

He received M.S and Ph.D degree from the department of Information Management, National Chiao Tung University, Taiwan, R.O.C. in 1992 and 1997. He is currently a Distinguished Professor of Graduate Institute of Business and Management with the Chang Gung University. He is also the fellow of Chang Gung Memorial Hospital at Linkou Taoyuan, Taiwan, R.O.C. His research interest includes Decision-Making, MODM/MCDM, Mathematical Programming, Renewable Energy, Networking, Supply Chain Management, and digital applications. Email: chingter@mail.cgu.edu.tw



Academic Background

Ph.D. National Chiao Tung University, Taiwan, ROC. Information Management, 1997

M.S. National Chiao Tung University, Taiwan, ROC. Information Management, 1992

B.B.A. National Chung Hsing University, Taiwan, ROC. Statistics, 1990

Work Experience

Associate Vice President for Academic Affairs, Chang Gung University (2014/08–2015/07), Taoyuan City, Taiwan, ROC.

Chair, Graduate Institute of Business and Management, Chang Gung University (2011/08–2014/07), Taoyuan City, Taiwan, ROC.

Research Fellow, Chang Gung Memorial Hospital at Linkou Taoyuan (2016–Now), Taiwan, ROC.

Distinguished Professor, Department of Information Management, Chang Gung University (2011/11–2014/12), Taoyuan City, Taiwan, ROC.

Professor, Department of Information Management, Chang Gung University (2004/08–2009/01), Taoyuan City, Taiwan, ROC.

Chief Librarian, National Changhua University of Education (2005/08–2009/01), Changhua, Taiwan, ROC.

Executive Vice President, (2004/8–2005/7), Chungyu University of Film and Arts, Taiwan, ROC.

Professor, Department of Information Management, National Changhua University of Education (2004/08–2009/01), Changhua City, Taiwan, ROC.

Associate Professor, Department of Information Management, National Changhua University of Education (2001/08–2004/07), Changhua City, Taiwan, ROC..

Assistant Professor, Department of Information Management, National Changhua University of Education (1998/08–2001/07), Changhua City, Taiwan, ROC.

Editorial Board

1. Area Editor, **Computers & Industrial Engineering** (SCI, JCR Q1)
2. Editor, **Applied Soft Computing** (SCI, JCR Q1)
3. Associated Editor, **IEEE Access** (SCI, JCR Q1)

4. Area Editor, NTU Management Review (臺大管理論叢) (TSSCI)
5. Editor, Mathematical Problems in Engineering (SCI)
6. Editor, The Scientific world journal (SCI)
7. Editor, Journal of the Brazilian Society of Mechanical Sciences and Engineering (SCI)

Others

1. 國立臺灣大學國企系兼任教授。
2. 亞洲大學經管系兼任講座教授。
3. 國科會管理學門複審委員。
4. 經濟部技術審查委員、複審委員。
5. 考試院特種考試出題與閱卷委員。
6. 行政院環保署設計師。
7. 公路總局副工程司兼課(科)長。
8. 國立勤益科大傑出校友、國立陽明交大管理學院傑出校友

Journal referee

Applied Mathematical Modelling, Renewable and Sustainable Energy Reviews, European Journal of Operational Research, IIE transactions, IEEE Transactions on Fuzzy Systems, IEEE Transactions on Systems, Man, and Cybernetics--Part C, Omega, Transportation Research Part A, Transportation Research Part E, International Journal of Production Economics, Fuzzy Sets and Systems, Discrete Applied Mathematics, Computers and Operations Research, Computers and Industrial Engineering, Optimization Methods and Software, Optimization Letters, Asia-Pacific of Operational Research, International Journal of Production Research, The Journal for Engineering Research, Surveying and Land Information System, International Journal of Business and Information, etc.

Research awards

1. Listed under both “**Career-long world’s top 2% scientists**” in 2020~2023 and “2020~2023 single year world’s top 2% scientists” (全球前 2% 顶尖科学家)
2. Distinguished research award, Chang Gung University, Taiwan (2011, 2015, 2020)
3. **Distinguished research award**, National Science Council, Taiwan (2008) (相当于大陆的杰出青年科学基金项目)
4. Outstanding research award, National Changhua University of Education, Taiwan (2004, 2006)
5. **Wu Ta-You memorial award**, National Science Council, Taiwan (2002) (相当于大陆的优秀青年科学基金项目)
6. Excellent research award, National Science Council, Taiwan (1998~2000)
7. Total number of projects in Ministry of Science and Technology: 26 times (相当于大陆的面上项目)

Journal Papers

1. Yan-Ting Chen, Ching-Ter Chang* (2025). Design and selection of recycling strategy considering

consumer preference. **Transportation Research Part E (Q1) (SCCI/IF:8.6)** 193, 103824.

