國立東華大學教師個人基本資料表

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http:/faculty.ndhu.edu.tw/~chiou	
最高學歷/起迄：英國倫敦大學土木與環境工程博士 (1998/10)	**SUH-WEN CHIOU**
現職/起迄：資訊管理系教授 (2008/2 迄今)	
到任年月份(東華)：2002/8	

專長：	1.管理資訊系統	2.科技與創新管理
	3.電子商務	4.雲端與綠能產業

Sabbatical leave during 08/09-01/10; 08/10-01/11 at Imperial College London, UK.

■研究（1997～2012.5） **(1999-2010:3 篇前 2%;5 篇前 5%;1 篇前 10%) TOTAL PAPERS: 57 (SCI&SSCI:32), 30 篇列入管院 A 級期刊**

注意事項：　（一）　請詳列五年內（此段期間曾懷孕及生產者，得延長至七年內（2005.8～2012.7））發表之學術性著作，包括：期刊論文、專書及專書論文、研討會論文、技術報告及其他等，並請依各類著作之重要性自行排列先後順序。
　　　　　　（二）　各類著作請按發表時間先後順序填寫。各項著作請務必依作者姓名（按原出版之次序，通訊作者請加註*。）、出版年、月份、題目、期刊名稱（專書出版社）、起迄頁數之順序填寫。
　　　　　　（三）　若期刊屬於 SCI、EI、SSCI 或 A&HCI 等時，請註明。

學術著作(期刊及專書論文)：57 [2012:1, 2011:9; 2010:4; 2009:8; 2008:7, 2007:13, 2006:2,2005:4; prior 2005:9]

A、具匿名審查制度之期刊」

1.	Chiou, S-W (2012), A polynomial-time approximation algorithm for maximum concurrent flow problems. In: Z. Mann (Ed.) *Linear programming- New Frontiers in Theory and Applications*, chapter 4, pp. 135-158, Nova Science Publishers, New York. ISBN: 978-1-61209-579-0
2.	Chiou, S-W. (2011). Optimization for stock distribution in logistics network. In: W. Nelson (Ed.) *Advances in Business and Management,* Vol. 1, pp. 71-95. Nova Science Publishers, New York. Hardcover: ISBN 978-1-61761-998-4
3.	Chiou, S-W. (2011). Optimization for stock distribution in logistics network. In: W. Nelson (Ed.) *Advances in Business and Management,* Vol. 1, pp. 71-95. Nova Science Publishers, New York. eBook: ISBN 978-1-61209-492-2
4.	Chiou, S-W. (2011). Efficient implementations of bilevel programming methods for continuous network design problems. In: E.C. Salander (Ed.) *Computer search algorithms*, pp.71-88, Nova Science Publishers, New York. Hardcover: ISBN: 978-1-61122-527-3.
5.	Chiou, S-W. (2011). Efficient implementations of bilevel programming methods for continuous network design problems. In: E.C. Salander (Ed.) *Computer search algorithms,* pp.71-88, Nova Science Publishers, New York. eBook: ISBN: 978-1-61209-043-6
6.	Chiou, S-W. (2011), An optimization approach for inventory routing problem in congested road network. In: J.Varela and S. Acuna (Eds.) *Handbook of Optimization Theory: Decision Analysis and Application*, pp. 117-138, Nova Science Publishers, New York. Hardcover,

