

# 蕭志清 簡歷

## 一、主要學歷

國立台灣科技大學	電機工程博士
國立台灣科技大學	電機工程碩士

## 二、經歷

服務學校	服務部門	職稱	起訖年月
慈濟科技大學	資訊科技與管理系	副教授	2024/02~
高苑科技大學	智慧科技應用系	副教授/ 主任	2013/08~2024/01
高苑科技大學	資訊科技應用系	副教授/ 副主任	2011/08~2023/07
高苑科技大學	電機系	副教授	2005/08~2011/07
和春技術學院	電機系	副教授	2004/08~2005/07
和春技術學院	電機系	講師	1993/09~2004/07
瑩諮科技公司	維修部	主任	1987/09~1989/08

## 三、研究與專長：

主要專長為人工智慧相關領域與應用包括模糊理論、類神經網路應用、學習理論、智慧型控制、強健塑模、智慧聯網。

### 1. 期刊論文：

- [1] Chen-Chia Chuang, Jin-Tsong Jeng, Wei-Yang Lin, C. C. Hsiao, Chin-Wang Tao1 (2020, Mar). Interval fuzzy c-regression models with competitive agglomeration for symbolic interval-valued data. *International Journal of Fuzzy Systems*. 22, pp.891–900. (SCI).
- [2] Chih-Ching Hsiao, C. C. Chuang, S. F. Su (2014, Mar). Robust Gaussian Kernel Based Approach for Feature Selection. *Advanced Intelligent Systems*, 268, 25-33. (EI). NSC 102-2221-e-244-015.
- [3] S.F. Su, C.C. Chuang, C.W. Tao, J.T. Jeng, C.C. Hsiao (2012, Feb). Radial Basis Function

- Networks with Linear Interval Regression Weights for Symbolic Interval Data. *IEEE Trans. on SMC Part B*, 42(1),69-80. (SCI). NSC 99-2221-E-197-021.
- [4] Chih-Ching HSIAO, Chen-Chia CHUANG, Jin-Tsong JENG, Shun-Feng SU. The Feature Selection with Multi-Granulation for Interval-Value Data. *New Trends on System Sciences and Engineering* (ISBN: 978-1-61499-521-0). Amsterdam, Netherlands: IOS. Jul, 2015: 276, 89-99. MOST 103-2221-E-244-002.
- [5] J.T. Jeng, C.C. Chuang, C.C. Tseng and C.C. Hsiao, "Robust Interval Competitive Agglomeration Clustering Algorithm with Outliers," *International Journal of Fuzzy System*, 2010. (SCI)
- [6] C. C. Hsiao, "Construct A Fuzzy Predictor from Numerical Data," *International Journal of Intelligent Systems Science and Technology*, Vol.2, No. 1, 2010. ( NSC 98-2221-E-244 -004 -)
- [7] Y. C. Hsueh, S. F. Su, and C. C. Hsiao, "Dissipative Control for a class of Uncertain Nonlinear Control Systems," *Asian Journal of Control*, 2010. (SCI)
- [8] C. C. Hsiao, "Robust TSK Modeling for Function Approximation based on Rough Sets," *Far East Journal of Experimental and Theoretical Artificial Intelligence*, 2010. ( NSC 98-2221-E-244 -004 -)
- [9] Y. C. Hsueh, S. F. Su, C. W. Tao, and C. C. Hsiao, "Robust  $L_2$ -Gain Compensative Control for Direct Adaptive Fuzzy Control System Design," *IEEE Trans. Fuzzy Systems*, 2010. (accepted) (SCI)
- [10] C. C. Hsiao, "Adaptive Hybrid Compensation Control for Fuzzy Systems," *International Journal of Intelligent Systems Science and Technology*, Vol.1, No. 2, pp.9-15, 2009. ( NSC 98-2221-E-244 -004 -)
- [11] C. C. Hsiao, S. Y. Ho, "Robust Fuzzy Supervisory Controller by Sliding Mode Control for Nonlinear Systems," *Journal of Fortune Institute of Technology*, vol.12, pp. 9-16, 2005.
- [12] C. C. Hsiao, S. F. Su, T. T. Lee and C. C. Chuang, "Hybrid compensation control for affine TSK fuzzy control system," *IEEE Trans. Syst., Man, Cybern. -Part B*, vol.34, no.4, pp.1865-1873, 2004. (SCI)
- [13] C. C. Hsiao, "由訓練資料自動建構模糊控制器," *Journal of Fortune Institute of Technology*, vol.11, pp.37-43, 2004.
- [14] C. C. Hsiao, "Robust Support Vector Regression Networks," *Journal of Fortune Institute of Technology*, vol.10, pp. 123-130, 2003.
- [15] C. C. Chuang, S. F. Su, J. T. Jeng and C. C. Hsiao, "Robust Support Vector Regression Networks for Function Approximation with Outliers," *IEEE Tran. Neural Networks*, vol.13, no.6, pp.1322-1330, 2002. (SCI)
- [16] C. C. Chuang, S. F. Su and C. C. Hsiao, "The Annealing Robust Backpropagation (ARBP) Learning Algorithm," *IEEE Trans. Neural Networks*, vol. 11, no. 5, pp. 1067-1078, 2000. (SCI)

