
Jih-Chang Wang, Ph.D.
Assistant Professor
Department of Information Management
College of Management
Chang Gung University
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Professional Interests

Academic Background

Ph.D. National Chiao Tung University, Hsinchu, Taiwan, Traffic and Transportation, 1997.

M.S. National Chiao Tung University, Hsinchu, Taiwan, Business Administration, 1992.

B.S. National Chiao Tung University, Hsinchu, Taiwan, Computer Engineering, 1987.

Qualification

Academically Qualified

Work Experience

Associate Professor, Department of Information Management, Chang Gung University (February, 1999 - Present), Taoyuan, Taiwan.

Associate Professor, Department of Information Management, I-Shou University (September, 1998 - January, 1999), Kaohsiung, Taiwan.

Post Doctor, Energy and Environmental Research Group, National Chiao Tung University (August, 1997 - July, 1998), Taipei, Taiwan.

The Computer Lecturer, Essence Computer Co. (January, 1991 - December, 1991), Taipei, Taiwan.

The Computer system analyst, The Trade Group Ding Qin (January, 1988 - December, 1990), Taipei, Taiwan.

Professional Experience

The Computer Lecturer, Harvard Computer Learning Center (January, 1988 - December, 1989), Taipei, Taiwan.

The Computer Lecturer, Ladder Digital Education Corp. (January, 1987 - December, 1988), Taipei, Taiwan.

The Computer Lecturer, Jector Technology Inc. (January, 1987 - December, 1987), Taipei, Taiwan.

Professional Memberships

Chinese Institute of Transportation, tenured

Teaching

Courses from the Teaching Schedule: (IMM127) Artificial Neural Network, (IM2301) Community Services, (IM1201) Computer Programming (1), (IM1202) Computer Programming (2), (SBM436) Electronic Commerce, (IMM496) Fuzzy Decision Analysis, (IMM131) Fuzzy Set Theory, (IM4504) Graduate Project (1), (IM1123) Internet Marketing, (SBM423) Internet Marketing, (IM2125) Marketing Management, (SBM610) Marketing Management, (IMM495) Multiple Criteria Decision Making, (MC1005) Programming, (IMM111) Seminar on Decision Analysis, (IMM710) Technologies of Electronic Commerce, (SBM415) Technologies of Electronic Commerce

Teaching Activities

Student Assign-Students Advised (GRAD)

2009 - 7 students.

2008 - 6 students.

2007 - 2 students.

2006 - 7 students.

Intellectual Contributions

Intellectual Contributions Grid

Category	DBS	CTP	LPS	Total
Articles in Refereed Journals	19			19
Publications in Refereed Conference Proceedings	44			44
Publications of Non-refereed or Invited Papers	1			1
Books, Monographs, Compilations, Manuals, Supplements, Chapters, Cases, Readings	1			1

College Approved Articles

Discipline-Based Scholarship

- Wang, J., & Chen, T. (2018). Multiple criteria decision analysis using correlation-based precedence indices within Pythagorean fuzzy uncertain environments. *International Journal of Computational Intelligence Systems*, 11 (1), 911-924.
- Wang, J., & Chen, T. (2015). A simulated annealing-based permutation method and experimental analysis for multiple criteria decision analysis with interval type-2 fuzzy sets. *Applied Soft Computing*, 36, 57-69.
- Wang, J., & Chen, T. (2015). An interval type-2 fuzzy permutation method and experimental analysis for multiple criteria decision analysis with incomplete preference information. *Journal of Industrial and Production Engineering*, 32 (5), 298-310.
- Wang, J., Tsao, C.-Y., & Chen, T. (2015). A likelihood-based QUALIFLEX method with interval type-2 fuzzy sets for multiple criteria decision analysis. *Soft Computing*, 19 (8), 2225-2243.
- Wang, J., & Chen, T. (2015). Likelihood-based assignment methods for multiple criteria decision analysis based on interval-valued intuitionistic fuzzy sets. *Fuzzy Optimization and Decision Making*, 14 (4), 425-457.
- Wang, J., & Chen, T. (2014). A closeness coefficient-based multiple criteria decision-making method using interval type-2 fuzzy sets and its application to watershed site selection. *Journal of Industrial and Production Engineering*, 31 (1), 1-16.
- Wang, J., & Chen, T. (2014). Approach to multiple criteria group decision-making with incompletely identified information based on interval type-2 fuzzy sets. *Advances in Fuzzy Sets and Systems*, 18 (2), 131-149.
- Chen, T., Wang, H.-P., & Wang, J. (2012). Fuzzy automata based on Atanassov fuzzy sets and applications on consumers' advertising involvement. *African Journal of Business Management*, 6 (3), 865-880.
- Chen, T., & Wang, J. (2012). Intuitionistic fuzzy decision analysis with dissonance reduction for optimistic/pessimistic decision makers. *Pan-Pacific Management Review*, 15 (2), 99-129.
- Chen, T., & Wang, J. (2012). An interactive procedure for interval type-2 fuzzy decision making with incomplete information and applications to site selection. *Advances in Fuzzy Sets and Systems*, 12 (1), 17-48.
- Chen, T.-Y., & Wang, J. (2009). Interval-valued fuzzy permutation method and experimental analysis on cardinal and ordinal evaluations. *Journal of Computer and System Sciences*.
- Sheng,, H.-M., Wang, J.-C, Huang, H.-H., & Yen, D.C. (2006). Fuzzy measure on vehicle routing problem of hospital materials. *Expert Systems with Applications*.
- Wang, J., & Chen, T.-Y. (2005). Experimental analysis of λ -fuzzy measure identification by evolutionary algorithms. *International Journal of Fuzzy Systems*.
- Chen, T.-Y., & Wang, J. (2001). Identification of λ -fuzzy measures using sampling design and genetic algorithms. *Fuzzy Sets and Systems*.
- Chen, T.-Y., Wang, J., & Tzeng, G.-H. (2001). Using genetic algorithms to identify fuzzy measures for multiple attribute decision making. *Pan-Pacific Management Review*.
- Chen, T.-Y., Wang, J., & Tzeng, G.-H. (2000). Identification of general fuzzy measure by genetic algorithm based on partial

