Ding-Li Yu

List of Publications by Year
in descending order

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	A virtual force interaction scheme for multi-robot environment monitoring. Robotics and Autonomous Systems, 2022, 149, 103967.	3.0	7
2	Robust visual-inertial odometry with point and line features for blade inspection UAV. Industrial Robot, 2021, 48, 179-188.	1.2	1
3	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
4	A New Concept of Fractional Order Cumulant and It-Based Signal Processing in α and/or Gaussian Noise. IEEE Transactions on Information Theory, 2021, 67, 1849-1863.	1.5	2
5	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
6	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
7	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
8	The indirect shared steering control under double loop structure of driver and automation. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1403-1416.	8.5	5
9	Fault tolerant control for nonlinear systems using sliding mode and adaptive neural network estimator. Soft Computing, 2020, 24, 11535-11544.	2.1	8
10	MPC Control method of vehicle longitudinal collision avoidance based on hierarchical control. , 2020, , .		1
11	Adaptive Sliding Mode Control of Lateral Stability of Four Wheel Hub Electric Vehicles. International Journal of Automotive Technology, 2020, 21, 739-747.	0.7	7
12	Distributed Formation Control for Multi-Vehicle Systems with Splitting and Merging Capability. , 2020, , 1-1.		2
13	The indirect shared steering control under double loop structure of driver and automation. IEEE/CAA Journal of Automatica Sinica, 2020, , 1-14.	8.5	5
14	A CEEMD Method for Diesel Engine Misfire Fault Diagnosis based on Vibration Signals. , 2020, , .		5
15	A Virtual Force Interaction Scheme for Monitoring Complex Unknown Environments by Autonomous Mobile Robots. , 2019, , .		0
16	Fault Tolerant Control of Electronic Throttles with Friction Changes. Electronics (Switzerland), 2019, 8, 918.	1.8	0
17	Fault diagnosis for wind turbine systems using a neural network estimator. , 2019, , .		1
18	Fault diagnosis for wind turbine systems using unknown input observer. , 2019, , .		3

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19	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
20	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
21	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
22	Computational Intelligence in Data-Driven Modelling and Its Engineering Applications. Mathematical Problems in Engineering, 2018, 2018, 1-2.	0.6	2
23	Failure Prediction for an Exothermic Semi-batch Reactor via A combined EKF with Statistical Method. , 2018, , .		2
24	Driving Lane Change Intent Recognition Based on Vehicle Exterior Environment Variables. , 2018, , .		2
25	Intelligent monitoring, diagnosis and control in mechanical engineering. Advances in Mechanical Engineering, 2018, 10, 168781401881211.	0.8	0
26	Nonlinear Observer Fault Detection for a Multivariable Process Using a Learning Methodology. , 2018, , .		0
27	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
28	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
29	Factorized f-step radial basis function model for model predictive control. Neurocomputing, 2017, 239, 102-112.	3.5	5
30	Fault detection observer of a pilot plant papermaking machine. , 2017, , .		3
31	An improved search space resizing method for model identification by standard genetic algorithm. Systems Science and Control Engineering, 2017, 5, 117-128.	1.8	5
32	Investigating the capability of precision in robotic grinding. , 2017, , .		1
33	A Soft Sensor-Based Fault-Tolerant Control on the Air Fuel Ratio of Spark-Ignition Engines. Energies, 2017, 10, 131.	1.6	7
34	Decentralised PI Controller Design and Tuning Approaches. , 2017, , .		0
35	Dynamic Particle Swarm Optimization with Any Irregular Initial Small-World Topology. , 2017, , 1185-1208.		0
36	Model parameters identification for excess oxygen by Standard Genetic Algorithm. , 2016, , .		0

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37	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
38	Predetermined time constant approximation method for optimising search space boundary by standard genetic algorithm. , 2015, , .		0
39	An improved search space resizing method for model identification by Standard Genetic Algorithm. , 2015, , .		1
40	Adaptive structure radial basis function network model for processes with operating region migration. Neurocomputing, 2015, 155, 186-193.	3.5	6
41	Robust fault diagnosis for an exothermic semi-batch polymerization reactor under open-loop. Systems Science and Control Engineering, 2015, 3, 14-23.	1.8	6
42	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
43	Research on response characteristics and parameters optimization of high-speed solenoid valve. , 2015, , .		3
44	Dynamic Particle Swarm Optimization with Any Irregular Initial Small-World Topology. International Journal of Swarm Intelligence Research, 2015, 6, 1-23.	0.5	3
45	Robust fault detection for wind turbine systems. , 2014, , .		2
46	Nonlinear system identification and control of a pH process using Local Linear Model Networks strategy. , 2014, , .		1
47	Decentralised PID control tuning for a multivariable glass furnace by genetic algorithm. , 2014, , .		1
48	Online fault diagnosis of fuel cell systems using independent MLP neural network model. , 2014, , .		2
49	Comparison of RBF and local linear model networks for nonlinear identification of a pH process. , 2014, , .		0
50	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
51	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
52	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
53	On-board monitoring of air path for automotive IC engines. International Journal of Modelling, Identification and Control, 2013, 20, 1.	0.2	0
54	Fault detection and isolation for PEMFC systems under closed-loop control. , 2012, , .		5

