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## EDUCATION

- 2021      Ph.D. in Aircraft Design, Northwestern Polytechnical University  
Dissertation: Research on Weapon System Contribution Degree under Uncertainty  
Based on the Mapping Relationships  
Supervisor: An Zhang
- 2016      B.E. in Detection, Guidance, and Control Technology, Northwestern  
Polytechnical University

## EMPLOYMENT & AFFILIATIONS

- 2022-      Lecturer, Shandong Jiaotong University

## RESEARCH FIELDS

- Primary:      Decision-making, Fuzzy logic  
Secondary:    Weapon system-of-systems, Human reliability analysis

## PUBLISHED PAPERS

- 2024      “An intuitionistic fuzzy weighted influence non-linear gauge system for  
equipment evaluation under system-of-systems warfare environment” (with  
Weikai He and Wenhao Bi), *Expert Systems with Applications*, 238: 122187.
- 2023      “Ensemble extended belief rule-based systems with different similarity  
measures for classification problems” (with Weikai He and Wenhao Bi),  
*International Journal of Approximate Reasoning*, 163: 109054.
- “Prioritization of key practices for marine diesel engine maintenance activities  
using 2-tuple linguistic term set and DEMATEL” (with Qingguo Shi and  
Yihuai Hu), *Ocean Engineering*, 286: 115644.
- “A fast belief rule base generation and reduction method for classification  
problems” (with Wenhao Bi), *International Journal of Approximate Reasoning*,  
160: 108964.
- “Density-based approach for fuzzy rule interpolation”, *Applied Soft Computing*,  
143: 110402.
- “Dependence assessment in human reliability analysis using the 2-tuple  
linguistic information and DEMATEL method” (with Wenjiang Liu, Xu Mu,  
Wenhao Bi, and An Zhang), *Process Safety and Environmental Protection*, 173:  
191–201.

- “A new belief rule base inference methodology with interval information based on the interval evidential reasoning algorithm” (with Chencan Bi, Wenhao Bi and An Zhang), *Applied Intelligence*, 53 (10): 12504–12520.
- “A novel rule generation and activation method for extended belief rule-based system based on improved decision tree” (with Junwen Ma, An Zhang, Wenhao Bi and Changhong Tang), *Applied Intelligence*, 53 (7): 7355–7368.
- “Prioritization of used aircraft acquisition criteria: A fuzzy best-worst method (BWM)-based approach” (with Weixiang Wang, Chencan Bi, Wenhao Bi and An Zhang), *Journal of Air Transport Management*, 107: 102359.
- 2022 “An integrated risk analysis method for tanker cargo handling operation using the cloud model and DEMATEL method”, *Ocean Engineering*, 266: 113021.
- “Assessing dependence in human reliability analysis using probabilistic linguistic term sets” (with Shuida Bao and Wenhao Bi), *Annals of Nuclear Energy*, 175: 109261.
- “A framework for extended belief rule base reduction and training with the greedy strategy and parameter learning” (with Wenhao Bi, An Zhang and Shuida Bao), *Multimedia Tools and Applications*, 81: 11127–11143.
- “A distributed task reassignment method in dynamic environment for multi-UAV system” (with Mi Yang, An Zhang and Wenhao Bi), *Applied Intelligence*, 52 (2): 1582–1601.
- 2021 “Distributed task allocation with critical tasks and limited capacity” (with An Zhang, Mi Yang and Wenhao Bi), *Robotica*, 39 (11): 2008–2032.
- “A novel weapon system effectiveness assessment method based on the interval-valued evidential reasoning algorithm and the analytical hierarchy process” (with Wenhao Bi and An Zhang), *IEEE Access*, 9: 53480–53490.
- “A greedy belief rule base generation and learning method for classification problem” (with An Zhang, Wenhao Bi and Junwen Ma), *Applied Soft Computing*, 98: 106856.
- “Dependence assessment in human reliability analysis based on the interval evidential reasoning algorithm Under interval uncertainty” (with Wenhao Bi, An Zhang and Mi Yang), *IEEE Access*, 8: 222187–222198.
- 2020 “Weapon system operational effectiveness evaluation based on the belief rule-based system with interval data” (with An Zhang and Wenhao Bi), *Journal of Intelligent & Fuzzy Systems*, 39 (5): 6687–6701.
- “Belief rule-based dependence assessment method under interval uncertainty” (with An Zhang, Wenhao Bi, and Mi Yang), *Quality and Reliability Engineering International*, 36 (7): 2459–477.
- “A new rule reduction and training method for extended belief rule base based on DBSCAN algorithm” (with An Zhang, Mi Yang and Wenhao Bi), *International Journal of Approximate Reasoning*, 119: 20–39.

2019      “A novel strong tracking cubature Kalman filter and its application in maneuvering target tracking” (with An Zhang, Shuida Bao and Wenhao Bi), *Chinese Journal of Aeronautics*, 32 (11): 2489–2502.

## TEACHING EXPERIENCE

Shandong	Introduction to Measurement and Control Technology (undergraduate)
Jiaotong	Analog Electronics (undergraduate)
University	Digital Image Processing (undergraduate)
	Sensor Technology and Applications (undergraduate)

## SKILLS

Coding	Matlab, C++
Skills:	
Languages:	Chinese (native), English (fluent)

## PROFESSIONAL SERVICE

Reviewer:      *IEEE Transactions on Cybernetics, IEEE Transactions on Fuzzy Systems, IEEE Transactions on Reliability, Reliability Engineering & System Safety, Expert Systems with Applications, Ocean Engineering, Ships and Offshore Structures, Kybernetes, Soft Computing, Journal of Intelligent & Fuzzy Systems, IEEE Access, Quality and Reliability Engineering International, Journal of Taibah University for Science*