information. *IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics*.

Chen, T.-Y., Wang, J., & Tzeng, G.-H. (1999). Dynamic analysis of importance-assessing for evaluation criteria using habitual domain theory (in Chinese). *Journal of Management (in chinese)*.

Tzeng, G.-H., Chen, T.-Y., & Wang, J. (1998). A weight-assessing method with habitual domains. *European Journal of Operational Research*.

Tzeng, G.-H., Zhang, S.-L., Wang, J., Xu, G.-Q., & Zhuang, M.-C. (1998). Applications of fuzzy multi-objective programming on economic-energy-environment models (in Chinese). *Journal of Management (in chinese)*.

Refereed Proceedings

Discipline-Based Scholarship

Wang, J., & Chen, T. (2014). Multiple criteria decision analysis using an interval-valued intuitionistic fuzzy LAM approach. *2014 International Conference on Information Technology and Management Engineering (ITME2014)*, T083-1~T083-6.

Chen, T.-Y., Wang, J., & Tsui, C.-W. (2007). Decision model with permutation methods based on intuitionistic fuzzy sets. *the 8th Asia Pacific Industrial Engineering and Management System and 2007 Chinese Institute of Industrial Engineers Conference*

Wang, J., & Chen, T.-Y. (2006). Bisection algorithms for solving λ -fuzzy measures. *11th International Conference on Fuzzy Theory and Technology in conjunction with the 9th Joint Conference on Information Sciences*.

Chen, T.-Y., & Wang, J. (2006). Reducing positive leniency in fuzzy measure ratings. *11th International Conference on Fuzzy Theory and Technology in conjunction with the 9th Joint Conference on Information Sciences*.

Wang, J., Tian, J.-S., Zhang, S.-W., & Lu, C.-R. (2006). Applications of neural networks in Chinese medicine (in Chinese). *3rd Taiwanese Conference on Operations Research*.

Chen, T.-Y., & Wang, J. (2006). Illustrating traditional Chinese stratagem with habitual domains and competence sets. *Sublimation of Chinese Management Indigenisation*.

Chen, T.-Y., & Wang, J. (2005). An inquiry into the travel website performance and client-side functions from the viewpoint of eCRM and balanced scorecards -- cases in Taiwan market. *6th Asia Pacific Industrial Engineering and Management System Conference*

Chen, T.-Y., & Wang, J. (2005). An importance-assessing method with fuzzy number-valued fuzzy measures. *6th Asia Pacific Industrial Engineering and Management System Conference*.

Liu, T.-C., & Wang, J. (2005). A discrete particle swarm optimizer for graphic presentation of GMDH network. *International Conference on Systems, Man and Cybernetics*.

Wang, J., Liu, T.-C., & Chen, T.-Y. (2005). A multi-level sequential particle swarm optimizer for visualization of GMDH neural network. *2005 International Conference on Business and Information*.

Wang, J., Chen, T.-Y., & Liu, E. (2005). Applying lambda-fuzzy measures to expand competence sets--case of market segments moving. *2005 International Conference on Business and Information*.

Wang, J., Lin, G.-H., He, Q.-Y., Liao, X.-J., & Chen, W.-H. (2003). Development of the monitoring module in FPG ERP systems (in Chinese). *3rd Conference on FPG Application Technology*.

Wang, J., & You, Z.-W. (2003). Financial objective programming in FPG ERP systems (in Chinese). *3rd Conference on FPG Application Technology*.

