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## RESEARCH INTERESTS

- Decision analysis (group decision making, multi-criteria decision making, and data-driven decision analysis)
- Granular computing and data-driven prediction analysis
- Recommender Systems and graph data mining

## ACADEMIC WEBSITES

- **WOS ResearcherID:** <https://webofscience.clarivate.cn/wos/author/record/B-5333-2011>
- **Google Scholar:** <https://scholar.google.com/citations?user=vBSJplMAAAAJ>
- **ORCID:** <https://orcid.org/0000-0002-6512-1458>
- **ResearchGate:** [https://www.researchgate.net/profile/Zhen\\_Zhang64](https://www.researchgate.net/profile/Zhen_Zhang64)
- **Scopus ID:** <https://www.scopus.com/authid/detail.uri?authorId=56900083800>

## EDUCATION

- **Visiting doctoral Student**, Centre for Quantum Computation & Intelligent Systems, University of Technology, Sydney, Australia, Oct. 2012 - Nov. 2013. **Supervisors:** Prof. Jie Lu (IEEE/IFSA Fellow) & Guangquan Zhang.

- **Ph. D** in Management Science & Engineering, Institute of Systems Engineering, Dalian University of Technology, Dalian, China, Sep. 2008 - Oct. 2014. Supervisor: Prof. Chonghui Guo.
- **B.S. in Engineering Management**, School of Economics and Management, China University of Petroleum, Qingdao, China, Sept. 2004 - Jul. 2008.

### ACADEMIC EXPERIENCE

- **Professor**, Institute of Systems Engineering, School of Economics and Management, Dalian University of Technology, Dalian, China, since Dec. 2023.
- **Deputy Director**, Institute of Systems Engineering, School of Economics and Management, Dalian University of Technology, Dalian, China, since Dec. 2019.
- **Associate Professor**, Institute of Systems Engineering, School of Economics and Management, Dalian University of Technology, Dalian, China, Dec. 2018 - Dec. 2023.
- **Visiting Scholar**, Department of Computer Science, University of Jaén, Spain, Nov. 2016 - Dec. 2016. **Supervisor: Luis Martínez**.
- **Postdoctoral Fellow in Business Administration**, Faculty of Management and Economics, Dalian University of Technology, Dalian, China, since Jan. 2015.
- **Assistant Professor**, Institute of Systems Engineering, Faculty of Management and Economics, Dalian University of Technology, Dalian, China, Nov. 2014 - Dec. 2018.

### SELECTED HONORS AND AWARDS

- **2025 Best Paper Award of Omega Journal**, 2025
- **Springer Nature Editor of Distinction Award Author Service Award**, Springer Nature, 2025
- **Xingliao Talent Program - Young Talents for Cultural Luminaries and the “Four Batches” Program**, 2024
- **Outstanding Reviewer**, Journal of Systems Science & Complexity, 2024
- **Outstanding Reviewer**, Journal of the Operational Research Society, 2022, 2023
- **World’s Top 2% Scientists**, Stanford University, 2020 - 2025

- **Outstanding Reviewer**, Journal of Industrial Engineering and Engineering Management, 2021, 2022, 2023
- **Xinghai Outstanding Young Talents**, Dalian University of Technology, 2020.
- **Publons Global Peer Review Awards**, top 1% of reviewers in Computer Science and Cross-Field, 2019
- **Outstanding Reviewers**, Systems Engineering — Theory & Practice, 2019
- **Science and Technology Star for Young Scholars of Dalian City**, 2018
- **The Third Prize of Excellent Natural Science Academic Papers of Liaoning Province**, 2016, 2018, 2019.
- **The Third Prize of Excellent Natural Science Academic Papers of Dalian City**, 2016, 2017.
- **The First Prize of Excellent Natural Science Academic Papers of Dalian City**, 2015.

## RESEARCH PROJECTS

- [1] **PI**, Research on Consensual Sorting Models and Methods for Multi-Criteria Group Decision Making by Considering Personalized Individual Semantics, granted by **National Natural Science Foundation of China** (72371049), CNY390K, 2024.1 - 2027.12.
- [2] **PI**, Consensus-Oriented Models and Methods for Multi-Criteria Sorting Problems in Group Decision Making with Heterogeneous Information, granted by **National Natural Science Foundation of China** (71971039), CNY480K, 2020.1 - 2023.12.
- [3] **PI**, Research on Two-sided Matching Decision Making Methods with Incomplete Information, granted by **National Natural Science Foundation of China** (71501023), CNY182.8K, 2016.1 - 2018.12.
- [4] **PI**, Data-Driven Preference Learning Methods for Multi-Criteria Sorting with Non-Monotonic Preferences, granted by **Natural Science Foundation of Liaoning Province** (2024-MSBA-26), CNY80K, 2024.09 - 2026.08.
- [5] **PI**, Approaches to Two-sided Matching Decision Making with Incomplete Preference Information, granted by the **China Postdoctoral Science Foundation** (2015M570248), CNY80K, 2015.6 - 2017.6.

- [6] **PI**, Consensus-Driven Models and Algorithms for Group Recommender Systems under Big Data environment, granted by **Dalian Science and Technology Bureau** (2018RQ69), CNY100K, 2019.1 - 2020.12.
- [7] **PI**, Consensus-Based Models for Linguistic Group Decision Making and Multi-Criteria Sorting, **the Funds for Xinghai Outstanding Young Talents** (X20190322), CNY400K, 2020.1 - 2023.12.
- [8] **PI**, Data-Driven Multi-Criteria Sorting Methods Considering Non-Monotonic Preferences of Decision Makers, **the Fundamental Research Funds for the Central Universities of China** (DUT23RW406), CNY50K, 2023.01 - 2024.12.
- [9] **PI**, Models and Methods for Linguistic Large-Scale Group Decision Making based on Social Network Trust, **the Fundamental Research Funds for the Central Universities of China** (DUT17RC(4)11), CNY50K, 2017.7 - 2018.12.
- [10] **PI**, Matching Decision Making Methods with Heterogeneous Criteria Sets for Matching Objects, **the Fundamental Research Funds for the Central Universities of China** (DUT15RC(3)003), CNY50K, 2015.1 - 2016.12.
- [11] **PI**, Group Decision Making with Uncertain Information, a Foundation for the Doctoral Student Academic Star of Dalian University of Technology, CNY10K, 2012.11 - 2013.10.
- [12] **Co-PI**, Research on Methods and Applications for Social Network Group Decision Making With Self-Confident Preferences Considering Personalized Individual Semantics, **the Funds for Humanities and Social Sciences of Ministry of Education of China** (23YJC630219), CNY80K, 2023.10 - 2026.7.
- [13] **Participant**, Electronic Medical Record Mining-based ICU Clinical Prediction Models in Smart Healthcare Scenarios, **the Applied Basic Research Program of Liaoning Natural Science Foundation, China** (2023JH2/101300208), CNY300K, 2023.1 - 2024.12.
- [14] **Participant**, Big-Data Driven Intelligent Decision Making Methods and Support Techniques for Smart City Construction in Dalian, a major program granted by Dalian Science and Technology Bureau (2018J11CY009), CNY3M, 2018.1 - 2020.12.
- [15] **Participant**, Clustering Models and Algorithms for Mining Electronic Medical Records, granted by **National Natural Science Foundation of China** (No. 71771034), CNY560K, 2018.1 - 2021.12.

- [16] **Participant**, Evolutionary Clustering Models and Algorithms for Dynamic Data Mining, granted by **National Natural Science Foundation of China** (No. 71171030), CNY450K, 2012.1 - 2015.12.
- [17] **Participant**, Information and Logistics Management in Emerging E-commerce, **the Funds for Creative Research Groups of China** (No. 71421001), CNY8.4M, 2015.1 - 2020.12.
- [18] **Participant**, Data Mining and Knowledge Discovery Based on Optimization and Multivariate Statistical Analysis: Methods and Applications, **the Program for New Century Excellent Talents in University** (NECT-11-0050), CNY300K, 2012.1 - 2014.12.
- [19] **Participant**, Clustering Models and Algorithms for Time Series Data Mining, granted by **National Natural Science Foundation of China** (No. 70871015), CNY230K, 2009.1 - 2011.12.
- [20] **Participant**, Theory and Methods of Product Life Cycle-Oriented Knowledge Coordination Management, granted by the **Key program of National Natural Science Foundation of China** (No. 71031002), CNY1.5M, 2011.1 - 2014.12.
- [21] **Participant**, Feature Representation and Similarity Measures for Time Series, **the Fundamental Research Funds for the Central Universities of China** (DUT11SX04), CNY100K, 2011.1 - 2012.12.
- [22] **Participant**, Path Selection and Policy Design for Regional Creativity Industry Development, **the National Soft Science Research Program** (2013GXS2D018), CNY150K, 2014.1 - 2014.12.
- [23] **Participant**, Enterprise Knowledge Management Methods and Enterprise Ontology, **the National High Technology Research and Development Program** (2008AA04Z107), CNY710K, 2008.10 - 2010.12.

