

Chieh-Jen Wang (王界人)

Computational Intelligence Technology Center, Industrial Technology Research Institute. Rm. 705, Bldg. 51, No. 195, Sec. 4, Chung Hsing Rd., Hsinchu, 31040, Taiwan.

Tel: +886-3-591-8305 (office) +886-3-582-0098 (Fax)

Email: cjwang@nlg.csie.ntu.edu.tw cjwang0318@gmail.com

Website: http://nlg.csie.ntu.edu.tw/~cjwang/

Education

National Taiwan University

Ph.D. of Computer Science and Information Engineering

Dissertation: Enhancing Effectiveness of Internet Search and Advertising with

Web Log Mining

Advisor: Prof. Hsin-Hsi Chen (陳信希教授)

• HuaFan University

2003-2005

2007-2013

Master of Science degree in Information Management

Thesis: A GA-Based Attribute Selection and Parameter Optimization for Support

Vector Machine

Advisor: Prof. Cheng-Lung Huang (黃承龍教授)

• HuaFan University

1999-2003

Bachelor of Science degree in Information Management

Working Experience

 Engineer/Project Leader (Industrial Technology Research Institute) 	2013-present
 System and Web Administrator (National Taiwan University) 	2010-2012
 System and Web Administrator (HuaFan University) 	2004-2005
• Student Intern (Kingston Technology)	2002

Area of Specialization and Interest

• Data Mining

Big Data Mining, Text Mining, Web Mining, Web Log Mining, Opinion Mining

• Internet Search

Information Retrieval, Commercial Search, Information Extraction, Natural Language Processing

• Internet Economics and Advertising

Computational Advertising, Sponsored Search, Advertising Recommendation

• Artificial Intelligence

Virtual Customer Assistant, Question Answering, Deep Learning, Topic Detection and Tracking

Attended Projects

<u> Al</u>	<u>tenaea Projecis</u>	
1.	工業技術研究院(Industrial Technology Research Institute)	2015
	互動式知識問答技術(專案負責人)	
	家庭購物口語互動服務(研發工程師)	
2.	工業技術研究院(Industrial Technology Research Institute)	2014
	面向式意見探勘於線上消費者評論之應用(專案負責人)	
	互動式知識問答技術(研發工程師)	
3.	工業技術研究院(Industrial Technology Research Institute)	2013
	互動式知識問答技術(研發工程師)	
	多領域高可擴充式對話技術(研發工程師)	
	非結構化資料處理智慧技術(研發工程師)	
4.	中華電信研究院 (Chunghwa Telecom Laboratories)	2013
	語意理解技術 (Research Assistant)	
5.	國家科學委員會 (National Science Council)	2012-2013
	跨領域機器翻譯模型之研究:以病歷摘要翻譯系統之研製為例	
	(Research Assistant)	
6.	財團法人資訊工業策進會(Institute for Information Industry)	2011
	應用 Semantic Web 於影音內容推薦之研究 (Research Assistant)	
7.	國家科學委員會 (National Science Council)	2010-2013
	使用者意圖與行動之分析與預測,以及在資訊存取上的應用	
	(Research Assistant)	
8.	國家科學委員會 (National Science Council)	2009-2012
	以機器學習法研究資訊檢索相關性、多樣性、多語性排列問題	
	(Research Assistant)	
9.	國家科學委員會 (National Science Council)	2007-2009
	以部落格內容和結構探勘研究使用者之個別和群體行為 (Research Assistant)	
10.	國家科學委員會 (National Science Council)	2007
	解決機器學習的大型計算問題 (Research Assistant)	
11.	國家科學委員會 (National Science Council)	2004-2005
	最佳化屬性選擇於機器學習為基生產管制系統 (Research Assistant)	
12.	國家科學委員會 (National Science Council)	2004-2005
	投資決策支援系統之網站平台設計—以創投公司之資金供需決策為對象	
	(Research Assistant)	
13.	國家科學委員會 (National Science Council)	2002-2003
	以資料探勘方法改善生產與品質績效並建構其分散式資料探勘系統	
	(Research Assistant)	
14.	金士頓科技股份有限公司 (Kingston Technology Company)	2002-2003
	記憶體測試機台生產線模擬系統建構與最佳化資源配置	
	(Research Assistant and System Administrator)	
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	Big Data 前瞻智慧藍圖與應用發展趨勢(Kaohsiung First University of	2015
•	Science and Technology)	2013
		2013
•	Big Data 前瞻智慧藍圖與應用發展趨勢(Hua Fan University)	
•	Big Data 前瞻智慧藍圖與應用發展趨勢(Yuan Ze University)	2013
•	Big Data for Internet Advertising(Shih Chien University)	2013