Wang, J., Cai, M.-X., & Chen, T.-Y. (2003). Developing a modified bisection search algorithm to solve λ -fuzzy measures (in Chinese). *the Joint Conference on AI, Fuzzy System, and Grey System*.

Chen, T.-Y., Wang, J., Cheng, Y.-H., & Chen, R.-R. (2002). A two-stage evaluation model of supplier selection for hospital materials (in Chinese). *2002 ECRI Conference on Electronic Commerce and Business Management*.

Wang, J., Chen, T.-Y., LnLu, C.-H., & Kuo, Z.-Y. (2002). A multiobjective evolutionary artificial neural network (in Chinese). *the 10th National Conference on Fuzzy Theory and Its Applications*.

Chen, T.-Y., Wang, J., Li, K.-W., & Tian, Y.-Z. (2002). Exploring stimulus determinants influencing attention allocation and applications on Internet advertisements (in Chinese). *the 10th Conference on Habitual Domains*.

Chen, T.-Y., Wang, J., & Tzeng, G.-H. (2002). Exploring decision making process based on competence set analysis. *The 5th International Conference on Multi-Objective Programming and Goal Programming: Theory & Applications*.

Chen, T.-Y., Wang, J., & Cheng, Y.-H. (2002). Applying fuzzy measures to develop supplier selection models (in Chinese). *2002 National Conference on Electronic Business and Logistics Management*.

- Wang, J., Chen, T.-Y., & Shen, H.-M. (2002). The period vehicle routing problem for the pick-up activities (in Chinese). *2002 National Conference on Electronic Business and Logistics Management*.
- Chen, T.-Y., Wang, J., & Tzeng, G.-H. (2002). Assessing measurement scales for the construct of consumer involvement. *16th MCDM World Conference*.
- Wang, J., Chen, T.-Y., & Shen, H.-M. (2001). Using fuzzy densities to determine the λ -value for λ -fuzzy measures. *the 9th National Conference on Fuzzy Theory and Its Applications*.
- Wang, J., Chen, T.-Y., & LnLu, C.-H. (2001). Apply genetic algorithms on effective expansion of competence sets. *the 9th National Conference on Fuzzy Theory and Its Applications*.
- Chen, T.-Y., & Wang, J. (2001). Using the behavior mechanism to explore behavior modification techniques. *the 9th Conference on Habitual Domains*.
- Chen, T.-Y., Wang, J., Cheng, Y.-H., & Chen, Y.-C. (2001). Reducing information demand of λ -fuzzy measure identification. *the 9th National Conference on Fuzzy Theory and Its Applications*.
- Chen, T.-Y., Chen, H.-H., & Wang, J. (2000). Employee's thinking process and organization's supportive system--an application of habitual domains on human resource management (in Chinese). *the 8th Conference on Habitual Domains*.
- Chen, T.-Y., & Wang, J. (2000). Using competence sets to analyze levels of consumer decision making (in Chinese). *the 8th Conference on Habitual Domains*.
- Chen, T.-Y., & Wang, J. (2000). Apply genetic algorithms on λ -fuzzy measure identification. *the 8th National Conference on Fuzzy Theory and Its Applications*.
- Chen, T.-Y., & Wang, J. (1999). Using competence sets to analyze the principal-agent problem. *the 7th Conference on Habitual Domains*.
- Chen, T.-Y., Chen, H.-H., & Wang, J. (1998). Expending habitual domains to reach a higher state of total quality management (in Chinese). *the 6th Conference on Habitual Domains*.
- Chen, T.-Y., Wang, J., & Tzeng, G.-H. (1997). Exploring public attitude towards the CNG taxi policy from habitual domains--an empirical study in Taipei City (in Chinese). *the 5th Conference on Habitual Domains*.
- Tzeng, G.-H., Chen, T.-Y., & Wang, J. (1996). Design an effective expansion process of competence sets under experiential effects (in Chinese). *the 4th Conference on Habitual Domains*.
- Tzeng, G.-H., Wang, J., & Ou, J.-R. (1995). The selection of power supply system for electric vehicle by using fuzzy multicriteria decision making. *CFSA/IFIS/SOFT'95*.
- Tzeng, G.-H., Wang, J., & Chen, T.-Y. (1995). A dynamic weight assessing method with habitual domain. *TIMS XXXIII International Meeting*.
- Chen, T.-Y., Wang, J., & Tzeng, G.-H. (1995). A weight assessing method with habitual domain theory. *the 3rd Conference on Habitual Domains*.
- Tzeng, G.-H., Deng, Z.-Y., Yang, J.-C., & Wang, J. (1994). Location selection problems of emergency service facility in highway: a traffic safety perspective (in Chinese). *the 1st Conference on Transportation Safety*.
- Tzeng, G.-H., Zhuang, B.-J., Wang, J., & Jiang, J.-Y. (1994). Applications of GMDH on air pollution forecasting in Taipei City (in Chinese). *the 5th Conference on Environment Decision and Management*.
- Tzeng, G.-H., Tsaor, S.-H., & Wang, J. (1994). Simulated annealing and multiobjective decision making to the bi-level network design problems. *EURO XIII/OR 36*.
- Tzeng, G.-H., & Wang, J. (1994). MCDM for network design using fuzzy neural networks. *EURO XIII/OR 36*.
- Wang, J., Chen, T.-Y., & Chen, P.-C. (1994). Using artificial neural network to analyze car-ownership and parking behavior under the strategy of car-buying with parking space (in Chinese). *the 9th CIT National Conference*.
- Tzeng, G.-H., Wang, J., & Qiu, Y.-C. (1993). Applications of multiattribute fuzzy cluster analysis on student grading (in Chinese). *the 1st National Conference on Fuzzy Theory and Its Applications*.
- Tzeng, G.-H., & Wang, J. (1993). The multiple criteria decision making of the power supply system of electric vehicle. *IAEE 15*.
- Tzeng, G.-H., Wang, J., & Chiu, Y.-C. (1993). The study of optimal tax adjustment for petroleum products -- the application of multicriteria decision making. *IAEE 15*.
- Tzeng, G.-H., Deng, Z.-Y., Xiao, Z.-A., & Wang, J. (1992). Applications of multicriteria decision making methods on the entrance policy of colleges (in Chinese). *the Academic Conference on College Education*.

