

Nusret Tan

List of Publications by Year in descending order

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84
papers

1,540
citations

448610

19
h-index

371746

37
g-index

84
all docs

84
docs citations

84
times ranked

816
citing authors

#	ARTICLE	IF	CITATIONS
1	Computation of stabilizing PI and PID controllers using the stability boundary locus. Energy Conversion and Management, 2006, 47, 3045-3058.	4.4	211
2	Note on fractional-order proportional+integral differential controller design. IET Control Theory and Applications, 2011, 5, 1978-1989.	1.2	132
3	Robust stability analysis of fractional order interval polynomials. ISA Transactions, 2009, 48, 166-172.	3.1	125
4	Computation of stabilizing PI and PID controllers for processes with time delay. ISA Transactions, 2005, 44, 213-223.	3.1	109
5	Improved cascade control structure for enhanced performance. Journal of Process Control, 2007, 17, 3-16.	1.7	81
6	Design of PI controllers for achieving time and frequency domain specifications simultaneously. ISA Transactions, 2006, 45, 529-543.	3.1	55
7	An integer order approximation method based on stability boundary locus for fractional order derivative/integrator operators. ISA Transactions, 2016, 62, 154-163.	3.1	50
8	Computation of stabilizing PI-PD controllers. International Journal of Control, Automation and Systems, 2009, 7, 175-184.	1.6	45
9	Disturbance rejection performance analyses of closed loop control systems by reference to disturbance ratio. ISA Transactions, 2015, 55, 63-71.	3.1	45
10	Classical controller design techniques for fractional order case. ISA Transactions, 2011, 50, 461-472.	3.1	44
11	A refinement procedure for PID controllers. Electrical Engineering, 2006, 88, 215-221.	1.2	41
12	Methods for computing the time response of fractional-order systems. IET Control Theory and Applications, 2015, 9, 817-830.	1.2	35
13	Revisiting four approximation methods for fractional order transfer function implementations: Stability preservation, time and frequency response matching analyses. Annual Reviews in Control, 2020, 49, 239-257.	4.4	33
14	Design of stabilizing PI and PID controllers. International Journal of Systems Science, 2006, 37, 543-554.	3.7	31
15	Implicit disturbance rejection performance analysis of closed loop control systems according to communication channel limitations. IET Control Theory and Applications, 2015, 9, 2522-2531.	1.2	31
16	Frequency response of uncertain systems: a 2q-convex parpolygonal approach. IET Control Theory and Applications, 2000, 147, 547-555.	1.7	28
17	PID Tuning Method for Integrating Processes Having Time Delay and Inverse Response. IFAC-PapersOnLine, 2018, 51, 274-279.	0.5	25
18	Stability and performance analysis in an uncertain world. Computing & Control Engineering Journal, 2000, 11, 91-101.	0.0	23