## **PUBLICATIONS & Edited Special Issues**

### **Monographs [Total: 1]**

- [1] **Zhen Zhang**, Wenyu Yu, Zhuolin Li. Modeling Complex Linguistic Information to Support Group Decision Making Under Uncertainty, Springer Nature, Singapore, 2024, ISBN: 978-981-97-3583-9.

### **Book Chapters [Total: 1]**

- [1] **Zhen Zhang**, Chonghui Guo. Association rules evaluation by a hybrid multiple criteria decision method, in: G. Yang (Ed.), *Multidisciplinary Studies in Knowledge and Systems Science*, IGI Global, Hershey PA, 2013, pp. 167-178. (Selected paper from the International Journal of Knowledge and Systems Science)

**Journal Articles [Total: 65, SCI: 53, SSCI: 17, ESI highly cited: 22, ESI hot: 6]**

- [1] **Zhen Zhang**, Ziyu Xu, Wenyu Yu\*. Tourism demand forecasting with multi-source data: A hybrid model incorporating seasonal-trend decomposition, *Annals of Operations Research (ANOR)*, 2026, in press, doi: 10.1007/s10479-025-06832-0. (SCI, **2023 IF=4.5**, ABS 3)
- [2] Qian Liang, Zhongquan Hu, **Zhen Zhang**\*, Haomin Wang. A multi-criteria preference learning method considering context-dependent decision behavior, *Chinese Journal of Management Science*, 2026, in press, doi: 10.16381/j.cnki.issn1003-207x.2024.1896. (CSSCI, FMS-T1, in Chinese)
- [3] Yuan Jin, **Zhen Zhang**\*. KRAM: Knowledge-driven robust training against label noise for medication recommendation, *Expert Systems with Applications*, 2026, 310, 131330, doi: 10.1016/j.eswa.2026.131330. (SCI, EI, **2024 IF=7.5**)
- [4] **Zhen Zhang**, Jize Luo, Wenyu Yu\*, Zhuolin Li, Francisco Chiclana. Integrating personalized individual semantics and consistency control to support consensus reaching in 2-rank group decision making, *IEEE Transactions on Systems, Man, and Cybernetics: Systems (TSMCS)*, 2026, 56(2), 800-811, doi: 10.1109/TSMC.2025.3597963. (SCI, EI, **2024 IF=8.7, ABS 3**)
- [5] Yuan Gao, **Zhen Zhang**\*, Wenyu Yu\*. Preference learning for multi-criteria sorting with interacting criteria: A framework integrating threshold-based value-driven sorting procedure with attention network, *Information Fusion (INFFUS)*, 2026, 125, 103443, doi: 10.1016/j.inffus.2025.103443. (SCI, EI, **2024 IF=15.5**)
- [6] Gaofeng Yu, **Zhen Zhang**, Jian Wu. A stability analysis for the online retailing cyber security situation piecewise variable weight rating method, *Applied Intelligence*, 2025, 55(18), 1144, doi: 10.1007/s10489-025-06860-0. (SCI, EI, **2024 IF=3.5**)
- [7] Yaya Liu, Yue Wang, Rosa M. Rodríguez, **Zhen Zhang**\*, Luis Martínez. Automatic consensus models to balance consensus cost, consistency level and consensus degree with attitudinal trust mechanism, *Information Sciences (INS)*, 2025, 716, 122222, doi: 10.1016/j.ins.2025.122222. (SCI, EI, **2024 IF=6.8**)

- [8] Mingshuo Cao, Tiantian Gai, Jian Wu\*, Francisco Chiclana, **Zhen Zhang**, Yucheng Dong, Enrique Herrera-Viedma, Francisco Herrera. Social network group decision making: Characterization, taxonomy, challenges and future directions from an AI and LLMs perspective, *Information Fusion (INFFUS)*, 2025, 120, 103107, doi: 10.1016/j.inffus.2025.103107. (SCI, EI, **2024 IF=15.5, ESI highly cited paper**)
- [9] Zihang Jia, **Zhen Zhang\***, Witold Pedrycz. Generation of granular-balls for clustering based on the principle of justifiable granularity, *IEEE Transactions on Cybernetics (TCYB)*, 2025, 55(4), pp. 1687-1700, doi: 10.1109/TCYB.2025.3534195. (SCI, EI, **2024 IF=10.5, ABS 3**)
- [10] Zhuolin Li, **Zhen Zhang\***, Witold Pedrycz. An incremental preference elicitation-based approach to learning potentially non-monotonic preferences in multi-criteria sorting, *European Journal of Operational Research (EJOR)*, 2025, 323(2), pp. 553-570, doi: 10.1016/j.ejor.2024.11.047. (SCI, EI, **2024 IF=6.0, ABS 4**)
- [11] Qian Liang, **Zhen Zhang\***, Yingsheng Su. Constructive preference elicitation for multi-criteria decision analysis using an estimate-then-select strategy, *Information Fusion (INFFUS)*, 2025, 118, 102926. doi: 10.1016/j.inffus.2024.102926. (SCI, EI, **2024 IF=15.5**)
- [12] Zhuolin Li, **Zhen Zhang\***. Modeling personalized individual semantics in multicriteria decision making with incomplete linguistic preference relations: A preference disaggregation perspective, *IEEE Transactions on Systems, Man, and Cybernetics: Systems (TSMCS)*, 2025, 55(1), pp. 390-403, doi: 10.1109/TSMC.2024.3472699. (SCI, EI, **2024 IF=8.7, ABS 3**)
- [13] **Zhen Zhang**, Zhuolin Li\*, Wenyu Yu\*. Lexicographic optimization-based approaches to learning a representative model for multi-criteria sorting with non-monotonic criteria, *Computers & Operations Research (COR)*, 2025, 175, 106917, doi: 10.1016/j.cor.2024.106917. (SCI, EI, **2024 IF=4.3, ABS 3**)
- [14] Zhuolin Li, **Zhen Zhang\***, Witold Pedrycz. Integrating machine learning models to learn potentially non-monotonic preferences for multi-criteria sorting from large-scale assignment examples, *Omega*, 2025, 131, 103196, doi: 10.1016/j.omega.2024.103219. (SCI, EI, **2024 IF=7.2, ABS 3, 2025 Best Paper Award of Omega**)
- [15] Shanglei Chai, Wenjun Chu, **Zhen Zhang**, Zhilong Li, Mohammad Zoynul Abedin\*. Dynamic nonlinear connectedness between the green bonds, clean energy, and stock price: The impact of the COVID-19 pandemic, *Annals of Operations Research (ANOR)*, 2025, in press, doi:

10.1007/s10479-021-04452-y. (SCI, 2024 IF=4.5, ABS 3, ESI highly cited paper)

