









# Dr. Zhen Zhang

# **Professor, IEEE Senior Member**



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# **RESEARCH INTERESTS**

- Decision analysisgroup 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
- 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**

- Outstanding Reviewer, Journal of the Operational Research Society, 2022, 2023
- World's Top 2% Scientists, Stanford University, 2020, 2021, 2022, 2023
- 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: 57, SCI: 46, SSCI: 17, ESI highly cited: 21, ESI hot: 6]

- [1] 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, in press. (SCI, EI, 2023 IF=9.4, ABS 3)
- [2] 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, in press, doi: 10.1016/j.ejor.2024.11.047. (SCI, EI, 2023 IF=6.0, ABS 4)
- [3] 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, in press, doi: 10.1007/s10479-021-04392-7. (SCI, 2023 IF=4.48, ABS 3)
- [4] 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, 2023 IF=4.4, ABS 3, **ESI highly cited paper**)
- [5] 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, 2023 IF=14.8)
- [6] 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, 2023 IF=8.6, ABS 3)
- [7] **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, 2023 IF=6.7, ABS 3)
- [8] 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, 2023 IF=6.7, ABS 3)

- [9] 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, 2023 IF=10.7)
- [10] 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, 2023 IF=7.5)
- [11] 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, 2023 IF=2.7, ABS 3, **ESI highly cited paper**)
- [12] 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/T CSS.2023.3251351. (SCI, EI, 2023 IF=4.5, **ESI highly cited paper**)
- [13] 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)
- [14] **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**)
- [15] 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.2023.1 01825. (SCI, EI, 2023 IF=14.8, **ESI highly cited paper**)
- [16] **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)

- [17] 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**)
- [18] 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**)
- [19] 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**)
- [20] 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)
- [21] 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)
- [22] **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.2021.31 29510. (SCI, EI, 2022 IF=8.7, ABS 3, **ESI highly cited paper, ESI hot paper**)
- [23] 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)
- [24] 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**)
- [25] 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)
- [26] 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)
- [27] **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**)
- [28] 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.in ffus.2021.04.006. (SCI, EI, 2021 IF=17.564, **ESI highly cited paper**)
- [29] 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**)
- [30] 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)
- [31] 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)
- [32] **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)
- [33] 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**)
- [34] 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)
- [35] **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**)
- [36] **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**)
- [37] **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)
- [38] 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)
- [39] 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)

- [40] **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**)
- [41] 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)
- [42] **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)
- [43] 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**)
- [44] **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.2 016.2560521. (SCI, SSCI, EI, **2017 IF=5.131, ESI highly cited paper**)
- [45] **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)
- [46] **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)
- [47] **Zhen Zhang**, Chonghui Guo. Notes on "logarithmic least squares method to priority for group decision making with incomplete fuzzy preference relations", *Applied Mathematical Modelling* (*AMM*), 2016, 40(3), pp. 1788-1792, doi: 10.1016/j.apm.2015.07.024. (SCI, EI, 2016 IF=2.35)

- [48] **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)
- [49] **Zhen Zhang**, Chonghui Guo. Consistency-based algorithms to estimate missing elements for uncertain 2-tuple linguistic preference relations, *International Journal of Computational Intelligence Systems (IJCIS)*, 2014, 7(5), pp. 924-936, doi: 10.1080/18756891.2013.856254. (SCI, EI, 2014 IF=0.574)
- [50] **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)
- [51] 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.2014.07.0 04. (SCI, EI, 2014 IF=1.732)
- [52] **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**)
- [53] **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)
- [54] **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)
- [55] **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)
- [56] 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)
- [57] 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]

- [58] **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.
- [59] 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)
- [60] **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)
- [61] **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)
- [62] **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)
- [63] **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)
- [64] 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)

- [65] 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)
- [66] **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)
- [67] **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)
- [68] 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)
- [69] **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)
- [70] **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)
- [71] **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)
- [72] **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] **Zhen Zhang**, Jian Wu. "AI-supported Decision Making and Recommender Systems", Applied Sciences (SCI, 2023 IF=2.5).
- [2] Konstantinos A. Chrysafis, **Zhen Zhang**. "Decision Making in Uncertain Environments via Advanced Analytical Methods", Systems (SSCI, 2023 IF=2.3).
- [3] 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, 2023 IF=3.6).
- [4] **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).