	ISBN 978-1-60876-500-3
7.	Chiou, S-W. (2011), An optimization approach for inventory routing problem in congested road network. In: J.Varela and S. Acuna (Eds.) *Handbook of Optimization Theory: Decision Analysis and Application*, pp. 117-138, Nova Science Publishers, New York. eBook, ISBN 978-1-62100-138-6
8.	Chiou, S-W. (2011), Optimization for network congestion management with elastic equilibrium flows. In: L.R. Hockley (Ed.) *Global Operations Management*, pp. 99-116, Nova Science Publishers, New York. Hardcover, ISBN 978-1-60876-355-9
9.	Chiou, S-W. (2011), Optimization for network congestion management with elastic equilibrium flows. In: L.R. Hockley (Ed.) *Global Operations Management*, pp. 99-116, Nova Science Publishers, New York. eBook, ISBN 978-1-61668-351-1
10.	**Chiou*, S-W (2011), A novel algorithm for area traffic capacity control with elastic travel demands, <u>Applied Mathematical Modelling</u> (SCI, IF: 1.375, Engineering, multidisciplinary: 17/79; Q1), 35, 650-666. 管院 A 級期刊**
11.	**Chiou*, S-W, (2010), Optimization of a nonlinear area traffic control system with elastic demand. <u>Automatica</u> (SCI, IF: 2.631, automation & control systems, 6/59, Q1) 46, 1626-1635 管院 A 級期刊**
12.	**Chiou*, S-W. (2010), An efficient algorithm for computing traffic equilibria using TRANSYT model. <u>Applied Mathematical Modelling</u> (SCI, IF: 1.375, 17/79; Q1), 34, 3390-3399. 管院 A 級期刊**
13.	Chiou, S-W. (2010), Optimizing routing problems with metaheuristic in congested road network. In: A.R. Baswell (Ed.) *Advances in Mathematics Research*, Vol. 11, pp. 83-102, Nova Science Publishers, New York. Hardcover, ISBN: 978-1-60876-970-4.
14.	Chiou, S-W. (2010), Optimizing routing problems with metaheuristic in congested road network. In: A.R. Baswell (Ed.) *Advances in Mathematics Research*, Vol. 11, pp. 83-102, Nova Science Publishers, New York. eBook, ISBN: 978-1-61209-216-4
15.	**Chiou*, S-W. (2009), Optimization for signal setting problems using non-smooth techniques, <u>Information Sciences</u> (SCI, IF: 3.291, Computer Science: 6/116; Q1) 179, 2985-2996. 管院 A 級期刊**
16.	**Chiou*, S-W. (2009), A bi-level programming for logistics network design with system-optimized flows, <u>Information Sciences</u> (SCI, IF: 3.291, Computer Science: 6/116; Q1) 179, 2434-2441. 管院 A 級期刊**
17.	**Chiou*, S-W. (2009), Optimization of limited network capacity with toll settings, <u>Information Sciences</u> (SCI, IF: 3.291, Computer Science: 6/116; Q1) 179, 109-119. 管院 A 級期刊**
18.	**Chiou*, S-W. (2009). An efficient algorithm for optimal design of area traffic control with network flows. <u>Applied Mathematical Modelling</u> (SCI, IF: 1.375, Engineering, multidisciplinary: 17/79; Q1) 33, 2710-2722. 管院 A 級期刊**
19.	**Chiou*, S-W. (2009). Simultaneously optimizing link tolls and signal settings in a road network. <u>Applied Mathematical Modelling</u> (SCI, IF: 1.375, Engineering, multidisciplinary: 17/79; Q1) 33, 2311-2323. 管院 A 級期刊**
20.	**Chiou*, S-W. (2009), A subgradient optimization model for continuous road network design problem, <u>Applied Mathematical Modelling</u>, (SCI, IF: 1.375, Engineering,**