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19	Frequency response computation of fractional order interval transfer functions. International Journal of Control, Automation and Systems, 2010, 8, 1009-1017.	1.6	23
20	PI&PD controller design for time delay systems via the weighted geometrical center method. Asian Journal of Control, 2020, 22, 1811-1826.	1.9	23
21	Computation of the frequency response of multilinear affine systems. IEEE Transactions on Automatic Control, 2002, 47, 1691-1696.	3.6	19
22	Fractional Order PI Controller Design for Time Delay Systems. IFAC-PapersOnLine, 2016, 49, 94-99.	0.5	19
23	A New Integer Order Approximation Table for Fractional Order Derivative Operators. IFAC-PapersOnLine, 2017, 50, 9736-9741.	0.5	18
24	Design of PI Controller using Optimization Method in Fractional Order Control Systems. IFAC-PapersOnLine, 2018, 51, 841-846.	0.5	18
25	Computation of stabilizing Lag/Lead controller parameters. Computers and Electrical Engineering, 2003, 29, 835-849.	3.0	16
26	Stability region analysis in Smith predictor configurations using a PI controller. Transactions of the Institute of Measurement and Control, 2015, 37, 606-614.	1.1	15
27	Tuning of Fractional Order PID Controllers Based on Integral Performance Criteria Using Fourier Series Method. IFAC-PapersOnLine, 2017, 50, 8561-8566.	0.5	14
28	Robust phase margin, robust gain margin and Nyquist envelope of an interval plant family. Computers and Electrical Engineering, 2004, 30, 153-165.	3.0	13
29	Design of PI and PID Controllers for Fractional Order Time Delay Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 355-360.	0.4	13
30	Robust fuzzy sliding mode control for air supply on PEM fuel cell system. International Journal of Modelling, Identification and Control, 2018, 29, 341.	0.2	13
31	Limit Cycles in Nonlinear Systems with Fractional Order Plants. Machines, 2014, 2, 176-201.	1.2	12
32	Design of fractional-order PI controllers for disturbance rejection using RDR measure. , 2014, , .		12
33	Electronic realisation technique for fractional order integrators. Journal of Engineering, 2020, 2020, 157-167.	0.6	11
34	A GRAPHICAL METHOD FOR COMPUTATION OF ALL STABILIZING PI CONTROLLERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 349-354.	0.4	9
35	Application of fractional-order voltage controller in building-integrated photovoltaic and wind turbine system. Measurement and Control, 2019, 52, 1145-1158.	0.9	7
36	Magnitude and phase envelopes of systems with affine linear uncertainty. , 1998, , .		7

#	ARTICLE	IF	CITATIONS
37	New approach to assessing the effects of parametric variations in feedback loops. IET Control Theory and Applications, 2003, 150, 101-111.	1.7	6
38	Limit Cycle Prediction for Fractional Order Systems with Static Nonlinearities. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 144-149.	0.4	6
39	PID controller design based on second order model approximation by using stability boundary locus fitting. , 2015, , .		6
40	A Model Identification Method for Tuning of PID Controller in a Smith Predictor Structure. IFAC-PapersOnLine, 2016, 49, 13-18.	0.5	6
41	Practical Tuning Algorithm of PD $\hat{\mu}$ Controller for Processes with Time Delay. IFAC-PapersOnLine, 2017, 50, 9230-9235.	0.5	6
42	Lead and lag controller design in fractional-order control systems. Measurement and Control, 2019, 52, 1017-1028.	0.9	6
43	Absolute stability problem of systems with parametric uncertainties. , 1999, , .		5
44	DESIGN OF ROBUST CONTROLLERS FOR UNCERTAIN TRANSFER FUNCTIONS IN FACTORED FORM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 277-282.	0.4	5
45	Improved Cascade Control Structure and Controller Design. , 0, , .		5
46	Analysis of fractional order polynomials using Hermite-Biehler theorem. , 2014, , .		5
47	Computation of limit cycles in nonlinear feedback loops with fractional order plants. , 2014, , .		5
48	A User Friendly Toolbox for the Analysis of Interval Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 501-506.	0.4	4
49	Development of a toolbox for frequency response analysis of fractional order control systems. , 2009, , .		4
50	Computing step and impulse responses of closed loop fractional order time delay control systems using frequency response data. International Journal of Dynamics and Control, 2017, 5, 30-39.	1.5	4
51	Inverse Laplace Transforms of the Fractional Order Transfer Functions. , 2019, , .		4
52	Derivation of Analytical Inverse Laplace Transform for Fractional Order Integrator. Journal of Applied Nonlinear Dynamics, 2017, 6, 303-314.	0.1	4
53	Tuning of PI-PD Controller Based on Standard Forms for Fractional Order Systems. Journal of Applied Nonlinear Dynamics, 2018, 8, 5-23.	0.1	4
54	An experimental analog circuit realization of Matsuda's approximate fractional-order integral operators for industrial electronics. Engineering Research Express, 0, , .	0.8	4

