Fei Gao — Curriculum Vitae

School of Aeronautics
Shandong Jiaotong University
Jinan, Shandong
China

Phone: (+86) 18706733672
E-mail: gaofei1995@hotmail.com
Homepage: feigao95.github.io
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 "Dependence assessment in human reliability analysis based on cloud model and best-worst method" (with Changcheng Ji and Wenjiang Liu), *Reliability Engineering & System Safety*, 224: 109770.

"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*