	multidisciplinary: 17/79; Q1) 33, 1086-1096. 管院 A 級期刊
21.	Chiou, S-W. (2009), Optimization algorithms for signalized road network design problem, In: S. E. Paterson and L. K. Allan (Eds.), *Road Traffic: Safety, Modeling, and Impacts*, Nova Science Publishers, New York, pp. 367-383. Hardcover, ISBN 978-1-60456-884-4
22.	Chiou, S-W. (2009), Optimization algorithms for signalized road network design problem, In: S. E. Paterson and L. K. Allan (Eds.), *Road Traffic: Safety, Modeling, and Impacts*, Nova Science Publishers, New York, pp. 367-383. eBook, ISBN 978-1-61668-003-9
23.	**Chiou*, S-W. (2008), An efficient search algorithm for network optimization, Applied Mathematics and Computation, (SCI, IF: 1.124, 61/204; Q2) , 201, pp128-137.** 管院 A 級期刊
24.	**Chiou*, S-W. (2008), A fast polynomial time algorithm for logistics network flows, Applied Mathematics and Computation, (SCI, IF: 1.124, 61/204; Q2) 199(1), pp. 162-170.** 管院 A 級期刊
25.	**Chiou*, S-W. (2008), A nonsmooth model for signalized road network design problems, Applied Mathematical Modelling, (SCI, IF: 1.375, Engineering, multidisciplinary: 17/79; Q1), 32(7) 1179-1190.** 管院 A 級期刊
26.	**Chiou*, S-W. (2008), A hybrid approach for optimal design of signalized road network, Applied Mathematical Modelling, (SCI, IF: 1.375, Engineering, multidisciplinary: 17/79; Q1), 32, 195-207.** 管院 A 級期刊
27.	**Chiou*, S-W. (2008), Optimization of congestion pricing road network with variable demands, Applied Mathematics and Computation, (SCI, IF: 1.124, 61/204; Q2), 195(2), 382-391.** 管院 A 級期刊
28.	**Chiou* S-W. (2008), Optimization of multi-tiered supply chain networks with equilibrium flows. In: V. Kordic (Ed.), *Supply Chains: Theory and Application*, ARS Publishing, Vienna, Austria, pp. 231-246. ISBN: 978-3-902613-22-6**
29.	**Chiou*, S-W. (2008), Solving maximum concurrent flow problems in a signal-controlled road network. In: A. S. Becker (Ed.), *Concurrent and Parallel Computing: Theory*, Implementation and Applications, Nova Science Publishers, New York, pp. 213-233. ISBN: 978-1-60456-274-3.**
30.	**Chiou*, S-W. (2007), A non-smooth optimization model for a two-tiered supply chain network, Information Sciences, (SCI, IF: 3.291, Computer Science: 6/116; Q1), 177, 5754-5762.** 管院 A 級期刊
31.	**Chiou*, S-W. (2007), Comparative tests of solution methods for signal-controlled road networks, Information Sciences, (SCI, IF: 3.291, Computer Science: 6/116; Q1) 177(19), 4109-4121.** 管院 A 級期刊
32.	**Chiou*, S-W. (2007), A descent framework for linked signal system with network flows, Applied Mathematics and Computation, 194, 441-452. (SCI, IF: 1.124, 61/204; Q2)** 管院 A 級期刊
33.	**Chiou*, S-W. (2007), An optimization model for area traffic control with link tolls, Applied Mathematics and Computation, 192, 520-532. (SCI, IF: 1.124, 61/204; Q2)** 管院 A 級期刊
34.	**Chiou*, S-W. (2007), Reserve capacity of signal-controlled road network, Applied Mathematics and Computation, (SCI, IF: 1.124, 61/204; Q2) 190(2), 1602-1611.** 管

