

Ding-Li Yu

List of Publications by Year in descending order

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101
papers

1,212
citations

471371

17
h-index

434063

31
g-index

103
all docs

103
docs citations

103
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive neural network model based predictive control for air-fuel ratio of SI engines. Engineering Applications of Artificial Intelligence, 2006, 19, 189-200.	4.3	116
2	Implementation of neural network predictive control to a multivariable chemical reactor. Control Engineering Practice, 2003, 11, 1315-1323.	3.2	78
3	Neural network model-based automotive engine air/fuel ratio control and robustness evaluation. Engineering Applications of Artificial Intelligence, 2009, 22, 171-180.	4.3	69
4	Sensor fault diagnosis in a chemical process via RBF neural networks. Control Engineering Practice, 1999, 7, 49-55.	3.2	68
5	A Recursive Orthogonal Least Squares Algorithm for Training RBF Networks. Neural Processing Letters, 1997, 5, 167-176.	2.0	54
6	Fault Tolerant Control of Multivariable Processes Using Auto-Tuning PID Controller. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 32-43.	5.5	51
7	A bilinear fault detection observer and its application to a hydraulic drive system. International Journal of Control, 1996, 64, 1023-1047.	1.2	47
8	A stable self-learning PID control for multivariable time varying systems. Control Engineering Practice, 2007, 15, 1577-1587.	3.2	46
9	Automatic visual defects inspection of wind turbine blades via YOLO-based small object detection approach. Journal of Electronic Imaging, 2019, 28, 1.	0.5	40
10	Adaptive neural model-based fault tolerant control for multi-variable processes. Engineering Applications of Artificial Intelligence, 2005, 18, 393-411.	4.3	36
11	Fault detection and isolation for PEM fuel cell stack with independent RBF model. Engineering Applications of Artificial Intelligence, 2014, 28, 52-63.	4.3	35
12	Neural model input selection for a MIMO chemical process. Engineering Applications of Artificial Intelligence, 2000, 13, 15-23.	4.3	33
13	A New Development of Internal Combustion Engine Air-Fuel Ratio Control With Second-Order Sliding Mode. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 757-766.	0.9	29
14	Robust air/fuel ratio control with adaptive DRNN model and AD tuning. Engineering Applications of Artificial Intelligence, 2010, 23, 283-289.	4.3	29
15	Neural model adaptation and predictive control of a chemical process rig. IEEE Transactions on Control Systems Technology, 2006, 14, 828-840.	3.2	26
16	Air-fuel ratio prediction and NMPC for SI engines with modified Volterra model and RBF network. Engineering Applications of Artificial Intelligence, 2015, 45, 313-324.	4.3	22
17	An enhanced linear Kalman filter (EnLKF) algorithm for parameter estimation of nonlinear rational models. International Journal of Systems Science, 2017, 48, 451-461.	3.7	19
18	Adaptive air-fuel ratio control with MLP network. International Journal of Automation and Computing, 2005, 2, 125-133.	4.5	17

#	ARTICLE	IF	CITATIONS
19	Radial-basis-function-based feedforward feedback control for air-fuel ratio of spark ignition engines. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2008, 222, 415-428.	1.1	17
20	A new structure adaptation algorithm for RBF networks and its application. Neural Computing and Applications, 2006, 16, 91-100.	3.2	15
21	Neural network fault classification of transient data in an automotive engine air path. International Journal of Modelling, Identification and Control, 2008, 3, 148.	0.2	15
22	A bilinear fault detection filter. International Journal of Control, 1997, 68, 417-430.	1.2	14
23	PID controller tuning for a multivariable glass furnace process by genetic algorithm. International Journal of Automation and Computing, 2016, 13, 64-72.	4.5	14
24	Diagnosing simulated faults for an industrial furnace based on bilinear model. IEEE Transactions on Control Systems Technology, 2000, 8, 435-442.	3.2	13
25	Enhanced Neural Network Modelling for a Real Multi-variable Chemical Process. Neural Computing and Applications, 2002, 10, 289-299.	3.2	13
26	Modelling a variable valve timing spark ignition engine using different neural networks. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2004, 218, 1159-1171.	1.1	13
27	Order and delay selection for neural network modelling by identification of linearized models. International Journal of Systems Science, 2000, 31, 1273-1283.	3.7	12
28	Mission management and control of BSA-AUV for ocean survey. Ocean Engineering, 2012, 55, 161-174.	1.9	12
29	Extension of the parity-space method to fault diagnosis of bilinear systems. International Journal of Systems Science, 2001, 32, 953-962.	3.7	11
30	On-board monitoring and diagnosis for spark ignition engine air path via adaptive neural networks. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 1641-1655.	1.1	11
31	Dynamic fault detection and isolation for automotive engine air path by independent neural network model. International Journal of Engine Research, 2014, 15, 87-100.	1.4	11
32	Development of adaptive p-step RBF network model with recursive orthogonal least squares training. Neural Computing and Applications, 2018, 29, 1445-1454.	3.2	11
33	Automatic image detection of multi-type surface defects on wind turbine blades based on cascade deep learning network. Intelligent Data Analysis, 2021, 25, 463-482.	0.4	11
34	Neural network model adaptation and its application to process control. Advanced Engineering Informatics, 2004, 18, 1-8.	4.0	9
35	Adaptive neural network model based predictive control of an internal combustion engine with a new optimization algorithm. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 195-208.	1.1	9
36	Multi-rate model predictive control of a chemical reactor based on three neural models. Biochemical Engineering Journal, 2007, 37, 86-97.	1.8	9