2. Chia-Hui Shih, **Ching-Ter Chang*** (2024). Constructing renewable energy sphere for efficient search. **Journal of Cleaner Production (Q1) (SCI/IF: 9.7)** 471, 143412.
3. Ying-Ta Chen , Pei-Jung Wang , Chen-Kuang Cheng and **Ching-Ter Chang*** (2024). An appropriate combination of a thinning schedule and subsidies to realize sustainable Makino bamboo forest management. **Journal of Forest Research (Q3) (SSCI/IF:1.3)**
4. Himanshu Patel, **Ching-Ter Chang*** (2024). Beyond throughput: Evaluating maritime port competitiveness using MABAC and Bayesian methods. **Computers & Industrial Engineering (Q1) (SCI/IF:7.9)** 192, 110248.
5. Ming Li, **Ching-Ter Chang***, Zhi Liu* (2024). A discrete artificial bee colony algorithm and its application in flexible flow shop scheduling with assembly and machine deterioration effect. **Applied Soft Computing (Q1) (SCI/IF:8.7)** 12/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
6. Kuang-Ming Chang, Ting-Yu Chang, Cooper Cheng-Yuan Ku, **Ching-Ter Chang*** (2024). Sharing decision-making in knee osteoarthritis using the AHP-FMCGP method. **Expert systems with Applications (SCI/IF 8.5)** 123610. 6/86, OPERATIONS RESEARCH & MANAGEMENT SCIENCE
7. Zhi Liu, Mindong Wan, Xiaoguang Yang, Xiaoxue Zheng*, **Ching-Ter Chang*** (2024). Operational decisions and performance of an outsourcing remanufacturing supply chain under different financing methods. **Computers & Industrial Engineering (Q1) (SCI/IF:7.9)** 189, 109946 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
8. Feng-Lang Liu, Li-Chih Chien, Ting-Yu Chang, Cooper Cheng-Yuan Ku, **Ching-Ter Chang*** (2024). A hybrid approach to resolve ambiguity in new product development. **Journal of Intelligent and Fuzzy System (Q4) (SCI/IF:2.0)** 8, 1-16, 113/145, COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
9. Xiaoliang Xie, Xiaomin Jin, Guo Wei, **Ching-Ter Chang** (2023). Monitoring and early warning of SMEs' shutdown risk under the impact of global pandemic shock. **Systems (Q2) (SSCI/IF:1.8)** 11(5), 260.
10. Xiaojuan Li, Rixin Chen, Mingchao Lin, Weibin Chen, **Ching-Ter Chang*** (2023). On group evacuation behavior of subway station halls using an improved evolutionary game model. **Journal of Building Engineering (Q1) (SCI/IF:6.4)** 82, 108288, 13/139 ENGINEERING, CIVIL.
11. Xunfa Lu, Jingjing Sun, Guo Wei, **Ching-Ter Chang** (2023). Causal interactions and financial contagion among the BRICS stock markets under rare events: a liang causality analysis. **International Journal of Emerging Markets (Q2) (SSCI/IF:2.7)** 140/380, ECONOMICS
12. Ben-gang Gong, Rui Liu, Xiao-qi Zhang*, **Ching-Ter Chang***, Zhi Liu (2023). Sentiment analysis for electric vehicles online reviews using SMAA-2 method and interval type-2 fuzzy sets. **Applied Soft Computing (Q1) (SCI/IF:8.7)** 12/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
13. Xiao-juan Li, **Ching-Ter Chang***, Yue-Yue Zhu, Lu-Lu Li (2023). Key Influence Factors on the

Evacuation Route Selection for Fire Emergencies in the Urban Underground Complex. **Engineering Construction and Architectural Management** (Q2) (SCI/IF:4.1) 38/139, ENGINEERING CIVIL.

