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Education

- * PhD, Department of Industrial Engineering, University of Texas at Arlington, Texas, U.S.A., 1993/6
- * Master, Department of Industrial Engineering, University of Texas at Arlington, Texas, U.S.A., 1990/1

Area of Specialty

- * Operational Research
- * Fuzzy Multiple Criteria Decision Making

Academic Experience

- * Professor, Department of Industrial Management and Information, Southern Taiwan University of Science and Technology, 2016/8 to present
- * Chairperson, Department of Management and Information Technology, Southern Taiwan University of Science and Technology, 2010/8 to 2016/7
- * Professor, Department of Industrial Management, Southern Taiwan University of Science and Technology, 2002/2 to 2016/7
- * Associate Professor, Department of Industrial Management, Southern Taiwan University of Science and Technology, 1993/8 to 2002/1

Journal Papers

1. H.T. Nguyen and T.C. Chu (2023), Ranking startups using DEMATEL-ANP-based fuzzy PROMETHEE II, *Axioms* 12 (6), 1-34. (SCIE)
2. T.B.H. Nghiem and T.C. Chu (2022), Evaluating lean facility layout designs using a BWM-based fuzzy ELECTRE I method, *Axioms* 11 (9), 1-20. (SCIE)
3. T.C. Chu and T.H.P. Le (2022), Evaluating and selecting agricultural insurance packages through an AHP-based fuzzy TOPSIS method, *Soft Computing* 26 (15), 7339-7354. (SCIE)
4. H.T. Nguyen and T.C. Chu (2021), Using a fuzzy multiple criteria decision-making method to evaluate personal diversity perception to work in a diverse workgroup, *Journal of Intelligent and Fuzzy Systems* 41 (1), 1407-1428. (SCIE)
5. T.B.H. Nghiem and T.C. Chu (2021), Evaluating sustainable conceptual designs using an AHP-based ELECTRE I method, *International Journal of Information Technology & Decision Making* 20 (4), 1121-1152. (SCIE)
6. T.C. Chu and M. Kysely (2021), Ranking objectives of advertisements on Facebook by a fuzzy TOPSIS method, *Electronic Commerce Research*, 21 (4), 881-916. (SSCI)
7. T.C. Chu and H.T. Le (2020), An extension to fuzzy ELECTRE, *Soft Computing* 24 (10), 7541-7555. (SCIE)
8. T.C. Chu and H.T. Nguyen (2019), Ranking alternatives with relative maximizing and minimizing sets in a fuzzy MCDM model, *International Journal of Fuzzy Systems* 21(4), 1170-1186. (SCIE)
9. T.C. Chu and W.C. Yeh (2019), Fuzzy multiple criteria decision-making via an inverse function-based total utility approach, *Soft Computing* 22(22), 7423-7433. (SCIE)
10. W.C. Yeh and T.C. Chu (2018), A novel multi-distribution multi-state flow network and its reliability optimization problem, *Reliability Engineering and System Safety*, 176, 209-217. (SCIE)
11. M. Wang, W.C. Yeh, T.C. Chu, X. Zhang, C.L. Huang and J. Yang (2018), Solving multi-objective fuzzy optimization in wireless smart sensor networks under uncertainty using a hybrid of IFR and SSO algorithm, *Energies*, 11 (9), 1-23. (SCIE)