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37	A simulation study on fault diagnosis of a high-temperature furnace using a bilinear observer method. <i>Control Engineering Practice</i> , 1996, 4, 1681-1691.	3.2	8
38	Fault tolerant control for nonlinear systems using sliding mode and adaptive neural network estimator. <i>Soft Computing</i> , 2020, 24, 11535-11544.	2.1	8
39	Robustness assessment and adaptive FDI for car engine. <i>International Journal of Automation and Computing</i> , 2008, 5, 109-118.	4.5	7
40	A Soft Sensor-Based Fault-Tolerant Control on the Air Fuel Ratio of Spark-Ignition Engines. <i>Energies</i> , 2017, 10, 131.	1.6	7
41	Adaptive Sliding Mode Control of Lateral Stability of Four Wheel Hub Electric Vehicles. <i>International Journal of Automotive Technology</i> , 2020, 21, 739-747.	0.7	7
42	A virtual force interaction scheme for multi-robot environment monitoring. <i>Robotics and Autonomous Systems</i> , 2022, 149, 103967.	3.0	7
43	A parity space method of fault detection for bilinear systems. , 0, , .		6
44	Development of a new automatic calibration method for control of variable valve timing. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2004, 218, 707-718.	1.1	6
45	On-line control for optimal ignition timing using the pseudolinear radial basis function and the local linear model tree. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2005, 219, 227-240.	1.1	6
46	Adaptive structure radial basis function network model for processes with operating region migration. <i>Neurocomputing</i> , 2015, 155, 186-193.	3.5	6
47	Robust fault diagnosis for an exothermic semi-batch polymerization reactor under open-loop. <i>Systems Science and Control Engineering</i> , 2015, 3, 14-23.	1.8	6
48	Neural network control of multivariable processes with a fast optimisation algorithm. <i>Neural Computing and Applications</i> , 2003, 12, 185-189.	3.2	5
49	Fault detection and isolation for PEMFC systems under closed-loop control. , 2012, , .		5
50	Factorized f -step radial basis function model for model predictive control. <i>Neurocomputing</i> , 2017, 239, 102-112.	3.5	5
51	An improved search space resizing method for model identification by standard genetic algorithm. <i>Systems Science and Control Engineering</i> , 2017, 5, 117-128.	1.8	5
52	The indirect shared steering control under double loop structure of driver and automation. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020, 7, 1403-1416.	8.5	5
53	The indirect shared steering control under double loop structure of driver and automation. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020, , 1-14.	8.5	5
54	A CEEMD Method for Diesel Engine Misfire Fault Diagnosis based on Vibration Signals. , 2020, , .		5

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55	Fault diagnosis for, a gas-fired furnace using bilinear observer method. , 0, , .		4
56	A linear parameter-varying radial basis function model and predictive control of a chemical reactor. International Journal of Systems Science, 2003, 34, 747-761.	3.7	4
57	A Localized Forgetting Method for Gaussian RBFN Model Adaptation. Neural Processing Letters, 2004, 20, 125-135.	2.0	4
58	Adaptation of diagonal recurrent neural network model. Neural Computing and Applications, 2005, 14, 189-197.	3.2	3
59	An Application of Second-Order Sliding Mode Control for IC Engine Fuel Injection. , 2006, , .		3
60	Research on response characteristics and parameters optimization of high-speed solenoid valve. , 2015, , .		3
61	Modified Volterra model-based non-linear model predictive control of IC engines with real-time simulations. Transactions of the Institute of Measurement and Control, 2017, 39, 208-223.	1.1	3
62	Fault detection observer of a pilot plant papermaking machine. , 2017, , .		3
63	Fault diagnosis for wind turbine systems using unknown input observer. , 2019, , .		3
64	A new fault diagnosis and fault-tolerant control method for mechanical and aeronautical systems with neural estimators. Advances in Mechanical Engineering, 2019, 11, 168781401989165.	0.8	3
65	Dynamic Particle Swarm Optimization with Any Irregular Initial Small-World Topology. International Journal of Swarm Intelligence Research, 2015, 6, 1-23.	0.5	3
66	Fault detection for bilinear systems with application to a hydraulic system. , 1994, , .		2
67	Robust fault detection for wind turbine systems. , 2014, , .		2
68	Online fault diagnosis of fuel cell systems using independent MLP neural network model. , 2014, , .		2
69	Computational Intelligence in Data-Driven Modelling and Its Engineering Applications. Mathematical Problems in Engineering, 2018, 2018, 1-2.	0.6	2
70	Failure Prediction for an Exothermic Semi-batch Reactor via A combined EKF with Statistical Method. , 2018, , .		2
71	Driving Lane Change Intent Recognition Based on Vehicle Exterior Environment Variables. , 2018, , .		2
72	Distributed Formation Control for Multi-Vehicle Systems with Splitting and Merging Capability. , 2020, , 1-1.		2