- [16] Shanglei Chai, Zixuan Zhang, **Zhen Zhang**\*. Carbon price prediction for China's ETS pilots using variational mode decomposition and optimized extreme learning machine, *Annals of Operations Research (ANOR)*, 2025, 345(2-3), pp. 809-830, doi: 10.1007/s10479-021-04392-7. (SCI, 2024 IF=4.5, ABS 3)
- [17] Qian Liang, Chenyu Luo, **Zhen Zhang**, Dong Cheng\*. Mining ordinal-cardinal consensus for large-scale group decision making with incomplete fuzzy preference relations, *IEEE Transactions on Fuzzy Systems (TFS)*, 2024, 32(6): 3542-3555, doi: 10.1109/TFUZZ.2024.3375863. (SCI, EI, 2024 IF=11.9)
- [18] Tiantian Gai, Jian Wu\*, Changyong Liang, Mingshuo Cao, **Zhen Zhang**. A quality function deployment model by social network and group decision making: application to product design of e-commerce platforms, *Engineering Applications of Artificial Intelligence (EAAI)*, 2024, 133, 108509, doi: 10.1016/j.engappai.2024.108509. (SCI, EI, 2024 IF=8.0)
- [19] Zhuolin Li, **Zhen Zhang**, Wenyu Yu\*. Consensus reaching for ordinal classification-based group decision making with heterogeneous preference information, *Journal of the Operational Research Society (JORS)*, 2024, 75(2), pp. 224-245, doi: 10.1080/01605682.2023.2186806. (SCI, SSCI, EI, 2024 IF=2.7, ABS 3, ESI highly cited paper)
- [20] Zhuolin Li, **Zhen Zhang**\*. Threshold-based value-driven method to support consensus reaching in multicriteria group sorting problems: A minimum adjustment perspective, *IEEE Transactions on Computational Social Systems (TCSS)*, 2024, 11(1), pp. 1230-1243, doi: 10.1109/TCSS.2023.3251351. (SCI, EI, 2024 IF=4.9, ESI highly cited paper)
- [21] Jian Wu, Guangyin Zhang, Yumei Xing, Yujia Liu\*, **Zhen Zhang**, Yucheng Dong, Enrique Herrera-Viedma. A sentiment analysis driven method based on public and personal preferences with correlated attributes to select online doctors, *Applied Intelligence (APIN)*, 2023, 53(16), pp. 19093-19114, doi: 10.1007/s10489-023-04485-9. (SCI, EI, 2023 IF=3.4)
- [22] **Zhen Zhang**\*, Zhuolin Li. Consensus-based TOPSIS-Sort-B for multi-criteria sorting in the context of group decision making, *Annals of Operations Research (ANOR)*, 2023, 325(2), pp. 911-938, doi: 10.1007/s10479-022-04985-w. (SCI, 2023 IF=4.4, ABS 3, ESI highly cited paper)
- [23] Peng Li, Zhiwei Xu, **Zhen Zhang**\*, Zhuolin Li, Cuiping Wei. Consensus reaching in multicriteria social network group decision making: A stochastic multicriteria acceptability analysis-

based method, *Information Fusion (INFFUS)*, 2023, 97, 101825, doi: 10.1016/j.inffus.2023.101825. (SCI, EI, **2023 IF=14.8, ESI highly cited paper**)

- [24] **Zhen Zhang\***, Zhuolin Li. A consensus model for group decision making by considering personalized individual semantics and consistency, *Journal of Industrial Engineering and Engineering Management*, 2023, 37(6), pp. 157-168. (in Chinese, FMS-T1)
- [25] Tiantian Gai, Mingshuo Cao, Francisco Chiclana, **Zhen Zhang**, Yucheng Dong, Enrique Herrera-Viedma, Jian Wu\*. Consensus-trust driven bidirectional feedback mechanism for improving consensus in social network large-group decision making, *Group Decision and Negotiation (GDN)*, 2023, 32(1), pp. 45-74, doi: 10.1007/s10726-022-09798-7. (SSCI, **2023 IF=3.6, ESI highly cited paper, ESI hot paper**)
- [26] Yiling Yang, Tiantian Gai, Mingshuo Cao, **Zhen Zhang**, Hengjie Zhang, Jian Wu\*. Application of group decision making in shipping industry 4.0: Bibliometric analysis, trends and future directions, *Systems*, 2023, 11(2), 69, doi: 10.3390/systems11020069. (SSCI, **2023 IF=2.3, ESI highly cited paper, ESI hot paper**)
- [27] Yuan Gao, **Zhen Zhang\***. Consensus reaching with non-cooperative behavior management for personalized individual semantics-based social network group decision making, *Journal of the Operational Research Society (JORS)*, 2022, 73(11), pp. 2518-2535, doi: 10.1080/01605682.2021.1997654. (SCI, SSCI, EI, **2022 IF=3.6, ABS 3, ESI highly cited paper, ESI hot paper**)
- [28] Youwei Chen, Pengwei Zhao, **Zhen Zhang**, Juncheng Bai, Yuqi Guo. A stock price forecasting model integrating complementary ensemble empirical mode decomposition and independent component analysis, *International Journal of Computational Intelligence Systems (IJCIS)*, 2022, 15(1), 75, doi: 10.1007/s44196-022-00140-2. (SCI, EI, **2022 IF=2.9**)
- [29] Shanglei Chai, Xiaoli Yang, **Zhen Zhang**, Mohammad Zoynul Abedin\*, Brian Lucey. Regional imbalances of market efficiency in China's pilot emission trading schemes (ETS): A multifractal perspective, *Research in International Business and Finance (RIBAF)*, 2022, 63, 101758, doi: 10.1016/j.ribaf.2022.101758. (SSCI, **2022 IF=6.5, ABS 2**)
- [30] **Zhen Zhang\***, Zhuolin Li. Personalized individual semantics-based consistency control and consensus reaching in linguistic group decision making, *IEEE Transactions on Systems, Man, and Cybernetics: Systems (TSMCS)*, 2022, 52(9), pp. 5623-5635, doi: 10.1109/TSMC.2021.3129510. (SCI, EI, **2022 IF=8.7, ABS 3, ESI highly cited paper, ESI hot paper**)

- [31] Lin Tang, Leilei Sun, Chonghui Guo, **Zhen Zhang**. Adaptive spectral affinity propagation clustering, *Journal of Systems Engineering and Electronics (JSEE)*, 2022, 33(3), pp. 647-664, doi: 10.23919/JSEE.2022.000060. (SCI, EI, **2022 IF=2.1**)
- [32] Zhuolin Li, **Zhen Zhang**, Wenyu Yu\*. Consensus reaching with consistency control in group decision making with incomplete hesitant fuzzy linguistic preference relations, *Computers & Industrial Engineering (CAIE)*, 2022, 170, 108311, doi: 10.1016/j.cie.2022.108311. (SCI, EI, **2022 IF=7.9, ESI highly cited paper**)
- [33] Yating Liu, Yao Li, **Zhen Zhang\***, Yi Xu, Yucheng Dong. Classification-based strategic weight manipulation in multiple attribute decision making, *Expert Systems with Applications (ESWA)*, 2022, 197, 116781, doi: 10.1016/j.eswa.2022.116781. (SCI, EI, **2022 IF=8.5**)
- [34] Qingxing Dong\*, Qi Sheng, Luis Martínez, **Zhen Zhang\***. An adaptive group decision making framework: Individual and local world opinion based opinion dynamics, *Information Fusion (INFFUS)*, 2022, 78, pp. 218-231, doi: 10.1016/j.inffus.2021.09.013. (SCI, SSCI, EI, **2022 IF=18.6**)
- [35] **Zhen Zhang**, Xinyue Kou, Wenyu Yu\*, Yuan Gao. Consistency improvement for fuzzy preference relations with self-confidence: An application in two-sided matching decision making, *Journal of the Operational Research Society (JORS)*, 2021, 72(8), pp. 1914-1927, doi: 10.1080/01605682.2020.1748529. (SCI, SSCI, EI, **2021 IF=3.051, ABS 3, ESI highly cited paper**)
- [36] Zhen Zhang\*, Zhuolin Li, Yuan Gao. Consensus reaching for group decision making with multi-granular unbalanced linguistic information: A bounded confidence and minimum adjustment-based approach, *Information Fusion (INFFUS)*, 2021, 74, pp. 96-110, doi: 10.1016/j.inffus.2021.04.006. (SCI, EI, **2021 IF=17.564, ESI highly cited paper**)
- [37] Wenyu Yu, **Zhen Zhang\***, Qiuyan Zhong. Consensus reaching for MAGDM with multi-granular hesitant fuzzy linguistic term sets: a minimum adjustment-based approach, *Annals of Operations Research (ANOR)*, 2021, 300(2), pp. 443-466, doi: 10.1007/s10479-019-03432-7. (SCI, **2021 IF=4.82, ABS 3, ESI highly cited paper**)
- [38] Hengjie Zhang, Fang Wang, Qingxing Dong, Zaiwu Gong, Jian Wu, Zhibin Wu, Yejun Xu, **Zhen Zhang**, Yucheng Dong\*, Consensus reaching in group decision making: Research progress and prospect, *Journal of University of Electronic Science and Technology of China (Social Sciences Edition)*, 2021, 23(2), pp. 26-37. (in Chinese)