14. Xiao-Juan Li, Wei-Bin Chen, Ri-Xin Chen, **Ching-Ter Chang***, Shih-Hsiung Chen* (2023). Evacuation-path-selection model of real-time fire diffusion in urban underground complexes. **Computers & Industrial Engineering** (Q1) 177, 109014 (SCI/IF:7.9) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS.
15. Gang Hu*, Jingyu Zhong, Guo Wei, **Ching-Ter Chang** (2023). DTCSMO: An efficient hybrid starling murmuration optimizer for engineering applications. **Computer methods in applied mechanics and engineering** (Q1) 405, 115878 (SCI/IF:7.2) 7/90, ENGINEERING MULTIDISCIPLINARY.
16. Tai-Yueh Chen, Wei-Chen Chang*, Kuo-Jung Hsieh, **Ching-Ter Chang**** (2022). Advancing Taiwan's traditional craft products: A modular product design model of manufacturing technologies. **Technology in Society** (Q1) 71, 102103 (SSCI/IF:9.2) 1/110, SOCIAL SCIENCES, INTERDISCIPLINARY.
17. Lingyun Liu, **Ching-Ter Chang***, Hong Zhou, Binqing Xiao, Xin Zhang (2022). The relationship between physical financing and formal financing from the perspective of contractual arrangements. **Emerging Markets Finance and Trade** (Q1) 59, 656-675 (SSCI/IF:4.0) 11/96, INTERNATIONAL RELATIONS.
18. Xuexiang Duan, **Ching-Ter Chang*** (2022). Dynamic optimization for supply chain system considering seasonal demand and PQD. **Applied Mathematical Modelling** (Q1) 108, 308–325 (SCI/IF:5.0) 10/107, MATHEMATICS, INTERDISCIPLINARY APPLICATIONS
19. Xiaodong Cui, Xuexiang Duan, **Ching-Ter Chang***, Shuhua Jiang (2022). Health transition probability and long-term care cost estimation. **Mathematical Problems in Engineering** (Q3) 7980111 (SCI/IF:1.43) 79/108, MATHEMATICS, INTERDISCIPLINARY APPLICATIONS
20. Xiuzhi Sang, Xianyu Yu*, **Ching-Ter Chang***, Xinwang Liu. (2022) Electric bus charging station site selection based on the combined DEMATEL and PROMETHEE-PT framework. **Computers & Industrial Engineering** (Q1) 152, 1-17 (SCI/IF:7.9) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
21. Xiao-Xue Zheng, **Ching-Ter Chang***, Deng-Feng Li, Zhi Liu**, Benjamin Lev (2022). Designing an incentive scheme for producer responsibility organization of waste tires: A MCGP cooperative game approach. **Computers & Industrial Engineering** (Q1) 167, 108009 (SCI/IF:7.9) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
22. Xiong Wang, Fernando A. F. Ferreira, Min Tao, Ching-Ter Chang* (2022). A hybrid AHP-FCE-WMCGP approach for internal auditor selection: a generic framework. **International Journal of Fuzzy Systems** (Q2) (SCI/ IF:4.3) 20/65 AUTOMATION & CONTROL SYSTEMS
23. Xianyu Yu, Shengxian Ge, Dequn Zhou, Qunwei Wang, **Ching-Ter Chang***, Xiuzhi San*, Zhuojia Dong (2022). Whether feed-in tariff can be effectively replaced or not? An integrated analysis of renewable portfolio standards and green certificate trading. **Energy** (Q1) 245,123241 (SCI/IF:9.0) 3/62, THERMODYNAMICS