## 2. 會議論文(近 5 年):

1. Chih-Ching Hsiao, Jin-Tsong Jeng, and Chen-Chia Chuang (2023, Oct). Hand Image Recognition Based on Explainable Artificial Intelligence. 2023 International Conference on Fuzzy Theory and Its Applications , Taiwan.
2. Po-Sheng Chena, Chen-Chia Chuang, Tzu-Yun Lin, Jin-Tsong Jeng and Chih-Ching Hsiao (2023, Aug). Intelligent Weighbridge Station Systems. The World Congress of the International Fuzzy Systems Association, Korea.
3. Chih-Ching Hsiao, Chen-Chia Chuang , Jin-Tsong Jeng (2022, May).Implementation of Explainable AI in Gesture Image Recognition. Proceedings of International Conference on System Science and Engineering 2022(ICSSE2022), Taiwan.
4. Chih-Ching Hsiao, Jin-Tsong Jeng, Chen-Chia Chuang (2021, Oct). Robust Fuzzy Modeling with Locally Approximation Based on Rough Set. 2021 International Conference on Fuzzy Theory and Its Applications.
5. Chen-Chia Chuang, Yu-Feng Kao, Jin-Tsong Jeng and C. C. Hsiao (2020, Nov). The people flow analysis in MRT station using intelligent computing technologies. International Automatic Control Conference.
6. Chih-Ching Hsiao, Jin-Tsong Jeng, Chen-Chia Chuang (2020, Nov). Robust Fuzzy Modeling with Proper Structure Based on Rough Set. International Conference on Fuzzy Theory and Its Applications.
7. Chih-Ching Hsiao, Jin-Tsong Jeng and Chen-Chia Chuang (2020, Aug). A Feature Selection Approach for People trend Analysis. The International Conference on System Science and Engineering 2020 (ICSSE 2020),.
8. Chih-Ching Hsiao , Jin-Tsong Jeng , Chen-Chia Chuang , Tsu-Tian Lee (2019, Dec). Feature Selection for Beacons Data and People trend Analysis. The 20<sup>th</sup> International Symposium on Advanced Intelligent Systems and 2019 International Conference on Biometrics and Kansei Engineering.
9. Chen-Chia Chuang, Jin-Tsong Jeng, Mei-Yung Chen, Chih-Ching Hsiao (2019, Jul). A Fast Approach for Interval Fuzzy C-Means Clustering Algorithm with the Interval-Valued Data . International Research Symposium on Engineering and Technology.
10. Chih-Ching Hsiao, Chen-Chia Chuang, Chia-Wen Chang, Song-Shyong Chen (2019, Jul). An Iterative Robust Fuzzy Regression Agglomeration for Fuzzy Modeling. International Research Symposium on Engineering and Technology.
11. Chih-Ching Hsiao, Jin-Tsong Jeng, Chen-Chia Chuang, Shun-Feng Su (2018, Nov). Dynamic updating Fuzzy-Rough Attribute Reduction Algorithm. 2018 International Conference on Fuzzy Theory and Its Applications.
12. Chih-Ching Hsiao, Chen-Chia Chuang, Jin-Tsong Jeng Shun-Feng (2017, Nov). A Hybrid Case Base Reasoning System Based on Multi- Granulation. The 2017 International Conference on Fuzzy Theory and Its Applications. MOST 105-2221-E-244-002.
13. Zheng-You Guo, Jin-Tsong Jeng, Chih-Ching Hsiao, Sheng-Chieh Chang (2017, Nov). Prediction and Classification of Weather Distribution-Valued Data with MLP Neural Networks. The 2017 International Conference on Fuzzy Theory and Its Applications. MOST 104-2221-E-150-036-MY3.
14. Chih-Ching Hsiao , Chen-Chia Chuang and Jin-Tsong Jeng (2017, Sep). A Hybrid Case Base Reasoning System for Forecasting. 2017 SICE Annual Conference,
15. Chia-Wen Chang, Wen-Rong Xiao, Chih-Ching Hsiao, Song-Shyong Chen, Chin-Wang Tao (2017, Jun). A Simplified Interval Type-2 Fuzzy CMAC. Joint 17th World Congress

- of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems (IFSASCIS2017),
16. Tsu-Tian Lee, Po-Chun Wang, Chih-Ching Hsiao, Chun-Fei Hsu (2017, Jun). Design of Self-Constructing Fuzzy Wavelet Neural Control System. Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems (IFSASCIS2017),
  17. Chih-Ching Hsiao, Yi-Zhen Chen, Chen-Chia Chuang and Chin-Wang Tao. An Attribute Reduction Based on Multi-Granulation for Case Base Reasoning. Proceedings of the SICE Annual Conference 2016, Tsukuba, Japan,. MOST 105-2221-E-244-002.
  18. Chen-Chia Chuang, Song-Shyong Chen, C. W. Tao and Chih-Ching Hsiao (2016, Jul). A novel approach for robust learning algorithm with outliers . 2016 IEEE International Conference on System Science & Engineering, Taiwan. MOST 104-2221-E-197-011.
  19. Chen-Chia Chuang, Chih-Wen Li, Jin-Tsong Jeng, Chih-Ching Hsiao, Chen- Xiang Zhang and Chih-Chi Lin (2016, May). A novel approach for linear interval regression models with fuzzy weights . Joint 8th International Conference on Soft Computing and Intelligent Systems and 17th International Symposium on Advanced Intelligent Systems, 日本.