- [39] Lin Tang, Chonghui Guo, Leilei Sun, Yuqian Zuo, **Zhen Zhang**. A simulation research towards better leverage of sales ranking, *Journal of Systems Sciences and Systems Engineering (JSSSE)*, 2021, 30(1), pp. 105-122, doi: 10.1007/s11518-021-5478-4. (SCI, EI, **2021 IF=1.265**)
- [40] **Zhen Zhang**, Junliang Gao, Yuan Gao, Wenyu Yu\*. Two-sided matching decision making with multi-granular hesitant fuzzy linguistic term sets and incomplete criteria weight information, *Expert Systems with Applications (ESWA)*, 2021, 168, 114311, doi: 10.1016/j.eswa.2020.114311. (SCI, SSCI, EI, **2021 IF=8.665, ABS 3, ESI highly cited paper**)
- [41] Yuzhu Wu, **Zhen Zhang**, Gang Kou, Hengjie Zhang, Xiangrui Chao, Cong-Cong Li, Yucheng Dong\*, Francisco Herrera. Distributed linguistic representations in decision making: Taxonomy, applications, and challenges in data science and artificial intelligence, *Information Fusion (INFFUS)*, 2021, 65, pp. 165-178, doi: 10.1016/j.inffus.2020.08.018. (SCI, SSCI, EI, **2021 IF=17.564, ESI highly cited paper**)
- [42] Shanglei Chai, **Zhen Zhang**\*, Mo Du, Le Jiang. Volatility similarity and spillover effects in G20 stock market co-movements: An ICA-based ARMA-APARCH-M approach, *Complexity*, 2020, Article ID 8872307, doi: 10.1155/2020/8872307. (SCI, SSCI, EI, **2020 IF=2.833**)
- [43] **Zhen Zhang**, Wenyu Yu\*, Luis Martínez, Yuan Gao. Managing multigranular unbalanced hesitant fuzzy linguistic information in multiattribute large-scale group decision making: A linguistic distribution-based approach, *IEEE Transactions on Fuzzy Systems*, 2020, 28(11), pp. 2875-2889, doi: 10.1109/TFUZZ.2019.2949758. (SCI, EI, **2020 IF=12.029, ESI highly cited paper, ESI hot paper**)
- [44] **Zhen Zhang**\*, Yuan Gao, Zhuolin Li. Consensus reaching for social network group decision making by considering leadership and bounded confidence, *Knowledge-Based Systems (KBS)*, 2020, 204, 106240, doi: 10.1016/j.knosys.2020.106240. (SCI, EI, **2020 IF=8.038, ESI highly cited paper**)
- [45] **Zhen Zhang**, Xinyue Kou, Iván Palomares, Wenyu Yu\*, Junliang Gao. Stable two-sided matching with incomplete fuzzy preference relations: A disappointment theory based approach, *Applied Soft Computing*, 2019, 84, 105730, doi: 10.1016/j.asoc.2019.105730. (SCI, SSCI, EI, **2019 IF=5.472**)
- [46] Yue Zheng, Guangquan Zhang, **Zhen Zhang**, Jie Lu\*. A reducibility method for the weak linear bilevel programming problems and a case study in principal-agent, *Information Sciences (INS)*, 2018, 454-455, pp. 46-58, doi: 10.1016/j.ins.2018.04.045. (SCI, EI, **2018 IF=5.524**)

- [47] **Zhen Zhang\***, Xinyue Kou, Wenyu Yu, Chonghui Guo. On priority weights and consistency for incomplete hesitant fuzzy preference relations, *Knowledge-Based Systems (KBS)*, 2018, 143, pp. 115-126, doi: 10.1016/j.knosys.2017.12.010. (SCI, EI, 2018 IF=5.101, ESI highly cited paper, ESI hot paper)
- [48] **Zhen Zhang**, Xinyue Kou, Qingxing Dong\*. Additive consistency analysis and improvement for hesitant fuzzy preference relations, *Expert Systems with Applications (ESWA)*, 2018, 98, pp. 118-128, doi: 10.1016/j.eswa.2018.01.016. (SCI, EI, 2018 IF=4.292, ABS 3, ESI highly cited paper)
- [49] Wenyu Yu, Qiuyan Zhong, **Zhen Zhang\***. Multi-granular hesitant fuzzy linguistic group decision making with incomplete weight information, *Systems Engineering — Theory & Practice*, 2018, 38(3), pp. 777-785. (in Chinese, EI)
- [50] **Zhen Zhang**, Chonghui Guo. Deriving priority weights from intuitionistic multiplicative preference relations under group decision-making settings, *Journal of the Operational Research Society (JORS)*, 2017, 68(12), pp. 1582-1599, doi: 10.1057/s41274-016-0171-6. (SCI, SSCI, EI, 2017 IF=1.396, ABS 3)
- [51] Wenyu Yu, **Zhen Zhang\***, Qiuyan Zhong, Leilei Sun. Extended TODIM for multi-criteria group decision making based on unbalanced hesitant fuzzy linguistic term sets, *Computers & Industrial Engineering (CAIE)*, 2017, 114, pp. 316-328, doi: 10.1016/j.cie.2017.10.029. (SCI, SSCI, EI, 2017 IF=3.195, ABS 2\*, ESI highly cited paper)
- [52] **Zhen Zhang**, Chonghui Guo, Luis Martínez. Managing multigranular linguistic distribution assessments in large-scale multiattribute group decision making, *IEEE Transactions on Systems, Man, and Cybernetics: Systems (TSMCS)*, 2017, 47(11), pp. 3063-3076, doi: 10.1109/TSMC.2016.2560521. (SCI, SSCI, EI, 2017 IF=5.131, ESI highly cited paper)
- [53] **Zhen Zhang**, Chonghui Guo. A VIKOR-based approach to group decision making with uncertain preference ordinals and incomplete weight information, *Informatica*, 2016, 27(3), pp. 689-708, doi: 10.15388/Informatica.2016.106. (SCI, SSCI, EI, 2016 IF=1.056)
- [54] **Zhen Zhang**, Chonghui Guo. Fusion of heterogeneous incomplete hesitant preference relations in group decision making, *International Journal of Computational Intelligence Systems (IJCIS)*, 2016, 9(2), pp. 245-262, doi: 10.1080/18756891.2016.1149999. (SCI, EI, 2016 IF=1.14)

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- [56] **Zhen Zhang**, Chonghui Guo. Consistency and consensus models for group decision-making with uncertain 2-tuple linguistic preference relations, *International Journal of Systems Science (IJSS)*, 2016, 47(11), pp. 2572-2587, doi: 10.1080/00207721.2014.999732. (SCI, SSCI, EI, **2016 IF=2.285**)
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- [58] **Zhen Zhang**, Chonghui Guo. An approach to group decision making with heterogeneous incomplete uncertain preference relations, *Computers & Industrial Engineering (CAIE)*, 2014, 71, pp. 27-36, doi: 10.1016/j.cie.2014.02.004. (SCI, EI, **2014 IF=1.783**)
- [59] Chonghui Guo, Jiajia Wang, **Zhen Zhang**. Evolutionary community structure discovery in dynamic weighted networks, *Physica A*, 2014, 413, pp. 565-576, doi: 10.1016/j.physa.2014.07.04. (SCI, EI, **2014 IF=1.732**)
- [60] **Zhen Zhang**, Chonghui Guo. A method for multi-granularity uncertain linguistic group decision making with incomplete weight information, *Knowledge-Based Systems (KBS)*, 2012, 26, pp. 111-119, doi: 10.1016/j.knosys.2011.07.009. (SCI, EI, **2012 IF=4.104**)
- [61] **Zhen Zhang**, Chonghui Guo. A multi-granularity uncertain linguistic group decision making method based on relative entropy, *Journal of Dalian University of Technology*, 2012, 52(6), pp. 921-927. (in Chinese, EI)
- [62] **Zhen Zhang**, Chonghui Guo. Association rules evaluation by a hybrid multiple criteria decision method, *International Journal of Knowledge and Systems Science (IJKSS)*, 2011, 2(3), pp. 14-25. (INSPEC)
- [63] **Zhen Zhang**, Chonghui Guo. Multiple attributes group decision making method based on two-tuple linguistic information processing, *Control and Decision*, 2011, 26(12), pp. 1881-1885. (in Chinese, EI)