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55	Mission management and control of BSA-AUV for ocean survey. Ocean Engineering, 2012, 55, 161-174.	1.9	12
56	Adaptive feed-forward and feedback control using neural networks for oxygen ratio in fuel cell stacks. , 2011, , .		0
57	Residual generation for fault detection of internal combustion engine. , 2011, , .		0
58	Robust air/fuel ratio control with adaptive DRNN model and AD tuning. Engineering Applications of Artificial Intelligence, 2010, 23, 283-289.	4.3	29
59	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
60	Robustness assessment and adaptive FDI for car engine. International Journal of Automation and Computing, 2008, 5, 109-118.	4.5	7
61	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
62	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
63	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
64	Multi-rate model predictive control of a chemical reactor based on three neural models. Biochemical Engineering Journal, 2007, 37, 86-97.	1.8	9
65	A stable self-learning PID control for multivariable time varying systems. Control Engineering Practice, 2007, 15, 1577-1587.	3.2	46
66	A Neural Network Model Based MPC of Engine AFR with Single-Dimensional Optimization. Lecture Notes in Computer Science, 2007, , 339-348.	1.0	1
67	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
68	Neural model adaptation and predictive control of a chemical process rig. IEEE Transactions on Control Systems Technology, 2006, 14, 828-840.	3.2	26
69	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
70	A new structure adaptation algorithm for RBF networks and its application. Neural Computing and Applications, 2006, 16, 91-100.	3.2	15
71	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
72	An Application of Second-Order Sliding Mode Control for IC Engine Fuel Injection. , 2006, , .		3

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73	Adaptive neural model-based fault tolerant control for multi-variable processes. Engineering Applications of Artificial Intelligence, 2005, 18, 393-411.	4.3	36
74	Adaptation of diagonal recurrent neural network model. Neural Computing and Applications, 2005, 14, 189-197.	3.2	3
75	Adaptive air-fuel ratio control with MLP network. International Journal of Automation and Computing, 2005, 2, 125-133.	4.5	17
76	Comparative Study on Engine Torque Modelling Using Different Neural Networks. Lecture Notes in Computer Science, 2005, , 865-870.	1.0	0
77	Fault Tolerant Control of Nonlinear Processes with Adaptive Diagonal Recurrent Neural Network Model. Lecture Notes in Computer Science, 2005, , 86-91.	1.0	0
78	On-line control for optimal ignition timing using the pseudolinear radial basis function and the local linear model tree. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2005, 219, 227-240.	1.1	6
79	Detecting Sensor Faults for a Chemical Reactor Rig via Adaptive Neural Network Model. Lecture Notes in Computer Science, 2005, , 544-549.	1.0	1
80	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
81	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
82	Development of a new automatic calibration method for control of variable valve timing. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2004, 218, 707-718.	1.1	6
83	Neural network model adaptation and its application to process control. Advanced Engineering Informatics, 2004, 18, 1-8.	4.0	9
84	A Localized Forgetting Method for Gaussian RBFN Model Adaptation. Neural Processing Letters, 2004, 20, 125-135.	2.0	4
85	Neural network control of multivariable processes with a fast optimisation algorithm. Neural Computing and Applications, 2003, 12, 185-189.	3.2	5
86	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
87	Implementation of neural network predictive control to a multivariable chemical reactor. Control Engineering Practice, 2003, 11, 1315-1323.	3.2	78
88	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
89	Enhanced Neural Network Modelling for a Real Multi-variable Chemical Process. Neural Computing and Applications, 2002, 10, 289-299.	3.2	13
90	Extension of the parity-space method to fault diagnosis of bilinear systems. International Journal of Systems Science, 2001, 32, 953-962.	3.7	11

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91	Neural model input selection for a MIMO chemical process. Engineering Applications of Artificial Intelligence, 2000, 13, 15-23.	4.3	33
92	Diagnosing simulated faults for an industrial furnace based on bilinear model. IEEE Transactions on Control Systems Technology, 2000, 8, 435-442.	3.2	13
93	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
94	Sensor fault diagnosis in a chemical process via RBF neural networks. Control Engineering Practice, 1999, 7, 49-55.	3.2	68
95	A bilinear fault detection filter. International Journal of Control, 1997, 68, 417-430.	1.2	14
96	A Recursive Orthogonal Least Squares Algorithm for Training RBF Networks. Neural Processing Letters, 1997, 5, 167-176.	2.0	54
97	A simulation study on fault diagnosis of a high-temperature furnace using a bilinear observer method. Control Engineering Practice, 1996, 4, 1681-1691.	3.2	8
98	A bilinear fault detection observer and its application to a hydraulic drive system. International Journal of Control, 1996, 64, 1023-1047.	1.2	47
99	Fault detection for bilinear systems with application to a hydraulic system. , 1994, , .		2
100	Fault diagnosis for, a gas-fired furnace using bilinear observer method. , 0, , .		4
101	A parity space method of fault detection for bilinear systems. , 0, , .		6