24. Nina Fatehi, Hadi Shahriar Shahhoseini, Jesse Wei, **Ching-Ter Chang*** (2022). An Automata Algorithm for Generating Trusted Graphs in Online Social Networks. **Applied Soft Computing** (Q1) 118, 108475 (SCI/IF:8.7) 12/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
25. Zhuojia Dong, Xianyu Yu, **Ching-Ter Chang***, Dequn Zhou, Xiuzhi Sang (2022/06). How does feed-in tariff and renewable portfolio standard evolve synergistically? An integrated approach of tripartite evolutionary game and system dynamics. **Renewable Energy** (Q1) 186, 864-877 (SCI/IF:8.7) 26/115, ENERGY & FUELS
26. Gang Hu*, Min Li, Xiaofeng Wang, Guo Wei, Ching-Ter Chang (2022). An enhanced manta ray foraging optimization algorithm for shape *optimization* of complex CCG-Ball curves. **Knowledge-Based Systems** (Q1) 240, 108071 (SCI/IF:8.8) 19/145, COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
27. Hui-Ping Ho, Yung-Chang Lin, Changjui James Fu, **Ching-Ter Chang*** (2022/02). On the personal diet considering qualitative and quantitative issues. **Computers & Industrial Engineering** (Q1) 164,107857 (SCI/IF:7.9) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
28. Xiaohong Liu* and **Ching-Ter Chang** (2021). Market Integration and regional innovation in China: evidence from the Yangtze River Delta Region. **Mathematical Problems in Engineering** (Q3) 7615495 (SCI/IF:1.43) 79/108, MATHEMATICS, INTERDISCIPLINARY APPLICATIONS
29. Xiong Wang, Fernando A. F. Ferreira, **Ching-Ter Chang*** (2021). Multi-objective competency-based approach to project scheduling and staff assignment: Case study of an internal audit project. **Socio-Economic Planning Sciences** (Q1) 101182 (SCCI/IF:6.1) 38/380, ECONOMICS
30. Chang-Yi Liu, Hui Wang, Juan Tang**, **Ching-Ter Chang***, Zhi Liu (2021). Optimal recovery model in an used batteries closed-loop supply chain considering uncertain residual capacity. **Transportation Research Part E** (Q1) 156, 102516 (SCCI/IF:10.6) 1/139, ENGINEERING, CIVIL
31. Xiaodong Cui and **Ching-Ter Chang*** (2021). How income influences health: decomposition based on absolute income and relative income effects. **International Journal of Environmental Research and Public Health** (Q2) 18(20), 10738 (SCCI/IF:4.614) 71/210, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH
32. Gang Hu, Xiaoni Zhu, Guo Wei, **Ching-Ter Chang** (2021). An improved marine predators algorithm for shape optimization of developable ball surface. **Engineering Applications of Artificial Intelligence** (Q1) 105, 104417 (SCI/ IF:8.0) 7/65, AUTOMATION & CONTROL SYSTEMS
33. Hui-Ping Ho, **Ching-Ter Chang***, Kim Hua Tan (2021). A hybrid fuzzy goal programming for smart phones and rate plan selection. **International Journal of Fuzzy Systems** (Q2) 1-19 (SCI/IF:4.3) 20/65 AUTOMATION & CONTROL SYSTEMS
34. **Ching-Ter Chang**, Wen-Jie Wu, Shih-Wei Lin*. (2021). Fuzzy Multi-choice Goal Programming and Artificial Bee Colony Algorithm for Triangular and Trapezoidal Membership Functions. **IEEE Access** (Q2) 95267 - 95281 (SCI/IF:3.9) 100/275, ENGINEERING, ELECTRICAL & ELECTRONIC
35. **Ching-Ter Chang**, Chun-Che Huang*, Chun-Che Huang. (2021). Preface: Data-driven Decision Making - Theory, Methods, and Applications. **Applied Soft Computing** (Q1) 107261. (SCI/IF:8.7) 12/110,

COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS

36. Xiaodong Cui, **Ching-Ter Chang***. (2021/04). Matching and coordination among elderly services, aging and economic in China. **Mathematical Problems in Engineering** (Q3) 15635147. ([SCI/IF:1.43](#)) 79/108, MATHEMATICS, INTERDISCIPLINARY APPLICATIONS
37. Kai Dong, **Ching-Ter Chang***, Shaonan Wang, Xiaoxi Liu. (2021/03). The dynamic correlation among financial leverage, house price, and consumer expenditure in China. **Sustainability** (Q2) 13,1-18 ([SSCI/IF:3.9](#)) 48/127, ENVIRONMENTAL STUDIES
38. Xiaohong Liu, Tong Zhao, **Ching-Ter Chang***, Changjui James Fu (2021). China's renewable energy strategy and industrial adjustment policy. **Renewable Energy** (Q1) 170, 1382-1395 ([SCI/IF:8.7](#)) 26/115, ENERGY & FUELS
39. Xiong Wang#, Tong Zhao#, **Ching-Ter Chang*** (2021). An integrated FAHP-MCGP approach to project selection and resource allocation in risk-based internal audit planning: a case study. **Computers & Industrial Engineering** (Q1) ([SCI/IF:7.9](#)) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
40. Xiao-Xue Zheng, **Ching-Ter Chang*** (2021). Topology design of remote patient monitoring system concerning qualitative and quantitative issues. **Omega** (Q1) 98, 102137, 1-16 ([SCI/SSCI/IF:6.9](#)) 11/86, OPERATIONS RESEARCH & MANAGEMENT SCIENCE
41. Xue-mei Zhang, Qian-wen Li, Zhi Liu**, **Ching-Ter Chang*** (2020). Optimal pricing and remanufacturing mode in a closed-loop supply chain of WEEE under government fund policy. **Computers & Industrial Engineering** (Q1) 152, 1-17 ([SCI/IF:7.9](#)) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
42. [Shu Hsu Lin](#), [Hsing-Chen Lee](#), **Ching-Ter Chang*** (2020), [Changjui James Fu](#). Behavioral Intention Towards Mobile Learning in Taiwan, China, Indonesia, and Vietnam. **Technology in Society** (Q1) 63, 1-13 ([SSCI/IF:9.2](#)) 1/110, SOCIAL SCIENCES, INTERDISCIPLINARY
43. Xianyu Yu, Zhuojia Dong, Dequn Zhou, **Ching-Ter Chang***, Xinhuan Huang** (2020). Integration of tradable green certificates trading and carbon emissions trading: How will Chinese power industry do?, **Journal of Cleaner Production** (Q1) 279, 1-12 ([SCI/IF:11.1](#)) 24/274, ENVIRONMENTAL SCIENCES
44. Feng-Lang Liou, **Ching-Ter Chang*** (2020), An integrated MCGP-U and Fuzzy-AHP method for enhancing the competitiveness of Taiwan's forklift industry. **Journal of Intelligent and Fuzzy System** (Q4) 8, 1-16 ([SCI/IF:2.0](#)) 113/145, COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
45. Xiaodong Cui, **Ching-Ter Chang*** (2020), How life expectancy affects welfare in a Diamond-type overlapping generations model. **Physica A-Statistical mechanics and its applications** (Q2) 555, 1-11 ([SCI/IF:3.3](#)) 31/85, PHYSICS, MULTIDISCIPLINARY
46. Xiaodong Cui, **Ching-Ter Chang*** (2020), Distribution dynamics, regional differences and convergence of elderly health levels in China. **Sustainability** (Q2) 20 (6):2288 ([SSCI/IF:3.9](#)) 48/127, ENVIRONMENTAL STUDIES
47. Chia-Rong Su, Jeyhun Hajiyeve, Changjui James Fu, Kuo-Chin Kao, Chih-Hao Chang, **Ching-Ter**