- [64] Chonghui Guo, **Zhen Zhang**. Interestingness evaluation of association rules based on combination evaluation method, *Journal of the China Society for Scientific and Technical Information*, 2011, 30(4), pp. 353-360. (in Chinese, CSSCI)
- [65] Shanglei Chai, Chonghui Guo, **Zhen Zhang**. Asymmetric and heteroskedastic model of volatility of international stock index and its clustering analysis, *Journal of Systems and Management*, 2011, 20(2), pp. 136-142. (in Chinese)

**Conference Papers [Total: 15, EI: 12]**

- [66] **Zhen Zhang**, Zhuolin Li, Wenyu Yu\*. Some models to improve the worst consistency level of hesitant fuzzy preference relations. In Proceedings of the 14th International FLINS Conference on Robotics and Artificial Intelligence (FLINS 2020), pp. 327-335, Cologne, Germany, 18-21 August 2020.
- [67] Amin Mahmoudi, Saad Ahmed Javed, **Zhen Zhang\***, Xiaopeng Deng. Grey group QUALIFLEX method: Application in project management. In Proceedings of the 14th International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2019), pp. 189-195, Dalian, China, 14-16 November, 2019. (EI)
- [68] **Zhen Zhang**, Yuan Gao, Wenyu Yu. Group decision making with linguistic distribution preference relations: An interval numerical scale-based approach. In Proceedings of the 14th International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2019), pp. 125-128, Dalian, China, 14-16 November, 2019. (EI)
- [69] **Zhen Zhang**, Junliang Gao, Wenyu Yu. Evaluating collaboration ability of R&D team members: A multi-granular hesitant fuzzy linguistic approach. In Proceedings of the 11th Conference of the European Society for Fuzzy Logic and Technology (EUSFLAT 2019), pp. 30-36, Prague, 9-13 September, 2019. (EI, ISTP)
- [70] **Zhen Zhang**, Wenyu Yu\*. An optimization-based approach to aggregating multi-granular hesitant fuzzy linguistic term sets. In Proceedings of the 13th International FLINS Conference on Data Science and Knowledge Engineering for Sensing Decision Support (FLINS 2018), pp. 205-212, Belfast, Northern Ireland, UK, 21-24, August 2018. (ISTP)
- [71] **Zhen Zhang**, Xinyue Kou, Wenyu Yu. Two-sided matching decision making based on heterogeneous incomplete preference relations. In Proceedings of the 12th International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2017), pp. 1-6, Nanjing, China, 24-26

November, 2017. (EI, ISTP)

- [72] Wei Wei, Chonghui Guo, Jingfeng Chen, **Zhen Zhang**. Textual topic evolution analysis based on term co-occurrence: A case study on the government work report of the State Council (1954-2017). In *Proceedings of the 12th International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2017)*, pp. 1-6, Nanjing, China, 24-26 November, 2017. (EI, ISTP)
- [73] Wenyu Yu, **Zhen Zhang\***, Qiuyan Zhong. A TODIM-based approach to large-scale group decision making with multi-granular unbalanced linguistic information. In *Proceedings of the 2017 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, pp. 1-6, Naples, Italy, 9-12 July, 2017. (EI, ISTP)
- [74] **Zhen Zhang**, Wenyu Yu, Chonghui Guo. Group decision making based on acceptably consistent interval multiplicative preference relations. In *Proceedings of the 17th International Symposium on Knowledge and Systems Sciences (KSS 2016)*, published by CCIS (vol. 660), pp. 165-174, Kobe, Japan, 4-6 November, 2016. (EI, ISTP)
- [75] **Zhen Zhang**, Chonghui Guo. Minimum adjustment-based consistency and consensus models for group decision making with interval pairwise comparison matrices. In *Proceedings of the 2016 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, pp. 1701-1708, Vancouver, Canada, 24-29 July, 2016. (EI, ISTP)
- [76] Wenyu Yu, Qiuyan Zhong, **Zhen Zhang\***. Fusing multi-granular unbalanced hesitant fuzzy linguistic information in group decision making. In *Proceedings of the 2016 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, pp. 872-879, Vancouver, Canada, 24-29 July, 2016. (EI, ISTP)
- [77] **Zhen Zhang**, Chonghui Guo. New operations of hesitant fuzzy linguistic term sets with applications in multi-attribute group decision making. In *Proceedings of the 2015 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2015)*, pp. 1-8, Istanbul, Turkey, 2-5 August, 2015. (EI, ISTP)
- [78] **Zhen Zhang**, Guangquan Zhang, Jie Lu, Chonghui Guo. A fuzzy tri-level decision making algorithm and its application in supply chain. In *Proceedings of the 8th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT 2013)*, pp. 154-160, Milan, Italy, 11-13 September, 2013. (EI, ISTP)

- [79] **Zhen Zhang**, Chonghui Guo. A hybrid multiple attributes two-sided matching decision making method with incomplete weight information. In *Proceedings of the 11th International Workshop on Meta-synthesis and Complex Systems (MCS 2011)*, published by LNAI (vol. 6889), pp. 272-283, Lanzhou, China, 7-9 September, 2011. (EI)
- [80] **Zhen Zhang**, Chonghui Guo. Ranking association rules by TOPSIS method with combination weights. In *Proceedings of the 10th International Symposium on Knowledge and Systems Sciences (KSS 2009)*, Hong Kong, China, 3-4 December 2009. (CD-ROM).

### **Edited Special Issues**

- [1] Konstantinos A. Chrysafis, **Zhen Zhang**. Decision Making in Uncertain Environments via Advanced Analytical Methods: Second Edition, Systems (SSCI, 2024 IF=3.1), 2025.
- [2] Dun Liu, Decui Liang, Yucheng Dong, **Zhen Zhang**, Zhen-Song Chen. Data-driven Decision Theory and Methods for Smart Connected Products, Industrial Engineering Journal (IEJ), 2025.
- [3] **Zhen Zhang**, Jian Wu. AI-supported Decision Making and Recommender Systems, Applied Sciences (SCI, 2023 IF=2.5), 2024.
- [4] Konstantinos A. Chrysafis, **Zhen Zhang**. Decision Making in Uncertain Environments via Advanced Analytical Methods, Systems (SSCI, 2024 IF=3.1), 2024.
- [5] Francisco Chiclana, Yucheng Dong, Enrique Herrera-Viedma, Cong-cong Li, **Zhen Zhang**. New Trends in Intelligent Group Decision Making and Consensus Modelling (IGDM-CM), Group Decision and Negotiation (SSCI, 2024 IF=2.5), 2024.
- [6] **Zhen Zhang**, Jian Wu, Hengjie Zhang, Wenyu Yu. Preference and Consensus Modeling in Group Decision Making under Complex Contexts, Systems (SSCI, 2023 IF=2.3), 2023.

### **Invited Talks**

- [1] An Incremental Preference Elicitation-Based Approach to Learning Potentially Non-Monotonic Preferences in Multi-Criteria Sorting, South China Normal University (SCNU), Guangzhou, Dec. 15, 2025.
- [2] Data-Driven Preference Learning for Multi-Criteria Sorting Considering Criteria Interactions, Guangzhou University (GZHU), Guangzhou, Dec. 15, 2025.