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73	Pitch angle control with fault diagnosis and tolerance for wind turbine generation systems. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 1355-1366.	0.7	2
74	A New Concept of Fractional Order Cumulant and It-Based Signal Processing in $\hat{\pm}$ and/or Gaussian Noise. IEEE Transactions on Information Theory, 2021, 67, 1849-1863.	1.5	2
75	A two-layer modelling framework for predicting passenger flow on trains: A case study of London underground trains. Transportation Research, Part A: Policy and Practice, 2021, 151, 119-139.	2.0	2
76	A comparison study on a chemical reactor modelling with a physical model and PLRBF networks. Engineering Applications of Artificial Intelligence, 2003, 16, 629-645.	4.3	1
77	Detecting Sensor Faults for a Chemical Reactor Rig via Adaptive Neural Network Model. Lecture Notes in Computer Science, 2005, , 544-549.	1.0	1
78	Comparison study of different non-linear feed-forward controllers for oxygen starvation control of PEM fuel cell stacks. International Journal of Modelling, Identification and Control, 2013, 19, 352.	0.2	1
79	Nonlinear system identification and control of a pH process using Local Linear Model Networks strategy. , 2014, , .		1
80	Decentralised PID control tuning for a multivariable glass furnace by genetic algorithm. , 2014, , .		1
81	An improved search space resizing method for model identification by Standard Genetic Algorithm. , 2015, , .		1
82	Investigating the capability of precision in robotic grinding. , 2017, , .		1
83	Fault diagnosis for wind turbine systems using a neural network estimator. , 2019, , .		1
84	MPC Control method of vehicle longitudinal collision avoidance based on hierarchical control. , 2020, , .		1
85	Robust visual-inertial odometry with point and line features for blade inspection UAV. Industrial Robot, 2021, 48, 179-188.	1.2	1
86	Friction fault diagnosis and fault tolerant control for electronic throttles with sliding mode and adaptive RBF estimator. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 1605-1614.	0.7	1
87	A Neural Network Model Based MPC of Engine AFR with Single-Dimensional Optimization. Lecture Notes in Computer Science, 2007, , 339-348.	1.0	1
88	Comparative Study on Engine Torque Modelling Using Different Neural Networks. Lecture Notes in Computer Science, 2005, , 865-870.	1.0	0
89	Fault Tolerant Control of Nonlinear Processes with Adaptive Diagonal Recurrent Neural Network Model. Lecture Notes in Computer Science, 2005, , 86-91.	1.0	0
90	Adaptive feed-forward and feedback control using neural networks for oxygen ratio in fuel cell stacks. , 2011, , .		0

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91	Residual generation for fault detection of internal combustion engine. , 2011, , .		0
92	On-board monitoring of air path for automotive IC engines. International Journal of Modelling, Identification and Control, 2013, 20, 1.	0.2	0
93	Comparison of RBF and local linear model networks for nonlinear identification of a pH process. , 2014, , .		0
94	Predetermined time constant approximation method for optimising search space boundary by standard genetic algorithm. , 2015, , .		0
95	Model parameters identification for excess oxygen by Standard Genetic Algorithm. , 2016, , .		0
96	Decentralised PI Controller Design and Tuning Approaches. , 2017, , .		0
97	Intelligent monitoring, diagnosis and control in mechanical engineering. Advances in Mechanical Engineering, 2018, 10, 168781401881211.	0.8	0
98	A Virtual Force Interaction Scheme for Monitoring Complex Unknown Environments by Autonomous Mobile Robots. , 2019, , .		0
99	Fault Tolerant Control of Electronic Throttles with Friction Changes. Electronics (Switzerland), 2019, 8, 918.	1.8	0
100	Dynamic Particle Swarm Optimization with Any Irregular Initial Small-World Topology. , 2017, , 1185-1208.		0
101	Nonlinear Observer Fault Detection for a Multivariable Process Using a Learning Methodology. , 2018, , .		0