#### **Invited Talks**

- [1] Group Consensus and Preference Learning for Multi-Criteria Sorting, China University of Mining and Technology (CUMT), Online, Nov. 1, 2024.
- [2] Group Consensus and Preference Learning for Multi-Criteria Sorting, Jiangsu University of Science and Technology (JUST), Zhenjiang, Oct. 28, 2024.
- [3] Group Consensus and Preference Learning for Multi-Criteria Sorting, Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, Oct. 20, 2024.
- [4] Modeling Personalized Individual Semantics in Linguistic Decision Making Problems, Nanjing Tech University (NJTU), Nanjing, Oct. 19, 2024.
- [5] Group Consensus and Preference Learning for Multi-Criteria Sorting, Anhui University of Technology (AHUT), Maanshan, Oct. 18, 2024.
- [6] Modeling Personalized Individual Semantics in Linguistic Decision Making, Taiyuan Normal University (TYNU), Online, Oct. 15, 2024.
- [7] 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.

- [8] Group Consensus and Preference Learning for Multi-Criteria Sorting, Southwest Jiaotong University (SWJTU), Online, Jun. 20, 2024.
- [9] Consensus Modeling for Linguitsic Group Decision Making: A Perspective of Personalized Individual Semantics, Guangxi Normal University (GXNU), May 20, 2024.
- [10] 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.
- [11] Group Consensus and Preference Learning for Multi-Criteria Sorting, the Workshop of Data-Driven Cross Frontiers and Transformation, Zhejiang University (ZJU), Apr. 21, 2024.
- [12] 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.
- [13] 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.
- [14] 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.
- [15] 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.
- [16] Consensus Modeling for Linguitsic Group Decision Making: A Perspective of Personalized Individual Semantics, Fujian Business University (FJBU), Online, Dec. 8, 2022.
- [17] 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.
- [18] Consensus Modeling for Linguitsic Group Decision Making: A Perspective of Personalized Individual Semantics, Anhui University (AHU), Online, Apr. 21, 2022.
- [19] Consensus Modeling for Group Decision Making Considering Bounded Confidence Levels, the First Annual Conference of Intelligent Decision Making and Game Branch, CSOOPEM and the Forum for Data-Driven Decision and Game, Nanjing, Nov. 28, 2020.

- [20] 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.
- [21] 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
- Complex Network and Complex Systems, Postgraduates, Autumn 2024
- Theories and Methods for Data-Driven Decision Making, Postgraduates, Spring 2025
- Decision Analysis: Theories and Methods, Undergraduates, Spring, 2024
- Introduction to Big Data, Undergraduates, Autumn 2022, 2023
- Decision Theories and Methods, Postgraduates, Spring 2021, 2022, 2023
- 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

- 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**

- 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, enrolled in Sep. 2022
- 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)

