

# Edge Computing-Aided Framework of Fault Detection for High-Speed Trains

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Speed Profile Tracking by an Adaptive Controller for Subway Train Based on Neural Network and PID Algorithm. IEEE Transactions on Vehicular Technology, 2020, 69, 10656-10667.	6.3	31
2	Health Assessment of High-Speed Train Running Gear System under Complex Working Conditions Based on Data-Driven Model. Mathematical Problems in Engineering, 2020, 2020, 1-13.	1.1	2
3	Data-Driven Fault Diagnosis for Traction Systems in High-Speed Trains: A Survey, Challenges, and Perspectives. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1700-1716.	8.0	244
4	Data-Driven Incipient Fault Detection and Diagnosis for the Running Gear in High-Speed Trains. IEEE Transactions on Vehicular Technology, 2020, 69, 9566-9576.	6.3	29
5	Multiple-Model-Based Diagnosis of Multiple Faults With High-Speed Train Applications Using Second-Level Adaptation. IEEE Transactions on Industrial Electronics, 2021, 68, 6257-6266.	7.9	19
6	A Bayesian Game-Based Train Protection Method Using Train-to-Train Communication. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 202-213.	3.8	2
7	Directed-Graph-Learning-Based Diagnosis of Multiple Faults for High Speed Train With Switched Dynamics. IEEE Transactions on Cybernetics, 2023, 53, 1712-1724.	9.5	7
8	Data-Driven Designs of Fault Detection Systems via Neural Network-Aided Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5694-5705.	11.3	45
9	EH-Edge--An Energy Harvesting-Driven Edge IoT Platform for Online Failure Prediction of Rail Transit Vehicles: A case study of a cloud, edge, and end device collaborative computing paradigm. IEEE Vehicular Technology Magazine, 2021, 16, 95-103.	3.4	3
10	Component-Level Fault Detection for Suspension System of Maglev Trains Based on Autocorrelation Length and Stable Kernel Representation. IEEE Transactions on Vehicular Technology, 2021, 70, 7594-7604.	6.3	4
11	A Tutorial on Hardware-Implemented Fault Injection and Online Fault Diagnosis for High-Speed Trains. Sensors, 2021, 21, 5957.	3.8	2
12	Throughput Maximization of Offloading Tasks in Multi-Access Edge Computing Networks for High-Speed Railways. IEEE Transactions on Vehicular Technology, 2021, 70, 9525-9539.	6.3	13
13	A Review of Intelligent Fault Diagnosis for High-Speed Trains: Qualitative Approaches. Entropy, 2021, 23, 1.	2.2	75
14	A novel mechanical-electric-hydraulic power coupling electric vehicle considering different electrohydraulic distribution ratios. Energy Conversion and Management, 2021, 249, 114870.	9.2	31
16	Basics of Data-Driven FDD Methods. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 43-61.	0.5	0
17	Edge-aided control dynamics for information diffusion in social Internet of Things. Neurocomputing, 2022, 485, 274-284.	5.9	11
18	A SVPWM-based fault-tolerance control method for three-level inverter under different working conditions. , 2021, , .		1
19	A method of Fault Diagnosis of non-Gaussian Property and Performance Correlation Based on Independent Component Analysis. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
20	Integrated fault detection for industrial process monitoring based on multi-dimensional Taylor network. <i>Assembly Automation</i> , 2022, 42, 218-235.	1.7	1
21	Composite Adaptive Anti-Disturbance Fault Tolerant Control of High-Speed Trains With Multiple Disturbances. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 21799-21809.	8.0	4
22	A hyper-heuristic inspired approach for automatic failure prediction in the context of industry 4.0. <i>Computers and Industrial Engineering</i> , 2022, 171, 108381.	6.3	3
23	Research on Virtual Coupled Train Control Method Based on GPC & VAPF. <i>Chinese Journal of Electronics</i> , 2022, 31, 897-905.	1.5	51
24	Just-In-Time-Learning Multi-Block Dynamic Independent Component Analysis for Electrical Drive Systems of High-Speed Trains. , 2022, , .		1
25	Fault Prediction of On-Board Train Control Equipment Using a CGAN-Enhanced XGBoost Method with Unbalanced Samples. <i>Machines</i> , 2023, 11, 114.	2.2	3
26	A review of high performance computing applications in high-speed rail systems. , 2023, 1, 92-96.		1
27	Dynamic inner independent component analysis-based incipient fault detection for electric drive systems of high-speed trains. <i>Journal of Control and Decision</i> , 0, , 1-11.	1.6	0
28	Modeling and Estimation of Train Traction Characteristics Under Emergency Traction Considering On-board Energy Storage Devices. , 2023, , .		0
29	Implementing Edge Computing Architectures for Railway Applications: An example Using the Emu5GNet Platform. , 2023, , .		0
30	Overview of fault prognosis for traction systems in high-speed trains: A deep learning perspective. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 126, 106845.	8.1	5
31	Sigma-Mixed Unscented Kalman Filter-Based Fault Detection for Traction Systems in High-Speed Trains. <i>Chinese Journal of Electronics</i> , 2023, 32, 982-991.	1.5	2
32	High-Speed Train Traction System Reliability Analysis. , 0, , .		0
33	End-edge-cloud collaborative learning-aided prediction for high-speed train operation using LSTM. <i>Transportation Research Part C: Emerging Technologies</i> , 2024, 160, 104527.	7.6	0