

Dingyu Xue

List of Publications by Year in descending order

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94
papers

1,643
citations

471371

17
h-index

434063

31
g-index

94
all docs

94
docs citations

94
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical Tuning Rule Development for Fractional Order Proportional and Integral Controllers. <i>Journal of Computational and Nonlinear Dynamics</i> , 2008, 3, .	0.7	158
2	A Modified Approximation Method of Fractional Order System. , 2006, , .		151
3	A review and evaluation of numerical tools for fractional calculus and fractional order controls. <i>International Journal of Control</i> , 2017, 90, 1165-1181.	1.2	123
4	A fractional order PID tuning algorithm for a class of fractional order plants. , 0, , .		99
5	Fractional order PID control of a DC-motor with elastic shaft: a case study. , 2006, , .		91
6	A comparative introduction of four fractional order controllers. , 0, , .		82
7	Digital Fractional Order Savitzky-Golay Differentiator. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2011, 58, 758-762.	2.2	78
8	Variable-order fuzzy fractional PID controller. <i>ISA Transactions</i> , 2015, 55, 227-233.	3.1	75
9	A Review of Industrial MIMO Decoupling Control. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 1246-1254.	1.6	63
10	Continuous fractional-order grey model and electricity prediction research based on the observation error feedback. <i>Energy</i> , 2016, 115, 722-733.	4.5	59
11	General robustness analysis and robust fractional-order PD controller design for fractional-order plants. <i>IET Control Theory and Applications</i> , 2018, 12, 1730-1736.	1.2	38
12	Fractional Calculus and Biomimetic Control. , 0, , .		37
13	Industrial feedforward control technology: a review. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 2819-2833.	4.4	37
14	1-D and 2-D digital fractional-order Savitzky-Golay differentiator. <i>Signal, Image and Video Processing</i> , 2012, 6, 503-511.	1.7	33
15	Fractional-order TV-L2 model for image denoising. <i>Open Physics</i> , 2013, 11, .	0.8	32
16	Design of an optimal fractional-order PID controller using multi-objective GA optimization. , 2009, , .		29
17	Fractional-Order Total Variation Image Restoration Based on Primal-Dual Algorithm. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-10.	0.3	29
18	Continuous fractional-order Zero Phase Error Tracking Control. <i>ISA Transactions</i> , 2018, 75, 226-235.	3.1	26

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19	Robust stability analysis for fractional-order systems with time delay based on finite spectrum assignment. International Journal of Robust and Nonlinear Control, 2019, 29, 2283-2295.	2.1	25
20	Automatic Diabetic Retinopathy Grading via Self-Knowledge Distillation. Electronics (Switzerland), 2020, 9, 1337.	1.8	24
21	Stability and Resonance Analysis of a General Non-Commensurate Elementary Fractional-Order System. Fractional Calculus and Applied Analysis, 2020, 23, 183-210.	1.2	21
22	A New Approximation Algorithm of Fractional Order System Models Based Optimization. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	19
23	Numerical algorithms for Caputo fractional-order differential equations. International Journal of Control, 2017, 90, 1201-1211.	1.2	19
24	An actual load forecasting methodology by interval grey modeling based on the fractional calculus. ISA Transactions, 2018, 82, 200-209.	3.1	19
25	Stabilization of Discrete-Time Markovian Jump Systems via Controllers with Partially Mode-Dependent Characterization. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	17
26	Retinal blood vessels semantic segmentation method based on modified U-Net. , 2018, , .		17
27	Closed-form solutions to fractional-order linear differential equations. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2008, 3, 214-217.	0.6	16
28	EHANet: An Effective Hierarchical Aggregation Network for Face Parsing. Applied Sciences (Switzerland), 2020, 10, 3135.	1.3	16
29	A fractional-order regulatory CV model for brain MR image segmentation. , 2013, , .		14
30	Universal block diagram based modeling and simulation schemes for fractional-order control systems. ISA Transactions, 2018, 82, 153-162.	3.1	14
31	An approach to design controllers for MIMO fractional-order plants based on parameter optimization algorithm. ISA Transactions, 2018, 82, 145-152.	3.1	12
32	General type industrial temperature system control based on fuzzy fractional-order PID controller. Complex & Intelligent Systems, 0, , 1.	4.0	12
33	A Fast Mosaic Approach for Remote Sensing Images. , 2007, , .		11
34	Benchmark problems for Caputo fractional-order ordinary differential equations. Fractional Calculus and Applied Analysis, 2017, 20, 1305-1312.	1.2	11
35	A MATLAB toolbox for multivariable linear fractional-order control systems. , 2017, , .		9
36	Observer-based robust control for singular switched fractional order systems subject to actuator saturation. Applied Mathematics and Computation, 2021, 411, 126538.	1.4	8