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55	Describing function analysis of nonlinear discrete interval systems. , 1999, , .		3
56	Systems with Variable Parameters; Classical Control Extensions for Undergraduates. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 249-254.	0.4	3
57	Integer order approximation of fractional order systems. , 2010, , .		3
58	Obtaining the time response of control systems with fractional order PID from frequency responses. , 2015, , .		3
59	Time Response Computation of Control Systems with Fractional Order Lag or Lead Controller. , 2015, , .		3
60	Analysis of Output Voltage Harmonics of Voltage Source Inverter used PI and PID Controllers Optimized with ITAE Performance Criteria. ITM Web of Conferences, 2017, 13, 01033.	0.4	3
61	Decoupling control of a twin rotor MIMO system using optimization method. , 2019, , .		3
62	On the approximate inverse Laplace transform of the transfer function with a single fractional order. Transactions of the Institute of Measurement and Control, 2021, 43, 1376-1384.	1.1	3
63	Nyquist Envelope of Fractional Order Transfer Functions with Parametric Uncertainty. , 2010, , 487-494.		3
64	Controller synthesis technique for systems with affine linear uncertainty. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 3331-3336.	0.4	2
65	SOME RESULTS ON CONTROL SYSTEMS WITH MIXED PERTURBATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 163-168.	0.4	2
66	Robustness analysis of control systems with mixed perturbations. Transactions of the Institute of Measurement and Control, 2003, 25, 163-184.	1.1	2
67	Estimating the time response of control systems with fractional order PI from frequency response. , 2015, , .		2
68	IIR filter design based on LabVIEW. , 2015, , .		2
69	PI-PD Controllers Design Using Bode's Ideal Transfer Function. SSRN Electronic Journal, 0, , .	0.4	2
70	Limit cycles in relay systems with fractional order plants. Transactions of the Institute of Measurement and Control, 2019, 41, 4424-4435.	1.1	2
71	STABILITY MARGIN COMPUTATION FOR NONLINEAR SYSTEMS: A PARAMETRIC APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 55-60.	0.4	1
72	Root-Locus Analysis of Fractional Order Transfer Functions Using LabVIEW: An Interactive Application. , 2018, , .		1

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73	An interactive design strategy for fractional order PI controllers in LabVIEW. International Journal of Modelling, Identification and Control, 2018, 29, 304.	0.2	1
74	An interactive design strategy for fractional order PI controllers in LabVIEW. International Journal of Modelling, Identification and Control, 2018, 29, 304.	0.2	1
75	Extensions of Classical Methods to Uncertain Systems: An Educational Perspective. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 305-310.	0.4	0
76	Computation of stabilizing PI parameters for vehicle suspension system using the stability boundary locus. , 0, , .		0
77	Effect of Dielectric Barrier Discharge on the Sorption Properties of Disperse Porous Materials in CO ₂ and SF ₆ Silicagel Systems. Industrial & Engineering Chemistry Research, 2007, 46, 4468-4473.	1.8	0
78	Author's reply: A comment on the "Robust stability analysis of fractional order interval polynomials" by Nusret Tan et al.. ISA Transactions, 2011, 50, 12.	3.1	0
79	Effect of shunt capacitors on power systems containing renewable energy resources. , 2015, , .		0
80	Design of phase lead and phase lag filters for fractional order systems. , 2015, , .		0
81	Advances in Control Theory and Applications: Selected papers from TOK 2013. Transactions of the Institute of Measurement and Control, 2015, 37, 579-581.	1.1	0
82	Analysis of PFC and THD with the boost converter. , 2015, , .		0
83	Bode envelopes of multilinear affine systems. , 2001, , .		0
84	PI-PD Denetleyicisi ile Fotovoltaik ve Rüzgar Türbini Entegre Bina Sisteminde Gerilim Kontrolü. European Journal of Science and Technology, 0, , 992-1003.	0.5	0