Non-College Approved Articles

Discipline-Based Scholarship

Wang, J., & Chen, T. (2017). A novel multiple criteria decision-making method using a likelihood-based compromise approach under complex uncertainty. *International Journal of Research in Engineering & Technology*, 6 (6), 46-57.

Chapters, Cases, Readings, Supplements

Chapters

Chen, T., Wang, J., & Chang, H.-L. (1995). Applying habitual domains to modify the self-organizing map. *Fuzzy Logic for the Applications to Complex Systems*. World Scientific Publishing.

Grants

Research

2010: Wang, J. A Case Study on Business Model of PWLAN Advertise and Hardware Manufacture, Principal Investigator.

2008: Wang, J. Data mining analysis of the development projects, Principal Investigator.

2005: Wang, J. Applying Discrete Particle Swarm Optimization and Lambda-Fuzzy Measure to Interactive Competence Sets, Principal Investigator.

2004: Wang, J. Exploring Routing Problems by Using Fuzzy Measures and Fuzzy Inference, Principal Investigator.

2004: Chen, T. & Wang, J., Case Studies in Operation and Marketing Management of Enterprises (4/4).

2004: Wang, J. Logistic Collaboration Policy: Analysis and Recommendation, Principal Investigator.

2003: Chen, T. & Wang, J., Case Studies in Operation and Marketing Management of Enterprises (3/4).

2003: Wang, J. Customer Relationship Management in Chang Gung Health and Culture Village, Principal Investigator.

2003: Wang, J. Identification of Lambda Fuzzy Measures with Nonlinear Optimization and Web Software Development, Principal Investigator.

2002: Chen, T. & Wang, J., Case Studies in Operation and Marketing Management of Enterprises (2/4).

2001: Chen, T. & Wang, J., Case Studies in Operation and Marketing Management of Enterprises (1/4).

2001: Wang, J. Using Fuzzy Measures to Establish the Attitude Model for Web Choice Behavior--Cases of Chinese Portal Web Sites, Principal Investigator.

2001: Chen, T. & Wang, J., Case Studies with Formosa Group in Marketing Management.

2000: Wang, J. Analyzing Switching Barrier in Consumer Behavior for Internet Marketing--Case of Healthcare Products, Principal Investigator.

2000: Chen, T. & Wang, J., A Strategic Framework for Business Logistics in Electronic Marketplaces--Cases of Physical, Digital, and Information Goods.

1999: Wang, J. Consumer Behavior Analysis of Piracy Software, Principal Investigator.

1998: Tzeng, G.-H., Chen, T., & Wang, J., The Attitude and Behavior Analysis towards Air Pollution of the Public and Pollution Producers.

Service

Professional Development

Assurance of Learning - Professional Development

2015: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 2

2015: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 7

2015: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 3

2015: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 6

2015: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 1

2015: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 5

2014: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 2

2014: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 1

2009: Center of General Education - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 2
2009: Center of General Education - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 1
2009: College of Medicine - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 4
2009: Center of General Education - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 3
2009: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 7
2009: College of Engineering - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 6
2009: Center of General Education - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 9
2008: Center of General Education - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 3
2008: College of Management - Enhancing Teaching Effectiveness, Taoyuan, Taiwan. Session 8