	院 A 級期刊
35.	Chiou*, S-W. (2007), An iterative scheme for signal settings and network flows, <u>Applied Mathematics and Computation</u>, (SCI, IF: 1.124, 61/204; Q2) 189(2), 1808-1815. 管院 A 級期刊
36.	Chiou*, S-W. (2007), Optimal design of signal-controlled road network, <u>Applied Mathematics and Computation</u>, (SCI, IF: 1.124, 61/204; Q2),189(1), 1-8. 管院 A 級期刊
37.	Chiou*, S-W. (2007), A generalized iterative scheme for network design problem, <u>Applied Mathematics and Computation</u>, (SCI, IF: 1.124, 61/204; Q2) 188(2), 1115-1123. 管院 A 級期刊
38.	Chiou*, S-W. (2007), An efficient computation algorithm for area traffic control problem with link capacity expansions, <u>Applied Mathematics and Computation</u>, (SCI, IF: 1.124, 61/204; Q2) 188(2), 1094-1102. 管院 A 級期刊
39.	Chiou*, S-W. (2007), A globally convergent iterative scheme for toll design network with signal settings, <u>Applied Mathematics and Computation</u>, (SCI, IF: 1.124, 61/204; Q2) 187(2), 1086-1099. 管院 A 級期刊
40.	Chiou*, S-W. (2007), A combinatorial approximation algorithm for supply chain network flow problem, <u>Applied Mathematics and Computation</u>, (SCI, IF: 1.124, 61/204; Q2) 186(2), 1526-1536. 管院 A 級期刊
41.	Chiou*, S-W. (2007), A hybrid optimization algorithm for area traffic control problem, <u>Journal of the Operational Research Society</u>, 58, (SSCI & SCI, IF: 1.009, management: 36/73, Q2), 816-823.
42.	Chiou*, S-W. (2007) A new solution scheme for link toll optimization problem. In: B.G. Heydecker (Ed.) *Mathematics in Transport, Elsevier Science*, Oxford, U.K. IN PRESS. (NSC 93-2416-H-259-007)
43.	Chiou*, S-W. (2006), An optimal scheme for toll pricing problem, <u>Applied Mathematics and Computation</u>, (SCI, IF: 1.124, 61/204; Q2),182(2), 1127-1136. 管院 A 級期刊
44.	Chiou*, S-W. (2006) Maximizing reserve capacity for a signalized road network design. *Proceedings of the IEEE ITSC 2006*, 2006 IEEE Intelligent Transportation Systems Conference, Toronto, Canada, September 17-20, 2006, pp.1090-1095. (NSC 95-H-2416-259-014)
45.	Chiou*, S-W. (2005), Joint optimization for area traffic control and network flow. <u>Computers & Operations Research</u>, 32(11), (SCI, IF: 2.116, operations research and management science; 2/37, Q1), pp 2821-2841. 管院 A 級期刊
46.	Chiou*, S-W. (2005), Bilevel programming for the continuous transport network design problem, <u>Transportation Research Part B</u>, (SCI & SSCI, IF: 2.268, transportation science and technology; 2/26, Q1), 39(4), 361-383.
47.	Chiou*, S-W. (2005), A combinatorial approximation algorithm for concurrent flow problem and its application. <u>Computers & Operations Research</u>, SCI, IF: 2.116, operations research and management science; 2/37, Q1) 32(4), 1007-1035. 管院 A 級期刊
48.	Chiou*, S-W. (2005), Integrating the inventory management and vehicle routing problems for congested urban logistics network, <u>Journal of the Eastern Asia</u>

	Society for Transportation Studies, Vol. 6, pp. 3038-3051.
49.	Chiou*, S-W. (2004) Reserve capacity of a signalized road network with equilibrium flow, presented at SEOUL METROPOLITAN Behavior in Networks (BINs) 2004 Fora, Seoul, Korea, July. Collected at proceedings pp 315-324
50.	Chiou*, S-W. (2003), TRANSYT derivatives for area traffic control optimisation with network equilibrium flows, <u>Transportation Research Part B</u>, (SCI & SSCI, IF: 2.268, transportation science and technology: 2/26, Q1), 37(3) 263-290. 管院A級期刊
51.	Chiou*, S-W. (2001) Global supply chain network design: centralization vs. decentralization for inventory management and distribution", <u>MIS Reviews</u>, pp 11-46. ISSN: 1018-1393
52.	Chiou*, S-W. , Chun-Yu, Yu (2001) Optimization of stock management for a centralized supply chain network, <u>Information Management Research</u>, 3(2), pp 109-131. ISSN: 1028-6209
53.	Wang, Y-H, Kao, Y-C, Chiou*, S-W, Chun, Y-Y (2001) Investigation of global supply chain inventory management strategies: a case study of Chunghwa picture tubes, <u>Chinese Business Horizon</u>, 2(1) pp 117-134. ISSN: 1606-0024.
54.	Chiou*, S-W. (1999) Optimisation of area traffic control for equilibrium network flows. <u>Transportation Science</u>, (SCI & SSCI, IF: 1.479, transportation science and technology: 10/26, Q2), 33(3), pp 279-289.
55.	Chiou*, S-W. (1998) Bi-level formulation for equilibrium traffic flow and signal settings, In: Griffths (Ed.), _Mathematics in Transportation Planning and Control_, Elsevier Science, London, pp. 59-68
56.	Chiou*, S-W. (1998) Optimisation of traffic signal timings for user equilibrium flow. _Proceedings of 3rd Transportation Research Board International Symposium on Highway Capacity_, Vol I (Rysgaard, Ed) Danish Road Directorte, Copenhagen, pp 321-336. ISBN：87-7491-905-9, ISSN：0909-4288
57.	Chiou*, S-W. (1997), Optimisation of area traffic control subject to user equilibrium traffic assignment, _25th European Transport Forum, Proceeding of seminar F, Transportation Planning Methods:_ Vol. 2, PTRC. London, pp. 53-64.
B.研討會論文(up to 5 years)：	
1.	Chiou, S-W. (2010) Optimisation for continuous time toll setting problem, presented at 5th IMA international conference on Mathematics in Transport, 12-14 April, UCL, London.
2.	Chiou, S-W. (2009) Optimization of Network Congestion Control with Variable Travel Demands, INFORMS 2009 ANNUAL MEETING, San Diego, USA
3.	Chiou, S-W. (2007/11) An optimal design of toll pricing problem for road networks, INFORMS 2007 annual meeting, Seattle, USA.
4.	Chiou, S-W. (2006/9), Maximizing reserve capacity for a signalized road network design. Proceedings of the IEEE ITSC 2006, 2006 IEEE Intelligent Transportation Systems Conference, Toronto, Canada, September 17-20, pp.1090-1095.
5.	Chiou, S-W. (2005/9), A new solution scheme for link toll optimization problem, presented at the 4th IMA conference on Mathematics in Transport, 7-9 Sep. London, U.K.
6.	Chiou, S-W. (2005/1) Modeling a continuous network design problem for signal-controlled road network, presented at 84th TRB annual conference, Washington, D.C. USA. (NSC 93-2416-H-259-007)