- [3] Data-Driven Preference Learning for Multi-Criteria Sorting Considering Criteria Interactions, Shantou University (STU), Shantou, Dec. 14, 2025.
- [4] Multi-Granularity Granular-Ball Clustering with Its Applications in Low-Altitude Economy, the First Forum on Low-Altitude Economy and Management, hosted by Shandong University (Wei-hai), Dec. 13, 2025.
- [5] An Optimization-Driven Framework for Persuader Selection in Social Networks with Opinion Evolution, University of Shanghai for Science and Technology (USST), Shanghai, Dec. 7, 2025.
- [6] An Incremental Preference Elicitation-Based Approach to Learning Potentially Non-Monotonic Preferences in Multi-Criteria Sorting, The 2nd Symposium on Digital Decision-Making, hosted by Shanghai University (SHU), Shanghai, Dec. 6, 2025.
- [7] Data-Driven Preference Learning for Multi-Criteria Sorting Considering Criteria Interactions, Zhejiang Gongshang University (ZJSU), Hangzhou, Nov. 10, 2025.
- [8] Non-Monotonic Preference Learning for Multi-Criteria Sorting, the Second Forum on Intelligent Management, Jinhua, hosted by Shanghai University of Finance and Economics Zhejiang College (SHUFE-ZJ), Nov. 8, 2025.
- [9] An optimization-driven framework for persuader selection in social networks with opinion evolution, Shanghai Maritime University (SHMTU), Shanghai, Nov. 7, 2025.
- [10] Data-Driven Preference Learning for Multi-Criteria Sorting Considering Criteria Interactions, the Forum on Game Theory and Intelligent Decision Making, Xi'an, hosted by Northwestern Polytechnical University (NWPU), Nov. 1, 2025.
- [11] Data-Driven Preference Learning for Multi-Criteria Sorting Considering Criteria Interactions, Xidian University (XDU), Xi'an, Oct. 31, 2025.
- [12] Data-Driven Preference Learning for Multi-Criteria Sorting Considering Criteria Interactions, Xi'an University of Technology (XAUT), Xi'an, Oct. 31, 2025.
- [13] Data-Driven Preference Learning for Multi-Criteria Sorting Considering Criteria Interactions, the 27th Chinese Conference on Management Sciences, Harbin, Aug. 17, 2025.
- [14] An Incremental Preference Elicitation-Based Approach to Learning Potentially Non-Monotonic Preferences in Multi-Criteria Sorting, the sixth Annual Conference of Intelligent Decision Making and Game Branch, CSOOPEM, Hefei, May. 10, 2025.

- [15] Modeling Personalized Individual Semantics in Multi-Criteria Decision Making, Nanjing University of Information Science and Technology (NUIST), May 9, 2025.
- [16] Group Consensus and Preference Learning for Multi-Criteria Sorting, China University of Mining and Technology (CUMT), Online, Nov. 1, 2024.
- [17] Group Consensus and Preference Learning for Multi-Criteria Sorting, Jiangsu University of Science and Technology (JUST), Zhenjiang, Oct. 28, 2024.
- [18] Group Consensus and Preference Learning for Multi-Criteria Sorting, Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, Oct. 20, 2024.
- [19] Modeling Personalized Individual Semantics in Linguistic Decision Making Problems, Nanjing Tech University (NJTU), Nanjing, Oct. 19, 2024.
- [20] Group Consensus and Preference Learning for Multi-Criteria Sorting, Anhui University of Technology (AHUT), Maanshan, Oct. 18, 2024.
- [21] Modeling Personalized Individual Semantics in Linguistic Decision Making, Taiyuan Normal University (TYNU), Online, Oct. 15, 2024.
- [22] Modeling Personalized Individual Semantics in Linguistic Decision Making, the First Chinese Conference on Artificial Intelligence Logic, the 4th International Conference on Artificial Intelligence Logic and Applications, Lanzhou, Aug. 10, 2024.
- [23] Group Consensus and Preference Learning for Multi-Criteria Sorting, Southwest Jiaotong University (SWJTU), Online, Jun. 20, 2024.
- [24] Consensus Modeling for Linguitsic Group Decision Making: A Perspective of Personalized Individual Semantics, Guangxi Normal University (GXNU), May 20, 2024.
- [25] Group Consensus and Preference Learning for Multi-Criteria Sorting, the Forum of Intelligent Decision and Game under Digital Economics Era, Sanming University (SMU), Apr. 26, 2024.
- [26] Group Consensus and Preference Learning for Multi-Criteria Sorting, the Workshop of Data-Driven Cross Frontiers and Transformation, Zhejiang University (ZJU), Apr. 21, 2024.
- [27] Consensus Modeling for Group Decision Making Under Multi-Criteria Sorting Context: A Minimum Adjustment Perspective, University of Shanghai for Science and Technology (USST), Dec. 4, 2023.

- [28] Consensus Modeling for Group Decision Making Under Multi-Criteria Sorting Context: A Minimum Adjustment Perspective, the Dishui Lake Forum of Economics and Management, Shanghai Maritime University (SHMTU), Online, Jul. 11, 2023.
- [29] Threshold-Based Value-Driven Method to Support Consensus Reaching in Multicriteria Group Sorting Problems: A Minimum Adjustment Perspective, Nanjing University of Information Science and Technology (NUIST), Online, Apr. 7, 2023.
- [30] Threshold-Based Value-Driven Method to Support Consensus Reaching in Multicriteria Group Sorting Problems: A Minimum Adjustment Perspective, Wuhan University (WHU), Online, Mar. 21, 2023.
- [31] Consensus Modeling for Linguistic Group Decision Making: A Perspective of Personalized Individual Semantics, Fujian Business University (FJBU), Online, Dec. 8, 2022.
- [32] Managing Linguistic Individuality and Non-Cooperative Behaviors in Social Network Group Decision Making, The First Workshop on Complex Management Systems, Tianjin University (TJU), Online, Oct. 28, 2022.
- [33] Consensus Modeling for Linguistic Group Decision Making: A Perspective of Personalized Individual Semantics, Anhui University (AHU), Online, Apr. 21, 2022.
- [34] Consensus Modeling for Group Decision Making Considering Bounded Confidence Levels, the First Annual Conference of Intelligent Decision Making and Game Branch, CSOOPM and the Forum for Data-Driven Decision and Game, Nanjing, Nov. 28, 2020.
- [35] Fusion Models for Multi-Granular Linguistic Distributions and Their Applications in Large-Scale Group Decision Making, the Workshop on Innovative Operation Mode and Intelligent Decision, Liaoning University (LNU), Online, Jul. 4, 2020.
- [36] Managing Linguistic Information in Group Decision Making: A Perspective of Linguistic Distributions, the Forum for Intelligent Decision and Management, The 20th Annual Conference of Systems Engineering Society of China, Chengdu, Oct. 28, 2018.

### Courses Teaching

- **Fundamentals of Data Science**, Postgraduates, Spring 2025, 2026
- **Complex Network and Complex Systems**, Postgraduates, Autumn 2024, 2025
- **Theories and Methods for Data-Driven Decision Making**, Postgraduates, Spring 2025, 2026

- **Decision Analysis: Theories and Methods**, Undergraduates, Spring, 2024, 2025, 2026
- **Introduction to Big Data**, Undergraduates, Autumn 2022, 2023, 2024, 2025
- **Decision Theories and Methods**, Postgraduates, Spring 2021, 2022, 2023 2024
- **Complex Network: Theories and Methods**, Postgraduates, Autumn 2018, 2019, 2020, 2021, 2022, 2023
- **Business Statistics and R**, Undergraduates, Autumn 2017, 2018, 2019, 2020, 2021, 2022
- **Principles of Management**, Undergraduates, Autumn 2017, 2018, 2019, 2020, 2021
- **Information and Knowledge Management**, Postgraduates, Spring 2016
- **Introduction to Knowledge Management**, Undergraduates, Summer 2016

### **Supervised Students**

#### **Ph.D. Students**

- Qianqian Chen, enrolled in Sep. 2025
- Zihang Jia, enrolled in Sep. 2024
- Zhuolin Li, enrolled in Sep. 2022
- Yuan Gao, enrolled in Sep. 2021
- Wenyu Yu (co-supervisor), graduated in Sep. 2021
- Shaonan Liu (co-supervisor), graduated in June. 2021
- Weiwei Liu (co-supervisor), graduated in June. 2021

#### **Master Students**

- Junting Guo, Shanshan Miao and Xiaotong Wu, enrolled in Sep. 2025
- Fu Xing and Zhihe Yu, enrolled in Sep. 2024
- Ying Li, Zitong Li, Ziyu Xu, enrolled in Sep. 2023
- Yuan Jin, Jize Luo and Yimingxuan Zhou (graduated in June 2025); Nan Yuan and Xiaoyun Zhang (graduated in June 2024); Jinfang Gu and Shuyao Shen (graduated in June 2023); Zhuolin Li, Siyuan Ji and Nan Wang (graduated in June 2022); Yuan Gao (graduated in June 2021); Junliang Gao (graduated in June 2020); Xinyue Kou (graduated in June 2019)