Grants/A	wards
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Student Volunteer Grant of IEEE SMC	2012
• Support by International Conference Grant of Aim for the Top University Project	2012
Support by International Conference Grant of NSC	2011
Student Volunteer Grant of IEEE SMC	2011
 Support by International Conference Grant of IEEE Taipei Section 	2011
• Support by International Conference Grant of Aim for the Top University Project	2011
Support by International Conference Grant of NSC	2010
Student Travel Grant for SIGIR	2010
 Support by International Conference Grant of ACLCLP 	2010
Outstanding student scholarship of Cathay Financial Group	2010
Outstanding student scholarship of HuaFan University	2004
 Outstanding scholarship of Chunghwa Telecom Staffs' Children 	2004
 Outstanding scholarship of Chunghwa Post Staffs' Children 	2004
Academic Experience	
Teaching Assistant (National Taiwan University) Information Retrieval and Extraction, Natural Language Processing	2010-2012

2006-2007

2003-2005

Academic Activity

Research Assistant (Academia Sinica)
 Big Data Mining (Machine Learning Lab)

 Teaching Assistant (HuaFan University)

Analysis and Design, Civil and Commercial Law

Journal Reviewer	2013-2016
Journal of Information Science and Engineering (SCI)	
• Student Volunteer	2012
IEEE International Conference on Systems, Man, and Cybernetics	
• Student Volunteer	2011
IEEE International Conference on Systems, Man, and Cybernetics	
• Invited Presenter	2010
Microsoft Research Asia Japan-Taiwan Academic Forum	
• Staff	2007
The 19th Conference on Computational Linguistics and Speech Processing	

Total Quality Management, Management Science, Research Methods, System

Language Skills

Chinese (native speaker)
 Taiwanese (native speaker)
 English (fluent speaker)

Publication

Journal Papers:

- 1. **Chieh-Jen Wang** and Hsin-Hsi Chen. "Intent Mining in Search Query Logs for Automatic Search Script Generation." *Knowledge and Information Systems*, Volume 39, Issue 3, pp. 513-542, 2014.(SCI; IF 2011:2.225; COMPUTER SCIENCE, INFORMATION SYSTEMS: 18/135=13.33%)
- 2. **Chieh-Jen Wang**, Yung-Wei Lin, Ming-Feng Tsai and Hsin-Hsi Chen. "Mining Subtopics from Different Aspects for Diversifying Search Results." *Information Retrieval*, Volume 16, Issue 4, pp. 452-483, 2013. (SCI; IF 2011:0.914; COMPUTER SCIENCE, INFORMATION SYSTEMS: 69/135=51.11%)
- 3. **Chieh-Jen Wang**, and Hsin-Hsi Chen. "Intent Shift Detection Using Search Query Logs." *International Journal of Computational Linguistics and Chinese Language Processing*, Volume 3, Number 3-4, pp. 61-76, 2011.
- 4. Cheng-Lung Huang, Mu-Chen Chen and **Chieh-Jen Wang**. "Credit Card Scoring with a Data Mining Approach Based on Support Vector Machine." *Expert Systems with Applications*, Volume 34, Issue 3, pp. 847-856, 2007. (SCI; IF 2011: 2.203; OPERATIONS RESEARCH & MANAGEMENT SCIENCE: 5/77=6.49%) (Times cited in Google Scholar: 226) (ESI Highly Cited Paper)
- 5. Cheng-Lung Huang and **Chieh-Jen Wang**. "A GA-Based Attribute Selection and Parameter Optimization for Support Vector Machine." *Expert Systems with Applications*, Volume 31, Issue 2, pp.231-240, 2006. (SCI; IF 2011: 2.203; OPERATIONS RESEARCH & MANAGEMENT SCIENCE: 5/77=6.49%) (Times cited in Google Scholar: 366) (ESI Highly Cited Paper)
- 6. 黄承龍,陳穆臻,**王界人**,「支援向量機於信用評等之應用」,計量管理期刊, Volume 1, Issue 2, pp.155-172, 2005.

Conference Papers:

- 1. <u>王界人</u>、沈民新 (2015). "運用關聯分析探勘民眾關注議題與發展方向: 以環保議題為例." In Proceedings of the 27th annual Conference on Computational Linguistics and Speech Processing (ROCLING).
- 2. Yang-Yin Lee, Chih-Chieh Shao, Yen-Pin Chiu, Yong-Siang Shih, Hsin-Hsi Chen, **Chieh-Jen Wang**, and Sen-Chia Chang (2014). "Question Type Analysis for Question-Answering Applications in Education." In *Proceedings of the 22nd International Conference on Computers in Education* (ICCE).
- 3. **Chieh-Jen Wang** and Hsin-Hsi Chen (2012). "Learning to Predict the Cost-Per-Click for Your Ad Words." In *Proceedings of the 21st ACM International Conference on Information and Knowledge Management* (CIKM), pp. 2291-2294, Maui, Hawaii. (Top-tier Conference)
- 4. **Chieh-Jen Wang**, Hung-Sheng Huang and Hsin-Hsi Chen (2012). "Automatic Construction of An Evaluation Dataset from Wisdom of the Crowds for Information Retrieval Applications." In *Proceedings of IEEE International Conference on Systems, Man, and Cybernetics* (SMC), pp. 490-495, Seoul, Korea.
- 5. Chieh-Jen Wang, Shuk-Man Cheng, Lung-Hao Lee, Hsin-Hsi Chen, Wen-shen Liu, Pei-Wen Huang and Shih-Peng Lin (2012). "NTUSocialRec: An Evaluation Dataset Constructed from Microblogs for Recommendation Applications in Social Networks." In *Proceedings of the 8th International Conference on Language Resources and Evaluation* (LREC), pp.2328-2333, Istanbul, Turkey.
- 6. **Chieh-Jen Wang**, Yung-Wei Lin, Ming-Feng Tsai and Hsin-Hsi Chen (2011). "NTU Approaches to Subtopic Mining and Document Ranking at NTCIR-9 Intent Task." In the *9th NTCIR Workshop Meeting*, pp.129-134, Tokyo, Japan.

- 7. **Chieh-Jen Wang** and Hsin-Hsi Chen (2011). "Learning User Behaviors for Advertisements Click Prediction." In the 34rd international ACM SIGIR conference on Research and development in information retrieval Workshop on Internet Advertising (IA2011), Beijing, China.
- 8. **Chieh-Jen Wang** and Hsin-Hsi Chen (2011). "Search Scripts Mining from Wisdom of the Crowds." In *Proceedings of IEEE International Conference on Systems, Man, and Cybernetics* (SMC), pp.878-883, Anchorage, Alaska.
- 9. Kevin Hsin-Yih Lin, **Chieh-Jen Wang** and Hsin-Hsi Chen (2011). "Predicting Next Search Actions with Search Engine Query Logs." In *Proceedings of 2011 IEEE/WIC/ACM International Conference on Web Intelligence* (WI), pp.227-234, Lyon, France.
- 10. **Chieh-Jen Wang**, Kevin Hsin-Yih Lin and Hsin-Hsi Chen (2010). "Intent Boundary Detection in Search Query Logs." In *Proceedings of the 33rd international ACM SIGIR conference on Research and development in information retrieval* (SIGIR), pp. 749-750, Geneva, Switzerland. (Top-tier Conference)
- 11. Shih-Wei Lin, Shih-Chieh Chen, **Chieh-Jen Wang** and Kung-Ying Hwang (2005). "Data classification techniques for Credit Cards Promotion." In *12th ISPE International Conference on Concurrent Engineering: Research and Applications*, pp. 195-200, Dallas, USA.
- 12. 黃承龍,楊俊傑,應哲磊,<u>王界人</u>,「使用支援向量機預測台灣期貨指數」,2005年第十一屆資訊管理暨實務研討會,實踐大學,2005.
- 13. 林詩偉,陳士杰,<u>王界人</u>,「應用資料探勘技術提昇信用卡促銷效益之研究」,第一屆 創新與管理學術研討會,實踐大學,2004.
- 14. 黃承龍, <u>王界人</u>, 「應用支援向量機於信用卡資料之分類」, 2004年第一屆中華國際機 率統計與計量管理學術研討會, 國立台北科技大學, 2004.
- 15. 黃承龍, <u>王界人</u>, 「遺傳演算法應用於支援向量機之參數調整與屬性篩選」,第九屆人工智慧與應用研討會,國立政治大學,2004.
- 16. 黃承龍,曾綜源,楊雯珺,<u>王界人</u>,「支援向量機於糖尿病診斷之應用」,中國工業工程學會九十三年度年會暨學術研討會,國立成功大學,2004.
- 17. 曾綜源,黃承龍,<u>王界人</u>,「優勢關係評估法應用於企業跨國投資之研究」,第一屆台灣作業研究學會學術研討會暨2004年科技與管理學術研討會,國立台北科技大學,2004.
- 18. 黃承龍, <u>王界人</u>,「遺傳演算法應用於支援向量迴歸之參數調整與屬性篩選」,第十屆 資訊管理暨實務研討會,國立台中技術學院,2004.

Other Publications:

- 1. **Chieh-Jen Wang**. "Enhancing Effectiveness of Internet Search and Advertising with Web Log Mining." Doctoral Dissertation, Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan, R.O.C, 2013.
- 2. **Chieh-Jen Wang**. "A GA-Based Attribute Selection and Parameter Optimization for Support Vector Machine," Master Thesis, Department of Information Management, HuaFan University, Taipei, Taiwan, R.O.C, 2005.