C.技術報告(up to 5 years)：	
1.	Chiou, S-W. (2007) Integrating inventory and vehicle routing problem for logistics network, Final report, NSC 94-H-2416-259-008.
2.	Chiou, S-W. (2005) A spatial price network design problem, NTU, Taipei, NSC-93-2416-H-259-007.

研究計畫（2000.8～2012.7）：

起迄年月	研究計畫名稱	主持人/共同主持人	計畫經費 (NT$)	補助單位
99/08-100/07	環境意識下的動態區域交通控制資訊系統之設計分析與實作 (99-2221-E-259-005-)	主持人	585,000	行政院國科會
99/01-99/12	運輸資源網路最佳化分析與動態系統控制研究 (99-2918-I-259-001)	主持人	570,090	行政院國科會
98/08~101/07	動態運輸網路擁擠控制之最佳化研究 (98-2410-H-259-009-MY3)	主持人	2,015,000	行政院國科會
96/08~99/07	多種商品網路流量設計分析及實作(96-2416-H-259-010-MY2)	主持人	1,360,000	行政院國科會
95/08 ~97/04	週期性運籌網路存貨與車輛途程設計(95-2416-H-259-014-)	主持人	681,000	行政院國科會
94/08-95/07	整合運籌網路存貨與車輛途程問題(94-2416-H-259-008-)	主持人	774,000	行政院國科會
93/08-94/07	空間價格均衡網路設計 (93-2416-H-259-007-)	主持人	665,600	行政院國科會
92/08-93/07	連續型均衡運籌網路問題最佳化設計(92-2416-H-259-005-)	主持人	687,800	行政院國科會
91/08-92/07	雙層規劃法應用於供應鏈網路設計(91-2416-H-259-015-)	主持人	539,000	行政院國科會
90/08-91/07	供應鏈階層網路下之最佳化存貨管理策略 (90-2416-H-036-001-)	主持人	402,300	行政院國科會
89/08-90/07	供應鏈階層網路最佳化模式之設計分析與實作 (89-2416-H-036-001-)	主持人	313,200	行政院國科會
90/01-12	九十年度製商整合科技教育改進計畫-資訊產業電子化之產學合作製商整合教育	共同主持人	2,400,000	教育部顧問室(MOE)

	■ 教學（2007.8～2011.7）(2009-2011 SABBATICAL LEAVE)