## **PROFESSIONAL ACTIVITIES**

### **Memberships & Professions**

- Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, INFORMS, INFORMS-GDN Section
- Member, IEEE Computational Intelligence Society
- Member, IEEE Systems, Man, and Cybernetics Society
- Member, European Society for Fuzzy Logic and Technology (EUSFLAT)
- Member, Systems Engineering Society of China (SESC)
- Member, Operations Research Society of China (ORSC)
- Member, China Computer Federation (CCF)
- Member, Chinese Association of Automation of China (CAA)
- Member, Chinese Society of Optimization, Overall Planning and Economic Mathematics (CSOOPEM)
- Member, Chinese Association for Artificial Intelligence (CAAI)
- Committee member and Vice secretary-general, Data Science and Knowledge Systems Engineering Branch, SESC
- Executive board member, Intelligent Decision Making and Game Branch, CSOOPEM
- Board member, Uncertain Systems Branch, ORSC
- Committee member, the Youth Working Committee, CSOOPEM
- Vice secretary-general, Business Intelligence Professional Committee of the Chinese Society for Management Modernization (CSMM) (Since 2016)
- Reviewer for the National Nature Science Foundation of China (NSFC) (Since 2018)

### **Editorial Boards**

- **Editor** of the “Artificial Intelligence and Decision Making” book series (Springer Nature), since Jul. 2025
- **Senior Editor** of International Journal of Computational Intelligence Systems (SCI, IF: 3.0), since Feb. 2026 (**Area editor**, Jul. 2024 - Feb. 2026; **Editorial Board Member**, Nov. 2019 - Jul. 2024)

- **Associate Editor** of Group Decision and Negotiation (ABS 2, FMS-B, SSCI, IF: 2.5), since Jan. 2024
- **Associate Editor** of Journal of Ambient Intelligence and Humanized Computing (IF: 3.662), since Jul. 2022
- **Editorial Board Member** of Information Fusion (SCI, IF: 15.5), since Jul. 2023
- **Editorial Review Board Member** of IEEE Transactions on Engineering Management (ABS 3, FMS-A, SCI/SSCI, IF: 5.2), since Jan. 2024
- **Editorial Advisory Board Member** of Kybernetes (SCI, IF: 2.9), since Apr. 2025 (**Associate Editor**, Jan. 2019 - Apr. 2025)
- **Editorial Board Member** of Systems (SSCI, IF: 3.1), since Feb. 2026 (**Topical Advisory Panel Member**, Aug. 2021 - Feb. 2026; **Topics Board Editor**, Mar. 2021 - Aug. 2021)
- **Academic Editor** of Complexity (SCI, IF: 1.7), since Jan. 2021
- **Youth Editorial Board Member** of CAAI Transactions on Intelligence Technology (SCI, IF: 7.3), since Jul. 2025
- **Associate Editor** of Frontiers in Artificial Intelligence (Logic and Reasoning in AI Section, ESCI, IF: 4.7), since Jan. 2020
- **Associate Editor** of Frontiers in Applied Mathematics and Statistics (Optimization Section, ESCI, IF: 1.5), since May 2020
- **Associate Editor** of Frontiers in Big Data (ESCI, IF: 2.3), since May 2023 (Review editor, JAn. 2019 - May 2023)
- **Topical Advisory Panel Member** of Mathematics (SCI, IF: 2.2), since June 2022
- **Topical Advisory Panel Member** of Information (ESCI, IF: 2.9), since May 2022
- **Editorial Board Member** of Data & Metadata, since Apr. 2023
- **Editor** of ICSES Transactions on Neural and Fuzzy Computing, since April 2019
- Secretary of the Big Data and Knowledge Management Branch Editorial Board, Management Science and Engineering Volume, Encyclopedia of China (The 3rd edition)

## Reviews & Conference Service

- **Peer Reviewer**, National Nature Science Foundation of China

- **PhD Dissertation External Examiner**, University of Management and Technology (Pakistan)
- **Journal Reviewers for**
  - Advances in Mathematical Physics (SCI)
  - Aerospace (SCI)
  - AIMS Mathematics (SCI)
  - Algorithms (SCI)
  - Annals of Operations Research (SCI)
  - Applied Artificial Intelligence (SCI)
  - Applied Economics Letters (SSCI)
  - Applied Intelligence (SCI)
  - Applied Mathematical Modelling (SCI)
  - Applied Mathematics in Science and Engineering (SCI)
  - Applied Soft Computing (SCI)
  - Artificial Intelligence in Medicine (SCI)
  - Artificial Intelligence Review (SCI)
  - Asia-Pacific Journal of Operational Research (SCI)
  - Axioms (SCI)
  - British Journal of Mathematical and Statistical Psychology (SCI/SSCI)
  - CAAI Transactions on Intelligence Technology (SCI)
  - Canadian Journal of Administrative Sciences (SSCI)
  - Complexity (SCI)
  - Computation (SCI)
  - Computational Intelligence and Neuroscience (SCI)
  - Computers & Industrial Engineering (SCI)
  - Computers & Operations Research (SCI)
  - Cybernetics and Systems (SCI)
  - Decision Sciences (SSCI)

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- Electronics (SCI)
- Energies (SCI)
- Engineering Applications of Artificial Intelligence (SCI)
- Engineering Computations (SCI)
- Environmental Science and Pollution Research (SCI)
- European Journal of Operational Research (SCI)
- Expert Systems (SCI)
- Expert Systems with Applications (SCI)
- FILOMAT (SCI)
- Financial Innovation (SSCI)
- Fuzzy Optimization and Decision Making (SCI)
- Fuzzy Sets and Systems (SCI)
- Group Decision and Negotiation (SSCI)
- Hacettepe Journal of Mathematics and Statistics (SCI)
- Healthcare (SCI)
- Heliyon (SCI)
- IEEE Access (SCI)
- IEEE/CAA Journal of Automatica Sinica (SCI)
- IEEE Transactions on Artificial Intelligence
- IEEE Transactions on Automation Science and Engineering (SCI)
- IEEE Transactions on Computational Social Systems (SCI)
- IEEE Transactions on Consumer Electronics (SCI)
- IEEE Transactions on Cybernetics (SCI)
- IEEE Transactions on Emerging Topics in Computational Intelligence (SCI)
- IEEE Transactions on Engineering Management (SCI/SSCI)

- IEEE Transactions on Fuzzy Systems (SCI)
- IEEE Transactions on Industrial Informatics (SCI)
- IEEE Transactions on Intelligent Transportation Systems (SCI)
- IEEE Transactions on Knowledge and Data Engineering (SCI)
- IEEE Transactions on Network Science and Engineering (SCI)
- IEEE Transactions on Neural Networks and Learning Systems (SCI)
- IEEE Transactions on Reliability (SCI)
- IEEE Transactions on Services Computing (SCI)
- IEEE Transactions on Systems, Man, and Cybernetics: Systems (SCI)
- IET Information Security (SCI)
- IIEE Transactions (SCI)
- INFORMATICA (SCI)
- Information Fusion (SCI)
- Information Processing and Management (SCI)
- Information Sciences (SCI)
- Information Systems Frontiers (SCI)
- International Journal of Computational Intelligence Systems (SCI)
- International Journal of Computer Integrated Manufacturing (SCI)
- International Journal of Disaster Risk Reduction (SCI)
- International Journal of Environmental Research and Public Health (SCI)
- International Journal of Fuzzy Systems (SCI)
- International Journal of General Systems (SCI)
- International Journal of Hospitality Management (SSCI)
- International Journal of Information Technology & Decision Making (SCI)
- International Journal of Intelligent Systems (SCI)
- International Journal of Machine Learning and Cybernetics (SCI)
- International Journal of Production Research (SCI)

- International Journal of Systems Science (SCI)
- International Journal of Uncertainty, Fuzziness and Knowledge-Based System (SCI)
- International Transactions in Operational Research (SCI/SSCI)
- Iranian Journal of Fuzzy Systems (SCI)
- Journal of Ambient Intelligence and Humanized Computing (SCI)
- Journal of Applied Statistics (SCI)
- Journal of Asian Architecture and Building Engineering (SCI)
- Journal of Cleaner Production (SCI)
- Journal of Engineering Design (SCI)
- Journal of Environmental and Public Health (SCI/SSCI)
- Journal of Experimental & Theoretical Artificial Intelligence (SCI)
- Journal of Forecasting (SSCI)
- Journal of Healthcare Engineering (SCI)
- Journal of Intelligent & Fuzzy Systems (SCI)
- Journal of Management Analytics (SSCI)
- Journal of Mathematics (SCI)
- Journal of Systems Science and Complexity (SCI)
- Journal of the Chinese Institute of Engineers (SCI)
- Journal of the Operational Research Society (SCI/SSCI)
- Knowledge-Based Systems (SCI)
- Kybernetes (SCI)
- Managerial and Decision Economics (SSCI)
- Mathematical Biosciences and Engineering (SCI)
- Mathematical Problems in Engineering (SCI)
- Mathematics (SCI)
- Mobile Information Systems (SCI)
- Natural Hazards (SCI)

