

Personal Profile



Hui Zhang received his B.S. degree in Internet of Things engineering from Shandong Jianzhu University, Jinan, China, in 2022. He is currently pursuing the Ph.D. degree in control engineering with the School of Control Science and Engineering, Shandong University, Jinan, China. He has authored or co-authored ten international journal and conference papers, particularly in IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS and IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. His current research interests include hydrogen safety, machine learning and computational intelligence.

Mr. Zhang has served as a reviewer for several international conferences and journals, such as IEEE TRANSACTIONS ON FUZZY SYSTEMS, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, and IWEP 2024.

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Paper

- [1] **Hui Zhang**, Bo Sun, Wei Peng. A Novel Hybrid Deep Fuzzy Model Based on Gradient Descent Algorithm with Application to Time Series Forecasting. *Expert Systems with Applications*, 2024. (Published)
- [2] **Hui Zhang**, Lizhi Zhang, Zhiwei Xu, Guangyao Fan, Bin Jia, Bo Sun. Interactive Integrated Design Framework for Optimizing the Structure, Capacity, and Operation of Multienergy Systems via Reinforcement Learning. *IEEE Transactions on Industrial Informatics*, 2025. (Accepted)
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- [4] **Hui Zhang**, Wei Peng. Time Series Forecasting Based on Interval Type-2 Fuzzy Logic System with PSO. *China Automation Congress*, 2021. (Published)
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- [6] Lizhi Zhang, **Hui Zhang**, Fan Li, Bo Sun. Bi-level Optimal Design of Integrated Energy System with Synergy of Renewables, Conversion, Storage and Demand. *IEEE Transactions on Industry Applications*, 2024. (Published)
- [7] Guangyao Fan, **Hui Zhang**, Bo Sun, Fengwen Pan. Economic and environmental competitiveness of multiple hydrogen production pathways in China. *Nature Communications*, 2025. (Accepted)
- [8] Haoyu Ming, Dong Lu, **Hui Zhang**, Naxin Cui. A Novel State of Health Estimation method for Lithium-ion Battery Based on Forward-Broad Learning System. *Journal of Energy Storage*, 2024. (Published)
- [9] Xiaopeng Wang, **Hui Zhang**, Jiaxin Zhang, Xuefang Li, Bo Sun. A Hydrogen Leakage Traceability Method Based on ResNet. *International Conference on Smart Grid, Electrical Automation and Energy Internet*, 2025. (Accepted)
- [10] Lizhi Zhang, **Hui Zhang**, Wei Peng. Cooperative optimal scheduling of integrated energy system including P2G and seasonal hydrogen storage. *International Conference on Mechatronics, Robotics, and Artificial Intelligence*, 2025. (Accepted)