2007-2012 年內開授課程：

學年度	課程名稱(必/選)	學分數	選修人數
96-1	管理資訊系統研究(必)	3	1
96-1	電子商務專題(必)	3	8

96-1	程式設計(一)(必)	3	56
96-1	物件導向技術(必)	3	37
96-1	電子商務專題(一)(必)	2	28
96-1	電子商務專題(三)(必)	2	14
96-1	行銷管理資訊系統(選)	3	60
96-2	程式設計(二)(必)	3	54
96-2	決策支援系統(選)	3	15
96-2	電子商務專題(二)(必)	2	28
97-1	行銷管理資訊系統(英)	3	45
97-1	管理資訊系統(英)	3	50
97-2	管理資訊系統研究(英)	3	4
97-2	管理資訊系統(英)	3	9
97-2	決策支援系統(英)	3	19
98-2	管理資訊系統(英)	3	9
99-2	管理資訊系統(英)	3	12
99-2	智慧型資訊系統(英)	3	13
100-1	電子商務專題(英)	3	8
100-1	行銷管理資訊系統(英)	3	24
100-2	管理資訊系統(英)	3	7

指導研究生狀況(2007-2012)：

學年度	碩士班(人)	博士班(人)	畢業人數	
			碩士	博士
97	1	0	1	0
96	1	0	0	0
98	1	0	1	0
100	2	0	0	0

	■ 服務（**2007.8～2012.7**）**(2009-2011 SABBATICAL LEAVE)**

校內校、院、系(所、科及中心)各級公共事務參與：

年月	校/院/系級	項目
95/8	院級	學術評獎委員會委員
95/8	校級	課程委員會委員
95-98	系級	教師評審委員
97-100	校級	教師評審委員

專業學術服務工作項目：

年月	校內/校外	項目
95	校外	行政院國科會專題計畫初審委員
95	校外	第二屆大專院校交通工程與智慧型運輸系統專題論文競賽審查委員
95	校外	International Journal of Operations Research (IJOR) 論文審查委員
95	校外	European Journal of Operations Research 論文審查委員
95	校外	Applied Mathematical Modelling 論文審查委員

95	校外	The 10th International IEEE Conference on Intelligent Transportation Systems 論文審查委員
95	校外	Proceedings of the 2nd International Conference on Transport & Logistics Systems 論文審查委員
95-	校外	Reviewer for Computers and Operations Research (SCI)
95-	校外	Reviewer for European Journal of Operational Research (SCI)
95-	校外	Reviewer for Computers and Operations Research (SCI)
95-	校外	Reviewer for Applied Mathematics and Computation (SCI)
95-	校外	Reviewer for Applied Mathematical Modelling (SCI)
95-	校外	Reviewer for Information Sciences (SCI)
96-	校外	Reviewer for Transportation Research Part E (SSCI&SCI)
95-	校外	Editorial Board for The Open Transportation Journal
95-	校外	Editorial Board for The Open Management Journal
95-	校外	Editorial Board for The Open Operational Research Journal
95-	校外	Reviewer for IEEE Transactions on Intelligent Transportation Systems (SCI)
98-	校外	Reviewer for Journal of Advanced Transportation (SCI)
99-	校外	Reviewer for Transportation Research Part B (SSCI&SCI)
99-	校外	Reviewer for Automatica (SCI)
99-	校外	Reviewer for Networks (SCI)
99-	校外	Reviewer for International Journal of Management Science and Engineering Management
99	校外	Sabbatical leave at Imperial College London, UK

■ 教學與研究獎勵（**2007.8～2011.7**）

學年度	校內/校外	項目
96	校內	國立東華大學 96 年度管理學院學術研究績效卓越獎勵(NT$240,000)
97	校內	國立東華大學 97 年度管理學院學術研究績效卓越獎勵(NT$240,000)
98	校內	國立東華大學 98 年度管理學院學術研究績效卓越獎勵(NT$240,000)
99	校內	國立東華大學 99 年度獎勵特殊優秀人才特聘二級教授(NT$360,000)
99	校外	行政院國科會 99 年度第 48 屆科學與技術人員國外短期研究: 99-2918-I-259-001(NT$570,090)
100	校內	行政院國科會 100 年度獎勵人才研究優良教授(NT$360,000)

以上資料屬實。填表人簽名：＿＿＿＿＿＿＿＿＿（電子檔免填），填表日期：＿4/15/2012＿。