### 3、研究計畫

年度	計畫名稱	負責項目	補助單位
94	適當聚集結構之強健模糊塑模研究與應用	主持人	國科會
95	由訓練資料建構適當聚集模糊控制器之設計、分析與比較	主持人	國科會
96	智慧型電動代步車之遠距監控系統	主持人	教育部
97	在具離異點下以粗略集合為基礎之模糊塑模法則之研究	主持人	國科會
98	基於模糊集合與粗略集合由數值資料建立預估器之研究	主持人	國科會
98~99	複合驅動智慧型輕量化可攜式電動自行車研發(1/2、2/2)	共同主持人	國科會
100	相近集合與粗略集合在函數近似之應用研究	主持人	國科會
101	智慧型計算於符號區間資料分析--子計畫三：特徵篩選及規則萃取分析(I)	主持人	國科會
102~103	智慧型計算於符號區間資料分析，-子計畫三：特徵篩選及規則萃取分析(II、III)	主持人	國科會

103	皮帶式連續真空機氣調機構開發	主持人	經濟部工業局
104	智慧型計算於中央氣象局巨量天氣資料之處理應用之先期研究--智慧型計算於中央氣象局巨量天氣資料之處理應用之先期研究	共同主持人	國科會
104~105	計算型智慧及符號型資料處理於天氣資料處理及預測的應用—子計畫四：符號區間資料處理分析在特徵篩選之研究及天氣預測之應用(I、II)	主持人	國科會
104~106	計算型智慧及符號型資料處理 於天氣資料處理及預測的應用- -總計畫暨子計畫一：天氣符號區間資料關聯度分析及運算元設計	共同主持人	國科會
108~110	基於藍芽信標及影像的智慧監控及資料分析—總計畫暨子計畫一：影像理解及具地理資訊連結的資料分析用於智慧監控(I、II、III)	共同主持人	國科會
111	跨接各式人工智慧學習架構下之學習可解釋應用研究及遊戲決策探討—總計畫暨子計畫一：跨領域及零樣本學習架構下之可解釋學習及應用	共同主持人	國科會
112	建構可解釋台灣酒拳遊戲策略及其應用之研究(2)	共同主持人	國科會

#### 四、專業證照

證照名稱	證照字號	證照日期	發照機構
(TQC+) 行動裝置應用程式設計	SPGD110800018	2011/8/19	財團法人電腦技能基金會
(TQC+) 軟體開發知識認證	SPSK111100008	2011/11/05	財團法人電腦技能基金會
數位邏輯設計能力認證實用級監評	TDD130212	2013/02/02	台灣嵌入式暨單晶片系統發展協會
數位邏輯設計能力認證實用級	TDP130036	2013/02/02	台灣嵌入式暨單晶片系統發展協會
數位邏輯設計能力認證專業級監評	TDD130036	2013/02/02	台灣嵌入式暨單晶片系統發展協會
數位邏輯設計能力認證專業級	TDS130036	2013/02/02	台灣嵌入式暨單晶片系統發展協會
電機工程技師	80 專高字第 2382 號	1991/05/26	考試院
單晶片專業級能力認證	TMS120651	2012/05/26	台灣嵌入式暨單晶片系統發展協會

單晶片能力認證專家級監評	TMD120140	2012/05/26	台灣嵌入式暨單晶片系統發展協會
Red Hat Certified System Administrator(Red Hat Enterprise Linux 6)	111-201-224	2014/07/21	Red Hat Certification Central
Professional Vocabulary Quotient Credential, English Vocabulary Quotient in ICT	13-PVQC-IC-S5-886000263	2013/10/04	GLAD(Global Learning & Assessment Development)
Microsoft Technology Associate: HTML5 Application Development Fundamentals	E332-8751	2015/06/06	Microsoft(微軟)
Microsoft Certified Professional	E332-8752	2015/06/13	Microsoft(微軟)
Business Intelligence Data Analyst , IBM SPSS Software Certificate	1025723	2014/11/28	CCEA and AsiaAnalytics
Information Security Management Systems Foundation Training Course Tutor(ISO/IEC 27001:2005)	886-01-000056	2013/07/01	Professional Certification Group
Google Apps Education Individual Qualification	1519780	2013/02/18	Google
PCP,Parallax Arduino Boe-Bot Component Professional	13B0042	2013/03/01	Parallax Inc.
Microsoft Technology Associate: Software Development Fundamentals	E333-7332	2015/08/05	Microsoft(微軟)
LPIC Level 1	LPI000274032	2012/12/26	Linux Professional Institute
Java Standard Edition 6 Programmer		2012/09/06	ORACLE