- Networks and Heterogeneous Media (SCI)
- Neural Computing and Applications (SCI)
- Neurocomputing (SCI)
- Omega (SCI/SSCI)
- PeerJ Computer Science (SCI)
- Physica A (SCI)
- PLOS ONE (SCI)
- Processes (SCI)
- Risk Analysis (SCI/SSCI)
- Science and Technology for Energy Transition (SCI)
- Scientific Programming (SCI)
- Scientific Reports (SCI)
- Security and Communication Networks (SCI)
- Sensors (SCI)
- Socio-Economic Planning Sciences (SSCI)
- Soft Computing (SCI)
- Sustainability (SCI/SSCI)
- Symmetry (SCI)
- Systems (SSCI)
- Technological and Economic Development of Economy (SSCI)
- Technology Analysis & Strategic Management (SSCI)
- Wireless Communications and Mobile Computing (SCI)
- Advances in Fuzzy Systems
- African Journal of Business Management
- Annals of Fuzzy Mathematics and Informatics
- Cogent Engineering
- Conflict Resolution Quarterly

- Decision Analytics Journal
- Environmental and Sustainability Indicators
- Fuzzy Information and Engineering
- Granular Computing
- Health Systems
- Information-MDPI
- International Journal of the Analytic Hierarchy Process
- International Journal of Fuzzy System Applications
- International Journal of Intelligent Computing and Cybernetics
- International Journal of Multicriteria Decision Making
- International Journal of Systems Science: Operations & Logistics
- J-MDPI
- Journal of Applied Mathematics
- Journal of Computational Design and Engineering
- Journal of Control and Decision
- Journal of Multi-Criteria Decision Analysis
- Journal of Systems Science and Information
- Machine Learning with Applications
- OPSEARCH
- Social Network Analysis and Mining
- Stats
- Systems Science & Control Engineering
- The Open Cybernetics & Systemics Journal
- The Scientific World Journal
- Chinese Journal of Management Science (Chinese Journal)
- Chinese Journal of Management (Chinese Journal)
- Complex Systems and Complexity Science (Chinese Journal)

- Control and Decision (Chinese Journal)
  - Systems Engineering (Chinese Journal)
  - Systems Engineering - Theory & Practice (Chinese Journal)
  - Systems Engineering and Electronics (Chinese Journal)
  - Journal of Industrial Engineering and Engineering Management (Chinese Journal)
  - Journal of University of Science and Technology of China (Chinese Journal)
  - Journal of Safety Science and Technology (Chinese Journal)
  - Journal of Systems Engineering (Chinese Journal)
  - Operations Research and Management Science (Chinese Journal)
  - Journal of Systems Science and Mathematical Sciences (Chinese Journal)
  - Journal of Mathematics in Practice and Theory (Chinese Journal)
  - Nankai Business Review (Chinese Journal)
- **PC Members & Reviewers for**
    - The 16th FLINS Conference on Computational Intelligence in Decision and Control (FLINS 2024)
    - IEEE Conference on Artificial Intelligence (IEEE CAI, 2024)
    - The International Conference on Distributed Computing and Artificial Intelligence (DCAI, 2020-2024, 2026)
    - The IEEE International Conference on Fuzzy Systems (FUZZ-IEEE, 2017, 2019, 2021-2023)
    - The International Conference on Group Decision and Negotiation (GDN, 2018, 2020-2023, 2025, 2026)
    - The International Symposium on Knowledge and Systems Sciences (KSS, 2015-2019, 2024-2025)
    - The International Conference on Intelligent Systems and Knowledge Engineering (ISKE, 2013, 2017, 2019, 2024)
    - The IEEE World Congress on Computational Intelligence (WCCI, 2016, 2018, 2020)
    - The IEEE International Conference on Systems, Man, and Cybernetics (SMC 2018, 2025)

- The 15th International FLINS Conference on Machine learning, Multi agent and Cyber physical systems (FLINS 2022)
  - The 14th International FLINS Conference on Robotics and Artificial Intelligence (FLINS 2020)
  - The 13th International FLINS Conference on Data Science and Knowledge Engineering for Sensing Decision Support (FLINS 2018)
  - The 12th International FLINS Conference on Decision Making and Soft Computing (FLINS 2016)
  - The 11th International FLINS Conference on Decision Making and Soft Computing (FLINS 2014)
  - Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems (IFSA-SCIS 2017)
  - The 16th World Congress of the International Fuzzy Systems Association and the 9th Conference of the European Society for Fuzzy Logic and Technology (IFSA-EUSFLAT 2015)
  - The 15th IFSA World Congress and 32nd Annual Meeting of NAFIPS (IFSA-NAFIPS 2013)
  - Joint 10th International Conference on Soft Computing and Intelligent Systems and 19th International Symposium on Advanced Intelligent Systems in conjunction with Intelligent Systems Workshop 2018 (SCIS-ISIS2018)
  - The 1st International Alan Turing Conference on Decision Support and Recommender Systems (DSRS-Turing 2019)
  - The 2018 IEEE International Conference on Technology Management, Operations and Decisions (IEEE ICTMOD 2018)
  - The 37th North American Fuzzy Information Processing Society Annual Conference (NAFIPS 2018)
  - The 2013 International Conference on Knowledge Science, Engineering and Management (KSEM 2013)
  - The 12th International Workshop on Meta-synthesis & Complex Systems (MCS 2012)
- **Special Session/Stream Organizers for**

- “Artificial Intelligence for Optimization and Decision Making”, in the 17th FLINS Conference & the 21st ISKE Conference: Machine Learning and Knowledge Engineering for Decision Making, co-organized by Zhen Zhang, Lijun Sun, Jiapeng Liu and Yucheng Dong.
- “Intelligent Group Decision Making and Consensus Process”, in the International Conference on Group Decision and Negotiation (GDN 2021, GDN 2022, GDN 2023, GDN 2025, GDN 2026), co-organized by Zhen Zhang, Yucheng Dong, Francisco Chiclana and Enrique Herrera-Videma.
- “Data and Network-Driven Decision Analysis”, in the Annual Conference on Data Science and Knowledge Systems Engineering, Systems Engineering Society of China, 2020, 2025, co-organized by Zhen Zhang, Jian Wu and Yucheng Dong.
- “Data and Network-Driven Decision Analysis”, in the 2021 Annual Conference on Data Science and Knowledge Systems Engineering, Systems Engineering Society of China, co-organized by Zhen Zhang and Yucheng Dong.
- “Consensus for large-scale Group Decision Making”, in the 2020 International Conference on System Science and Engineering 2020 (ICSSE 2020), co-organized by Jian Wu, Yucheng Dong, Zaiwu Gong, Yejun Xu and Zhen Zhang.
- “Managing Uncertainty in Data-Driven Decision Making”, in the 14th International FLINS Conference on Robotics and Artificial Intelligence (FLINS 2020), co-organized by Zhen Zhang, Yucheng Dong and Yejun Xu.
- “Data-Driven Decision Making with Uncertainty”, in the 14th International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2019), co-organized by Luis Martínez, Yucheng Dong and Zhen Zhang.
- “Group Decision Making in Social Networks”, in the 49th International Conference on Computers & Industrial Engineering (CIE 49), co-organized by Jian Wu, Yucheng Dong, Zaiwu Gong, Yejun Xu and Zhen Zhang.
- “Consensus Process in Group Decision Making”, in the 18th International Conference on Group Decision and Negotiation (GDN 2018), co-organized by Yucheng Dong, Zaiwu Gong, Jian Wu, Zhen Zhang and Haiming Liang.
- “Intelligent Decision Support Systems: Models, Methods and Applications”, in the 12th International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2017),

co-organized by Zhen Zhang and Jialin Han.