- Chang*** (2019). A novel framework for remote patient monitoring (RPM) system with abnormality detection. **Health Policy and Technology** (Q1) 8, 157-170 (SSCI/IF:6.0) 4/87, HEALTH POLICY & SERVICES
48. Fei Ye, Lixu Li, Yina Li, **Ching-Ter Chang** (2019). How will the Chinese Certified Emission Reduction scheme save cost for the national carbon trading system? **Journal of Environmental Management** (Q1) 244, 99-109 (SCI/IF:8.7) 31/274, ENVIRONMENTAL SCIENCES
 49. **Ching-Ter Chang**, Chang-Shu Tu, Jeyhun Hajiyeve* (2019). Integrating academic type of social media activity with academic performance: A role of task-related and non-task related compulsive Internet use. **Computers & Education** (Q1) 139, 157-172 (SSCI/SCI/IF:12) 1/269, EDUCATION & EDUCATIONAL RESEARCH
 50. Wen-Xuan Zhao, Hui-Ping Ho, **Ching-Ter Chang*** (2019). The roles of aspirations, coefficients and utility functions in multiple objective decision making. **Computers & Industrial Engineering** (Q1) (SCI/IF:7.9) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
 51. Fei Ye, Xianlu Fang, Lixu Li, Yina Li Ching, **Ching-Ter Chang** (2019). Allocation of carbon dioxide emission quotas based on the energy-economy-environment perspective: Evidence from Guangdong Province. **Science of the Total Environment** (Q1) 669, 657-667 (SCI/IF:9.8) 26/274, ENVIRONMENTAL SCIENCES
 52. **Ching-Ter Chang**, Wen-Xuan Zhao, Jeyhun Hajiyeve* (2019). An integrated smartphone and tariff plan selection for taxi service operators: MCDM and RStudio approach. **IEEE Access** (Q2) 7, 31457-31472. (SCI/IF:3.9) 100/275, ENGINEERING, ELECTRICAL & ELECTRONIC
 53. Cheng-Kung Chung, Hsin Min Chen, **Ching-Ter Chang***, Hau-Lieng Huang (2018). On fuzzy multiple objective linear programming problems. **Expert Systems with Applications** (Q1) 114, 552-562 (SCI/IF:8.5) 23/275, ENGINEERING, ELECTRICAL & ELECTRONIC
 54. Hsing-Chen Lee, **Ching-Ter Chang*** (2018). Comparative analysis of MCDM methods for ranking renewable energy sources in Taiwan. **Renewable & Sustainable Energy Reviews** (Q1) 92, 883-896 (SCI/IF:15.9) 2/46, GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
 55. Ching-Ter Chang (2018). A technique of the salient success and survival aspiration levels for multiple objective/criteria decision-making problems. **Journal of the Operational Research Society** (Q2), 1, 1-10 (SSCI/SCI/IF:3.6) 30/86, OPERATIONS RESEARCH & MANAGEMENT SCIENCE
 56. Fan-Chen Tseng, **Ching-Ter Chang**, Hsing-Chen Lee, Ching-I Teng* (2018). How does gender swapping impact online gamer loyalty? The perspective from the interdependence theory. **Online Information Review** (Q2) 42 (5), 647-662 (SSCI/IF:3.1) 40/84, INFORMATION SCIENCE & LIBRARY SCIENCE
 57. Chang-Shu Tu, Chih-Hao Chang, Shu-Chin Chang, Chung-shu Lee, **Ching-Ter Chang*** (2018). A decision for predicting successful extubation of patients in intensive care unit. **BioMed Research International** (Q3) 2018, 1-11 (SCI/IF:3.246) 90/158, BIOTECHNOLOGY & APPLIED MICROBIOLOGY

58. Ching-Ter Chang (2018). An efficient approach for the S-shaped penalty function. **International Transactions in Operational Research** (Q2) 1, 1-19 ([SSCI/SCI/IF:3.1](#)) 40/84, OPERATIONS RESEARCH & MANAGEMENT SCIENCE
59. **Ching-Ter Chang** (2017). Fuzzy linearization strategy for multiple objective linear fractional programming with binary utility functions. **Computers & Industrial Engineering** (Q1) ([SCI/IF:7.9](#)) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
60. Chang, Shu-Chin and, **Ching-Ter Chang *** (2017). A multi-stage and multi-supplier inventory model allowing different order quantities. **Applied Mathematical Modelling** (Q1) 52, 613-625 ([SCI/IF:5.0](#)) 10/107, MATHEMATICS, INTERDISCIPLINARY APPLICATIONS
61. **Ching-Ter Chang** (2017). An effective zero-inventory-ordering policy for a single-warehouse multiple retailer problem with a modified all-unit discount. **Computers & Industrial Engineering** (Q1) ([SCI/IF:7.9](#)) 17/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
62. Chen, Kee Kuo, Chiu, Rong-Her, **Ching-Ter Chang*** (2017). Using beta regression to explore the relationship between service attributes and likelihood of customer retention for the container shipping industry. **Transportation Research Part E** (Q1) 104, 1-16. ([SCCI/IF:10.6](#)) 1/139, ENGINEERING, CIVIL
63. **Ching-Ter Chang**, Hajiyev Jeyhun*, Su, Chia-Rong (2017). Examining the students' behavioral intention to use e-learning in Azerbaijan. The General Extended Technology Acceptance Model for E-learning approach. **Computers & Education** (Q1) 111, 128-143 ([SSCI/SCI/IF:12](#)) 1/269, EDUCATION & EDUCATIONAL RESEARCH
64. Hajiyev Jeyhun*, **Ching-Ter Chang** (2017). Gen Y members' mobile banking adoption intention and actual use in Azerbaijan and Turkey: The technology acceptance model and social theory approach. **Journal of Internet Banking and Commerce** 22:s7.
65. **Ching-Ter Chang**(2017). Fuzzy score technique for the optimal location of wind turbines installations. **Applied Mathematical Modelling** (Q1) 44, 576-587 ([SCI/IF:5.0](#)) 10/107, MATHEMATICS, INTERDISCIPLINARY APPLICATIONS
66. Zheng, Chinlong, **Ching-Ter Chang**, Chen Ying-Ta* (2017). Combining 3-level multi-choice goal programming with multi-coefficient goal programming to evaluate the forest ecosystem service potential improved by thinning. **Forest Science** (Q3) 63, 310-318 ([SCI/IF:1.4](#)) 46/69, FORESTRY
67. **Ching-Ter Chang***, Lee, Hsing-Chen (2016). Taiwan's renewable energy strategy and energy-intensive industrial policy. **Renewable & Sustainable Energy Reviews** (Q1) 64, 456-465 ([SCI/IF:15.9](#)) 2/46, GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
68. Tu, Chang-Shu, **Ching-Ter Chang*** (2016). Using binary fuzzy goal programming and linear programming to resolve airport logistic center expansion plan problems. **Applied Soft Computing** (Q1) 44, 222-237 ([SCI/IF:8.7](#)) 12/110, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS

69. Chen Chih-Yung, Su Chia-Rong*, Tu Jih-Fu, Chang-Ching Lin, **Ching-Ter Chang** (2016). Using fuzzy goal programming by considering personal preferences for job selection via the Internet. **Engineering Computations** (Q3) 33, 1865-1880 (SCI/IF:1.6) 61/90, ENGINEERING, MULTIDISCIPLINARY
70. Wei Chen Chang*, **Ching-Ter Chang**, Yu Cheng Pei, Yi Tyng Lin (2016). Discussion the super-solitary elder cultural phenomenon by design anthropology. **International Journal of Social Relevance & Concern**, 4(10), 20-27.
71. Chen, Kee-Kuo, Ho, Hui-Ping, **Ching-Ter Chang*** (2015). Estimating attributes importance for container shipping industry by closing the listening gap with maximum convergent validity, **Transportation Research Part E** (Q1) 79, 145-163 (SCCI/IF:10.6) 1/139, ENGINEERING, CIVIL
72. Tam, Kim Hua*, Zhan, YuanZhu., Ji, Guojun., Ye, Fei., **Ching-Ter Chang** (2015). Harvesting big data to enhance supply chain innovation capabilities: An analytic infrastructure based on deduction graph. **International Journal of Production Economics** (Q1) 165, 223-233 (SCI/IF:12) 4/50, ENGINEERING, MANUFACTURING
73. **Ching-Ter Chang** (2015). Multi-choice goal programming for the optimal location of renewable energy facilities. **Renewable & Sustainable Energy Reviews** (Q1) 41, 379-389 (SCI/IF: 15.9) 2/46, GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
