Fei Gao   Curriculum Vitae

School of Aeronautics   *Phone:* (+86) 18706733672
Shandong Jiaotong University   *E-mail:* gaofei1995@hotmail.com
Jinan, Shandong   *Homepage:* feigao95.github.io
China   *Citizenship:* P. R. China

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

SKILLS

| Coding Skills: | Matlab, C++ |
| 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* |