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37	Dynamic analysis and optimal control for a fractional-order delayed SIR epidemic model with saturated treatment. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	8
38	Modeling and control with hysteresis and creep of ionic polymer-metal composite (IPMC) actuators. , 2008, , .		7
39	Automatic loop shaping in fractional-order QFT controllers using particle swarm optimization. , 2009, , .		7
40	Variable-order fuzzy fractional PID controllers for networked control systems. , 2015, , .		7
41	A conformable fractional unbiased grey model with a flexible structure and its application in hydroelectricity consumption prediction. <i>Journal of Cleaner Production</i> , 2022, 367, 133029.	4.6	5
42	A new algorithm for multiple-source localization based On acoustic energy in wireless sensor networks. , 2009, , .		4
43	An approximation algorithm of fractional order pole models based on an optimization process. , 2010, , .		4
44	Adaptive image enhancement based on fractional differential mask. , 2012, , .		4
45	Compensation for network data dropouts based on modified fractional-order Kalman filter. , 2015, , .		4
46	A Special Issue in ISA Transactions "Fractional Order Signals, Systems, and Controls: Theory and Application" ISA Transactions, 2018, 82, 1.	3.1	4
47	Survey of weakly supervised semantic segmentation methods. , 2018, , .		4
48	A novel fractional discrete grey model with an adaptive structure and its application in electricity consumption prediction. <i>Kybernetes</i> , 2022, 51, 3095-3120.	1.2	4
49	Synthesised fractional-order PD controller design for fractional-order time-delay systems based on improved robust stability surface analysis. <i>IET Control Theory and Applications</i> , 2020, 14, 3723-3730.	1.2	4
50	A Survey of Extrinsic Parameters Calibration Techniques for Autonomous Devices. , 2021, , .		4
51	Output Consensus for Fuzzy Singular Multi-Agent Fractional Order Systems With Actuator Saturation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 3465-3469.	2.2	4
52	A Modified Smith Predictor Controller for Integrating Processes with Long Dead-Time. , 2006, , .		3
53	An Improved Median Filter Based on Automatic Parameter Tuning Approach. , 2007, , .		3
54	Modeling and simulation of a nonlinear system under networks. , 2008, , .		3

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55	Research of nodes deployment for wireless sensor network in deterministic area. , 2009, , .		3
56	Design of a new fractional-order QFT controller based on automatic loop shaping. , 2010, , .		3
57	Weakly supervised retinal vessel segmentation algorithm without groundtruth. Electronics Letters, 2020, 56, 1235-1237.	0.5	3
58	A Novel Fuzzy Model-Reference Adaptive Control. , 2006, , .		2
59	Design and implementation of rotary inverted pendulum motion control hardware-in-the-loop simulation platform. , 2010, , .		2
60	QFT fractional order robust controller for non-minimum phase hydro power plant. , 2012, , .		2
61	The benchmark problems for the assessment of numerical algorithms on fractional-order differential equations. , 2017, , .		2
62	An optic disk semantic segmentation method based on weakly supervised learning. , 2020, , .		2
63	Fractional-order delayed Ross-Macdonald model for malaria transmission. Nonlinear Dynamics, 2022, 107, 3155-3173.	2.7	2
64	Research on Occlusion in the Multiple Vehicle Detecting and Tracking System. , 2006, , .		1
65	Modeling and simulation of two inverted pendulums coupled by a spring under networks. , 2008, , .		1
66	Design of Control System for Mobile Robot Based on DSP Processor. , 2008, , .		1
67	Conserved secondary structure prediction for similar highly group of related RNA sequences. , 2009, , .		1
68	Research of Portable Information Terminal Based on MIPS Processor and Windows CE. , 2009, , .		1
69	An algorithm of adaptive iterative learning control based on process models. , 2010, , .		1
70	Modeling and control of IPMC for micro-manipulation. , 2010, , .		1
71	Robust fractional order differentiator. , 2012, , .		1
72	Fractional order QFT controller for non-minimum phase hydro power plant. , 2012, , .		1

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73	Image magnification using fractional order level set reconstruction. , 2013, , .		1
74	Target tracking control and semi-physical simulation of Qball-X4 quad-rotor unmanned aerial vehicle. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668695.	1.3	1
75	Grey differential system and control problems based on the fractional calculus. , 2017, , .		1
76	The Hopf bifurcation analysis in a delayed fractional SIR epidemic model. , 2018, , .		1
77	A Novel Fractional-order Discrete Grey Model with Initial Condition Optimization and Its Application. , 2021, , .		1
78	Numerical Algorithm for Calculating the Time Domain Response of Fractional Order Transfer Function. Fractal and Fractional, 2022, 6, 122.	1.6	1
79	An adaptive fuzzy approach for robot motion control. , 0, , .		0
80	Computer Simulation of Radiotherapy Dose Distribution in Tissue. , 2006, , .		0
81	Research of an Omni-Directional Wall-Climbing Robot. , 2006, , .		0
82	Dynamic Model of a 3 DOF Direct Drive Robot and Its Control Mode. , 2007, , .		0
83	Application of neural network in dose calculation of radiotherapy. , 2008, , .		0
84	Design of QFT fractional order robust controller for non-minimum phase and unstable plants. , 2012, , .		0
85	Design of fractional-order QFT controllers for unstable plants based on automatic loop shaping. , 2012, , .		0
86	Fractional-Order Controller Design for Oscillatory Fractional Time-Delay Systems Based on the Numerical Inverse Laplace Transform Algorithms. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	0
87	Stability analysis of a fractional-order vector-bias model on malaria transmission. , 2019, , .		0
88	Hybrid Gray Model Based on Fractional order Gray Model and Verhulst model. , 2019, , .		0
89	Geometric Interpretation for Riemannâ€“Liouville Fractional-Order Integral. , 2020, , .		0
90	A Novel Discrete Grey Model with Fractional Accumulating Operators and Optimal Initial Condition and Its Application. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
91	Stability analysis of a fractional-order delay Logistic model with feedback control. , 2020, , .		0
92	Stabilization of a class of Takagi-Sugeno fuzzy fractional order systems based on fuzzy controller switching. , 2021, , .		0
93	Optic Disc and Fovea Localization based on Anatomical Constraints and Heatmaps Regression. , 2021, , .		0
94	The optimum fractional-order modeling and controlling for Ion-exchange Polymer-Metal Composite drive. , 2021, , .		0