74. Ho, Hui-Ping, **Ching-Ter Chang***, Ku, Cheng-Yuan. (2015). House selection via the Internet by considering homebuyers' risk attitudes with S-shaped utility functions. **European Journal of Operational Research** (Q1) 241, 188-201 (SCI/IF:6.4, ABS 4*) 13/86, OPERATIONS RESEARCH & MANAGEMENT SCIENCE
75. **Ching-Ter Chang**, Chou, Yan-Yu and Zhuang, Zheng-Yun* (2015). A practical expected-value-approach model to assess the relevant procurement costs. **Journal of the Operational Research Society** (Q2) 66, 539-553 (SSCI/SCI/IF:3.6) 30/86, OPERATIONS RESEARCH & MANAGEMENT SCIENCE
76. Lin, Teng-Chiao, Ho, Hui-Ping*, **Ching-Ter Chang**(2014). Evaluation model for applying an e-learning system in a course: an analytic hierarchy process - multi-choice goal programming approach. **Journal of Educational Computing Research** (Q1) 50, 135-157 (SSCI/IF:4.8) 30/269, EDUCATION & EDUCATIONAL RESEARCH
77. Chen, Ying-Ta, **Ching-Ter Chang*** (2014). Multi-coefficient goal programming in thinning schedules to increase carbon sequestration and improve forest structure. **Annals of Forest Science** (Q1) 71, 907-915 (SCI/IF:3.0) 14/69, FORESTRY
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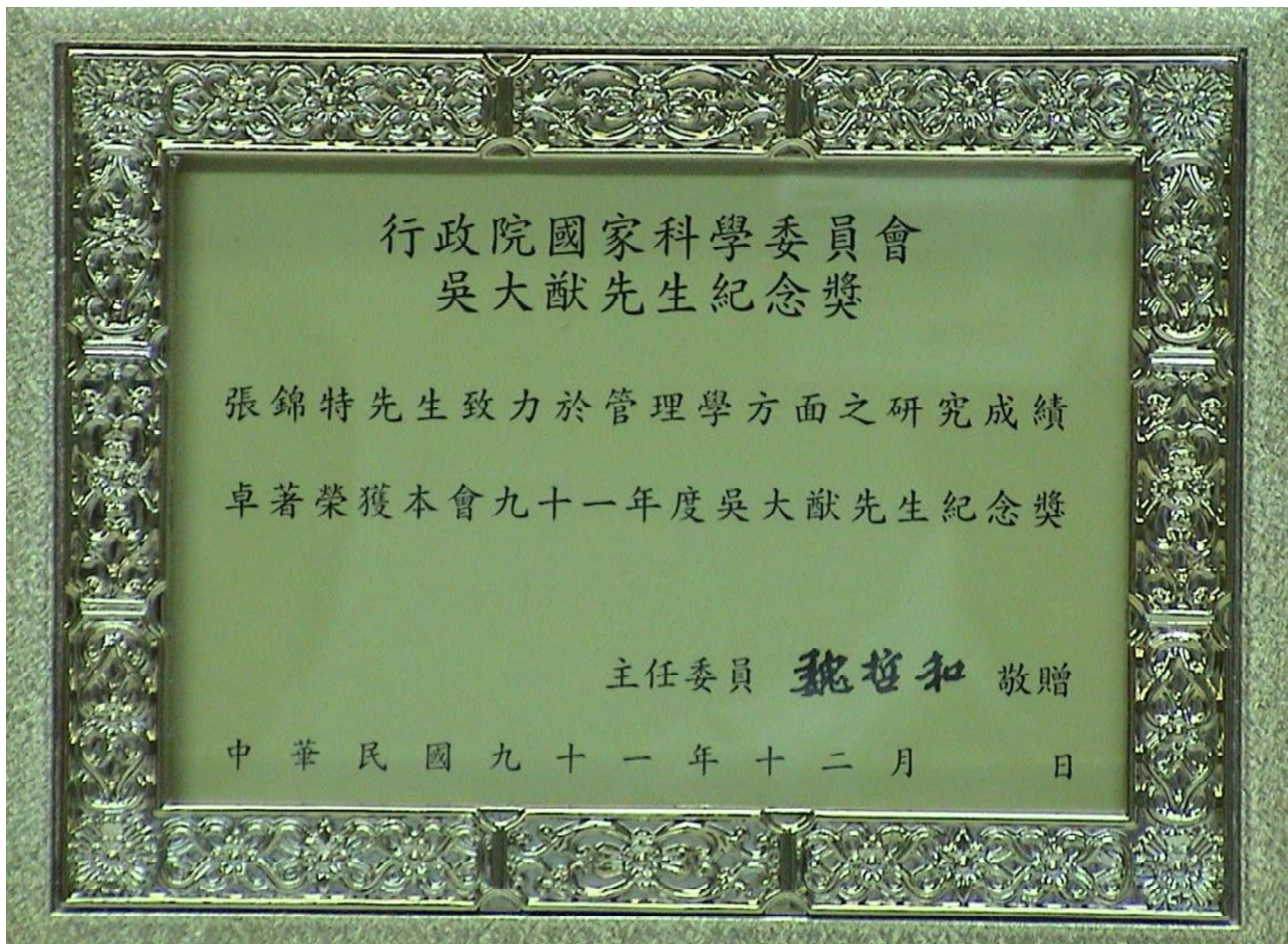
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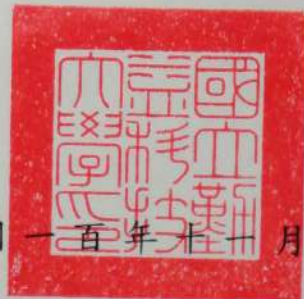
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