

# CURRICULUM VITAE

## Personal Information

Name Lai, Yi-Hsuan  
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## Educations

Ph.D., (Traffic Engineering and Transportation Management) Department of Civil Engineering, National Taiwan University (1994.09-2001.06)

## Specialities

Patent Analysis, Technology Forecasting, IP Management, Transportation Planning, Traffic Engineering

## Teaching

### Undergraduate Courses:

Fall 2011: Transportation Engineering ( I ) (TT&LM), Patent Analysis (TM), Intellectual Property Management (TM), Special Topics Technology Management (II) (TM)

Spring 2012: Special Topics Technology Management (I) (TM), Technology Forecasting and Assessment (TM)

### Graduate Courses:

Fall 2011: Technology Forecasting and Innovation (TM)

Spring 2012: Special Topics on Intellectual Property Management (Ph.D.), Special Topics on Patent Analysis (TM)

## Professional Experiences

Assistant Professor, Department of Technology Management, Chung Hua University, (2005.08-2009.07)

Assistant Professor, Department of Industrial Management, Chung Hua University (2003.03-2005.07)

## Five-Year Summary of Intellectual Contributions

### I. Peer Reviewed Journal Papers

1. Che, Hui-Chung, Lai, Yi-Hsuan, Wang, Szu-Yi, 2010.1 "Assessment of Patent Legal Value by Regression and Back-Propagation Neural Network", *International Journal of Systematic Innovation*, Vol 1, issue 1, pp. 31-47.
2. Yi-Hsuan Lai, Hui-Chung Che, 2009.9 "Evaluating Patents Using Damage Awards of Infringement Lawsuits : A Case Study", *JOURNAL OF ENGINEERING AND TECHNOLOGY MANAGEMENT*, Vol 26, issue 3, pp. 167-180, SSCI,SCI,EI.
3. Lai, Yi-Hsuan, 車慧中, 2010.3 "Modeling Patent Legal Value by Back Propagation Neural Network", *臺大管理論叢 / NTU Management Review*, Vol 20, issue S1, pp. 147-178, TSSCI.
4. Lai, Yi-Hsuan, Che, Hui-Chung, 2009.9 "Modeling Patent Legal Value by Extension Neural Network", *EXPERT SYSTEMS WITH APPLICATIONS*, Vol 36, issue 7, pp. 10520-10528, SCI,EI.
5. Yi-Hsuan Lai, Hui-Chung Che, 2009.6 "Integrated Evaluator Extracted from Infringement lawsuits Using Extension Neural Network Accommodated to Patent Assessment", *International Journal of Computer Applications in Technology*, Vol 35, issue 2-4, pp. 84-96, EI.

### II. Peer Reviewed Proceedings

1. Lai, Yi-Hsuan, 李佩瑾, 2009.9 "利用多元迴歸與因素分析法探討專利價值影響因素—以美國數州專利訴訟案件為例", 2009年科技與管理研討會, 台北, 中華民國.
2. Lai, Yi-Hsuan, 梁志彰, 2009.9 "以美國專利侵權訴訟判決建構多元迴歸專利鑑價模式之研究", 2009年科技與管理研討會, 台北, 中華民國.
3. 車慧中, Lai, Yi-Hsuan, 2009.9 "結合灰關聯分析與倒傳遞類神經網路的專利鑑價方法", 2009 沿海區域產業管理研討會, 廣州, 中國.
4. Lai, Yi-Hsuan, 王思儀, 車慧中, 2009.9 "成長曲線應用分析與探討-以奈米碳管場發射顯示器等為例", 2009 沿海區域產業管理研討會, 廣州, 中國.
5. 彭中星, Lai, Yi-Hsuan, 車慧中, 陳芳瑜, 2009.10 "以專利為媒介探索綠能科技發展現況與研發方向-以離岸式風力發電機為例", 第二屆海峽兩岸創新方法(TRIZ)研討會, 成都, 中國.
6. Lai, Yi-Hsuan, 尤秋富, 2010.6 "台灣風力發電發展願景與產業政策分析初探", 2010 第二屆南區管理碩士論文研討會, 台南縣, 中華民國.
7. Lai, Yi-Hsuan, 李培聖, 2009.3 "建構預測技術模式之研究—以錄影監控之CCTV、DVR、IP Security為例", 管理與創新學術研討會, 桃園, 台灣.