Conference Papers

1. T.C. Chu (2023), Study on Center of Area and Its Application to Fuzzy TOPSIS, The 23rd Conference of the International Federation of Operational Research Societies, MB-27, pp.15, July 10-14, Santiago, Chile
2. H.T. Le and T.C. Chu (2022), Determine Criteria Weights for Financial Performance of Insurance Companies using Fuzzy Analytic Hierarchy Process, Proceedings of the 18th International Conference on Knowledge-Based Economy and Global Management, pp.293-298, Nov. 3-4, STUST, Tainan, Taiwan
3. H.T. Le and T.C. Chu (2022), Application of Fuzzy VIKOR to Select Business Innovation for Sustainability, Proceedings of the 18th International Conference on Knowledge-Based Economy and Global Management, pp.195-199, Nov. 3-4, STUST, Tainan, Taiwan
4. H.T. Nguyen and T.C. Chu (2021), Determining Criteria Weights for Startup Selection Using Analytical Network Process Method, Proceedings of the 17th International Conference on Knowledge-Based Economy and Global Management, pp.323-328, Nov. 25-26, STUST, Tainan, Taiwan
5. H.T. Le and T.C. Chu (2021), The Application of Fuzzy ELECTRE in Selecting the MOST Suitable Business Scenario for Sustainability, Proceedings of the 17th International Conference on Knowledge-Based Economy and Global Management, pp.329-334, Nov. 25-26, STUST, Tainan, Taiwan
6. T.B.H. Nghiem and T.C. Chu (2021), Using BWM to determine Criteria Weights for Evaluating demand Forecasting Methods in Sustainable Manufacturing, CIIE2021, Nov. 10, Tainan, Taiwan
7. H.T. Nguyen and T.C. Chu (2020), Examining Internal Organization Factors on Business Model Innovation Using a DEMATEL Method, Proceedings of the 16th International Conference on Knowledge-Based Economy and Global Management, pp.353-358, Nov. 5-6, STUST, Tainan, Taiwan
8. H.T. Le and T.C. Chu (2020), The Application of a Fuzzy ELECTRE Method to the Recruitment of Personnel Under Green Human Resource Management, Proceedings of the 16th International Conference on Knowledge-Based Economy and Global Management, pp.279-287, Nov. 5-6, STUST, Tainan, Taiwan
9. T.H.P. Le and T.C. Chu (2020), Evaluating Criteria Weights for Agricultural Risk Management Tools Using Fuzzy Analytical Hierarchy Process, Proceedings of the 16th International Conference on Knowledge-Based Economy and Global Management, pp.213-218, Nov. 5-6, STUST, Tainan, Taiwan
10. T.B.H. Nghiem and T.C. Chu (2020), Selecting Lean-Oriented Layout Design by a Fuzzy ELECTRE Method, Proceedings of the 16th International Conference on Knowledge-Based Economy and Global Management, pp.205-212, Nov. 5-6, STUST, Tainan, Taiwan
11. H.T. Nguyen and T.C. Chu (2019), Measuring Personal Perception in a Diversity Workgroup by a MCDM Method under Uncertain Environment, Proceedings of the 15th International Conference on Knowledge-Based Economy and Global Management, pp.477-481, Nov. 7-8, STUST, Tainan, Taiwan
12. T.B.H. Nghiem and T.C. Chu (2019), Selecting Sustainable Products by a ELECTRE Method, Proceedings of the 15th International Conference on Knowledge-Based Economy and Global Management, pp.469-475, Nov. 7-8, STUST, Tainan, Taiwan
13. T.H.P. Le and T.C. Chu (2019), Determining Criteria Weights of Agricultural Insurance Packages by Fuzzy AHP, Proceedings of the 15th International Conference on Knowledge-Based Economy and Global Management, pp.461-467, Nov. 7-8, STUST, Tainan, Taiwan
14. T.C. Chu and Y.T. Lin (2018), Evaluating Countries of New Southbound Policy for Investment by a ELECTRE Method, Proceedings of the 13th Conference on Theory and Practice of Business Internationalization, June 1, Tainan, Taiwan
15. T.C. Chu and W.C. Yeh (2018), Evaluating Weights for Supplier Selection Using an Analytic Hierarchy Process Method, Proceedings of the 2018 Conference of Industrial Management and Information Applications Innovation, pp. 38-44, Nov. 28, STUST, Tainan, Taiwan
16. T.C. Chu, Q.P. Tran and W.C. Yeh (2018), Application of a Fuzzy MCDM Method to the Selection of Low Cost Carriers, Proceedings of the 14th International Conference on Knowledge-Based Economy and Global Management, pp.447-456, Nov. 8-9, STUST, Tainan, Taiwan
17. T.C. Chu, H.D. Ma and W.C. Yeh (2018), Evaluating Performance of Banks Using a Fuzzy TOPSIS Method, Proceedings of the 14th International Conference on Knowledge-Based Economy and Global Management, pp.417-427, Nov. 8-9, STUST, Tainan, Taiwan

Dissertation

- * Some problems in Fuzzy Decision Making

Grants

1. National Science and Technology Council, No: MOST 111-2410-H-218-004, "Research on Establishing Hybrid Fuzzy MCDM Models to Evaluate and Select Startups for Corporate Accelerator and Business Model Innovations for Sustainability," 2022/8-2023/7
2. Ministry of Science and Technology, No: MOST 110-2410-H-218-009, "Research and Application of Interval Type-2 Fuzzy Numbers based Technique for Order Preference by Similarity to Ideal Solution Model," 2021/8-2022/7
3. Ministry of Science and Technology, No: MOST 108-2410-H-218-011, "Model Development and Application on Combining Analytical Hierarchy Process and Fuzzy Multiple Criteria Decision Making," 2019/8-2020/7
4. Ministry of Science and Technology, No: MOST 105-2410-H-218-002, "Using Inverse Function Based Maximizing Set and Minimizing Set to Solve Fuzzy ELECTRE Based Fuzzy TOPSIS Model," 2016/8 - 2017/7
5. Ministry of Science and Technology, No: MOST 103-2410-H-218-008-MY2, "Defuzzifying Fuzzy Numbers by a Relative Total Utility Value and Its Application," 2014/8 - 2016/7.

Entrusted Practical Projects

1. T.C. Chu, Sheh Ta Dies Co., Ltd., 2018/12-2019/7. #32001070452
2. T.C. Chu, Kai Hung Machinery Co., Ltd., 2018/6-2019/7, #32001070130-GP
3. T.C. Chu, AEON Motor Co., Ltd., 2013/12-2014/6, #311020452
4. T.C. Chu, Genie Co., Ltd. , 2013/10-2014/1, #311020110