Alan Liu, "A Study of a Dynamical Negotiation Architecture for Multi-Agent Systems", *Proceedings of the 2000 International Computer Symposium workshop on Artificial Intelligence*, pp. 87-94, December 6-8, 2000, Chiayi, Taiwan, ROC.

(C)、博碩士論文：

● **Chuan-Tsai Lin**, "A Study of Image Processing and Computer Vision Techniques for Driving Assistance Systems," *Ph.D. Dissertation*, National Chiao Tung University, Taiwan, June, 2009.

● **Chuan-Tsai Lin**, "A Study of a Dynamical Negotiation Architecture for Multi-Agent Systems," *Master Thesis*, National Chung Cheng University, Taiwan, June, 2000.

(D)、書籍著作：

● 林全財、鄭旺泉, CPLD 可程式邏輯設計, 台科大圖書股份有限公司, 台北, 2003.

● 林全財、王志中、吳進誠，單晶片微處理機實習(基於 ARM CORTEX-M0+)，秉華科技有限公司，台中市，2022。 (國家教育研究院審定 技審字第 111026 號)

Honors/ Awards(榮譽與獎勵)

1. 得獎論文：影像動態校正與遮蔽補償演算法於車道追蹤之研究與應用，榮獲智慧運輸論文獎(ITS Paper Award)。

2. 國際技能競賽指導老師-指導學生參加第42、43屆國際技能競賽榮獲金牌，連續兩屆，榮獲金牌，為國爭光。

3. 全國技能競賽指導老師- 指導學生參加全國技能競賽，榮獲7次金牌，多次銀牌及銅牌。

4. 指導學生參加全國工科技能競賽，榮獲9次金手獎，1次優勝。

5. 指導學生參加彰化縣國中技藝競賽，榮獲5年第一名，累計超過31獎項。

6. 指導學生參加全國科展、專題製作競賽、全國中學生小論文比賽累計30餘獎。

7. 指導學生參加國內外競賽，累計獲獎項超過100餘項。

8. 全國技藝教育績優表揚。

9. 優良工職教育人員金鐸獎。