8. Lai, Yi-Hsuan, 卓裕盛, 2009.3 "應用倒傳遞類神經網路於專利訴訟案件為基礎之專利價值研究", 管理與創新學術研討會, 桃園, 台灣.
9. Lai, Yi-Hsuan, 西川靜詠, 宋夢婷, 2008.8 "智慧型建築技術評估指標建立之初探", 科技與社會國際學術研討會, 新竹, 台灣.
10. Lai, Yi-Hsuan, 王承恩, 2009.5 "臉型辨識技術專利分析與技術預測", 2009第六屆企業經營管理研討會, 桃園, 台灣.
11. Lai, Yi-Hsuan, 車慧中, 王思儀, 2008.12 "以美國專利侵權訴訟判例為基礎的專利法律價值鑑價模型", 2008績效評估與價值創造研討會, 台北, 台灣.
12. Lai, Yi-Hsuan, CHE, HUI-CHUNG, WANG, SZU-YI, 2008.8 "Integrated Evaluator Extracted from Infringement lawsuits Using Back Propagation Neural Network", International Conference on Wavelet Analysis and Pattern Recognition (ICWAPR 2008), Hong Kong.
13. Yi-Hsuan Lai, Hui-chung CHE, Szu-Yi WANG, 2008.10 "Managing Patent Legal Value via Fuzzy Neural Network incorporated with Factor Analysis Based on Patent Infringement Lawsuits", WiCOM 2008: Engineering, Services and Knowledge Management Track (EMS 2008), Da-lien, China.
14. Che, Hui-Chung, Lai, Yi-Hsuan, Wang, Szu-Yi, 2009.1 "Modeling Patent Value via Fuzzy Neural Network", 2009 International Conference on e-Technology, Singapore, Singapore.
15. 車慧中, Lai, Yi-Hsuan, 王思儀, 2008.11 "專利法律價值的評價模型 (Assessment of Patent Legal Value)", 2008全國科技法律研討會, 新竹, 台灣.
16. 車慧中, Lai, Yi-Hsuan, 王思儀, 2009.1 "整合線性迴歸暨倒傳遞神經網路建構專利法律價值的評價模型", 2009兩岸系統性創新研討會暨解題研習會, 新竹, 台灣.
17. Lai, Yi-Hsuan, 車慧中, 2007.12 "以專利資訊為基礎之建構式灰預測方法", 中華萃思學會第二屆學術暨實務研討會, 新竹交通大學, 中華民國.
18. Lai, Yi-Hsuan, 車慧中, 王思儀, 李皞白, 莊婷聿, 2007.12 "模糊類神經網路方法建構專利鑑價模型之研究", 中華萃思學會第二屆學術暨實務研討會, 新竹交通大學, 中華民國.
19. 車慧中, Lai, Yi-Hsuan, 沈更新, 李皞白, 鄭惇方, 2007.12 "專利侵權辨識的數值化方法之研究", 中華萃思學會第二屆學術暨實務研討會, 新竹交通大學, 中華民國.
20. Lai, Yi-Hsuan, 陳芳郁, 2008.5 "利用專利引證區辨專利類型之研究—以靜脈辨識技術為例", 2008華人經濟圈企業競爭力與經營管理學術研討會, 新竹, 台灣.
21. Lai, Yi-Hsuan, 周淑婷, 2008.5 "應用專利資訊進行生物辨識產業分析與預測—以指紋、虹膜、靜脈辨識技術為例", 2008華人經濟圈企業競爭力與經營管理學術研討會, 新竹, 台灣.

22. Lai, Yi-Hsuan, 車慧中, 王思儀, 2008.5 "以訴訟判決為基礎的人工智慧專利評價方法", 2008華人經濟圈企業競爭力與經營管理學術研討會, 新竹, 台灣.

## **Professional Development**

### **I. Executive Editor for Journals**

Executive Editor (2006.08~2007.07), Chung Hua Journal of Management

### **II. Reviewer for Journals**

Chung Hua Journal of Management MingHsin Journal

### **III. Serve as Advisory Board Member for the Following Public Affairs Committee**

中華民國地區發展學會  
新竹市  
新竹縣環評審查會

副秘書長(2007.07~)  
市政顧問(2010.06~)  
委員(2010.03~)