#### MBA/MEM/MPM Students

- Yuanyuan Li, Gang Liu, Jun Liu, Yuan Ren and Zhicheng Wang, graduated in 2024
- Ying Dong, Weijia Hao, Wen Gu, Mingyu Li, and Yaowei Wang, graduated in 2023
- Ting Geng, Ying Han, Yang Li, Yong Peng, Lu Wang, Qingyuan Yang, and Weijing Zhu, graduated in 2022
- Ji He, Qing Li, Hengyue Sun, Shaoqun Yang, and Congqin Zhang, graduated in 2021
- Lu Bai, Chunyang Huang, Yumeng Li, Tiejian Wang, and Xiamei Xu, graduated in 2020
- Peng Jiang and Xiangli Liu, graduated in 2019
- Wei Liu, Jiahe She, Lei Wang, and Jiahui Zhang, graduated in 2018
- Shuo Li, graduated in 2017
- Wulong Hao, Jiamei Shao, Fei Sun, Chenxi Wang, Yingxue Wang, Yu Wang, Ming Zhao, and Ye Zhao, enrolled in 2023
- Yifan Chen, Yuanyuan Dai, Xing Huang, Jianhui Jin, Shanshan Li, Jiacheng Song, Xuejun Wang, and Shuai Zhao, enrolled in 2022
- Qiujie Cui, Yiming Dong, Shenyang Hu, and Xiaoyi Zhang, enrolled in 2021
- Liruan Ren, enrolled in 2020

# **Undergraduate Students**

- Qianjun Jing, Minghao Qin, Xianyao Qiu, and Yuhang Wang (thesis supervision in 2024, graduated in 2024)
- Yao Fu and Xinbo Lu, enrolled in Sep. 2023
- Zehai Ren, Rui Xue, and Baiyu Zhao, enrolled in Sep. 2022
- Qingjiang Lu, Chang Sun, Jielei Xu, and Yu Zheng, enrolled in Sep. 2021
- Jiajun Kong and Leilei Zhang, graduated in 2024
- Guangqi Dai and Zihan Xia, graduated in 2023
- Yulin Bai, Jinxin Li, Zitong Li, and Tianyi Zhao (thesis supervision in 2023, graduated in 2023)
- Jiaxin Ji, Jialong Li, Tianyu Liu, Jialu Wang, Shuyuan Zhao, and Yimingxuan Zhou (thesis supervision in 2022, graduated in 2022)
- YiGuo Deng, Dongbiao Li, Guorui Li, Gong Peng, Shuyan Tang, and Chenxi Wang (thesis supervision in 2021, graduated in 2021)
- Mian Wu, graduated in 2021
- Miao Chen, Shuai Liu, Yujian Qiu, Ruiying Yang, and Zhenyu Yao (thesis supervision in 2020, graduated in 2020)
- Lin Liu and Xiankun Peng (thesis supervision in 2020), graduated in 2020
- Wenwen Ma and Yuexin Wang, graduated in 2019
- Sichen Tan and Jiayi Yang, graduated in 2018
- Jian Cheng, Jiaxu Liu, Zhemin Liu, Bingshuo Ren, and Xinyi Yu (thesis supervision in 2019, graduated in 2019)
- Xinze Chang, Danyang Song, Jia Song, and Shuting Zhang (thesis supervision in 2018, graduated in 2018)
- Min Chen, Junpeng Sun, Jinxiao Tan, Yao Yu, and Kunbo Zhang (thesis supervision in 2017, graduated in 2017)

#### **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**

• **Associate Editor** of Group Decision and Negotiation (ABS 2, FMS-B, SSCI, IF=3.6), since Jan. 2024

https://www.springer.com/journal/10726/editors

Associate Editor of Kybernetes (SCI, IF: 2.5), since Jan. 2019
 http://www.emeraldgrouppublishing.com/products/journals/editorial\_team.htm?id=k

• Area Editor of International Journal of Computational Intelligence Systems (SCI, IF: 2.5), since Jul. 2024

https://www.springer.com/journal/44196/editors

- **Associate Editor** of Journal of Intelligent & Fuzzy Systems (SCI, IF: 1.7), since Dec. 2018 https://www.iospress.nl/journal/journal-of-intelligent-fuzzy-systems/?tab=editorial-board
- **Associate Editor** of Journal of Ambient Intelligence and Humanized Computing (IF: 3.662), since July 2022

https://www.springer.com/journal/12652/editors

- Editorial Board Member of Information Fusion (SCI, IF: 14.8), since July 2023 https://www.sciencedirect.com/journal/information-fusion/about/editorial-board
- Editorial Review Board Member of IEEE Transactions on Engineering Management (ABS 3, FMS-A, SCI/SSCI, IF: 4.6), since Jan. 2024 https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10356850
- **Academic Editor** of Complexity (SCI, IF: 1.7), since Jan. 2021 https://www.hindawi.com/journals/complexity/editors
- Guest Editor of Group Decision and Negotiation (SSCI, IF=3.6), Nov. 2022 Mar. 2024
- Guest Editor of Systems (SSCI, IF: 2.3), Nov. 2022 Dec. 2023, May 2024 Dec. 2024
- Guest Editor of Applied Sciences (SCI, IF: 2.5), Sep. 2024 Sep. 2025
- Associate Editor of Frontiers in Artificial Intelligence (Fuzzy Systems Section, ESCI, IF: 3.0), since Jan. 2020

https://www.frontiersin.org/journals/artificial-intelligence/sections/fuzzy-systems#editorial-board

- Associate Editor of Frontiers in Applied Mathematics and Statistics (Optimization Section, ESCI, IF: 1.3), since May 2020
  - https://www.frontiersin.org/journals/applied-mathematics-and-statistics/sections/optimization#editorial-board
- **Associate Editor** of Frontiers in Big Data (ESCI, IF: 2.4), since May 2023 https://www.frontiersin.org/journals/big-data#editorial-board

• Editorial Board Member of International Journal of Computational Intelligence Systems (SCI, IF: 2.5), Nov. 2019 - Jul. 2024 https://www.springer.com/journal/44196/editors

- **Topics Board Editor** of Systems (SSCI, IF: 2.3), Mar. 2021 Aug. 2021 https://www.mdpi.com/journal/systems/topic editors
- **Topical Advisory Panel Member** of Mathematics (SCI, IF: 2.3), since June 2022 https://www.mdpi.com/journal/mathematics/topical advisory panel
- Topical Advisory Panel Member of Systems (SSCI, IF: 2.3), since Aug. 2021 https://www.mdpi.com/journal/systems/topical advisory panel
- Topical Advisory Panel Member of Information (ESCI, IF: 2.4), since May 2022 https://www.mdpi.com/journal/information/topical\_advisory\_panel
- Editorial Board Member of Data & Metadata, since Apr. 2023 https://dm.saludcyt.ar/index.php/dm/about/editorialTeam
- **Editor** of ICSES Transactions on Neural and Fuzzy Computing, since April 2019 http://www.i-cses.com/itnfc/index.php#anchor1
- 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 Intelligence (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)
- Complexity (SCI)
- Computation (SCI)
- Computational Intelligence and Neuroscience (SCI)
- Computers & Industrial Engineering (SCI)
- Computers & Operations Research (SCI)
- Cybernetics and Systems (SCI)
- Decision Sciences (SSCI)
- Digital Health (SCI/SSCI)
- Discrete Dynamics in Nature and Society (SCI)
- 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)
- 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 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 Network Science and Engineering (SCI)
- IEEE Transactions on Neural Networks and Learning Systems (SCI)
- IEEE Transactions on Reliability (SCI)
- IEEE Transactions on Systems, Man, and Cybernetics: Systems (SCI)
- IET Information Security (SCI)
- IISE 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)
- 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 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)
- 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)
- Soft Computing (SCI)
- Sustainability (SCI/SSCI)
- Symmetry (SCI)
- 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
- 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
- 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)
- 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)
- The International Symposium on Knowledge and Systems Sciences (KSS, 2015-2019, 2024)
- 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 2018 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2018)
- 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

- "Intelligent Group Decision Making and Consensus Process", in the International Conference on Group Decision and Negotiation (GDN 2021, GDN 2022, GDN 2023), coorganized by Zhen Zhang, Yucheng Dong, Francisco Chiclana and Enrique Herrera-Videma.
- "Data and Network-Driven Decision Analysis", in the 2022 Annual Conference on Data Science and Knowledge Systems Engineering, Systems Engineering Society of China, coorganized 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, coorganized 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.