

Nusret Tan

List of Publications by Year in descending order

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84
papers

1,540
citations

394421
19
h-index

330143
37
g-index

84
all docs

84
docs citations

84
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.7	3
2	PI&PD controller design for time delay systems via the weighted geometrical center method. Asian Journal of Control, 2020, 22, 1811-1826.	3.0	23
3	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.	7.9	33
4	Electronic realisation technique for fractional order integrators. Journal of Engineering, 2020, 2020, 157-167.	1.1	11
5	Application of fractional-order voltage controller in building-integrated photovoltaic and wind turbine system. Measurement and Control, 2019, 52, 1145-1158.	1.8	7
6	Lead and lag controller design in fractional-order control systems. Measurement and Control, 2019, 52, 1017-1028.	1.8	6
7	Limit cycles in relay systems with fractional order plants. Transactions of the Institute of Measurement and Control, 2019, 41, 4424-4435.	1.7	2
8	Decoupling control of a twin rotor MIMO system using optimization method. , 2019, , .		3
9	Inverse Laplace Transforms of the Fractional Order Transfer Functions. , 2019, , .		4
10	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
11	Root-Locus Analysis of Fractional Order Transfer Functions Using LabVIEW: An Interactive Application. , 2018, , .		1
12	PID Tuning Method for Integrating Processes Having Time Delay and Inverse Response. IFAC-PapersOnLine, 2018, 51, 274-279.	0.9	25
13	Design of PI Controller using Optimization Method in Fractional Order Control Systems. IFAC-PapersOnLine, 2018, 51, 841-846.	0.9	18
14	An interactive design strategy for fractional order PI controllers in LabVIEW. International Journal of Modelling, Identification and Control, 2018, 29, 304.	0.2	1
15	Tuning of PI-PD Controller Based on Standard Forms for Fractional Order Systems. Journal of Applied Nonlinear Dynamics, 2018, 8, 5-23.	0.3	4
16	An interactive design strategy for fractional order PI controllers in LabVIEW. International Journal of Modelling, Identification and Control, 2018, 29, 304.	0.2	1
17	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.	2.5	4
18	A New Integer Order Approximation Table for Fractional Order Derivative Operators. IFAC-PapersOnLine, 2017, 50, 9736-9741.	0.9	18

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19	Practical Tuning Algorithm of PD $\hat{\mu}$ Controller for Processes with Time Delay. IFAC-PapersOnLine, 2017, 50, 9230-9235.	0.9	6
20	Tuning of Fractional Order PID Controllers Based on Integral Performance Criteria Using Fourier Series Method. IFAC-PapersOnLine, 2017, 50, 8561-8566.	0.9	14
21	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.	0.5	3
22	Derivation of Analytical Inverse Laplace Transform for Fractional Order Integrator. Journal of Applied Nonlinear Dynamics, 2017, 6, 303-314.	0.3	4
23	A Model Identification Method for Tuning of PID Controller in a Smith Predictor Structure. IFAC-PapersOnLine, 2016, 49, 13-18.	0.9	6
24	Fractional Order PI Controller Design for Time Delay Systems. IFAC-PapersOnLine, 2016, 49, 94-99.	0.9	19
25	An integer order approximation method based on stability boundary locus for fractional order derivative/integrator operators. ISA Transactions, 2016, 62, 154-163.	5.7	50
26	PID controller design based on second order model approximation by using stability boundary locus fitting. , 2015, , .		6
27	Obtaining the time response of control systems with fractional order PID from frequency responses. , 2015, , .		3
28	Effect of shunt capacitors on power systems containing renewable energy resources. , 2015, , .		0
29	Implicit disturbance rejection performance analysis of closed loop control systems according to communication channel limitations. IET Control Theory and Applications, 2015, 9, 2522-2531.	2.1	31
30	Time Response Computation of Control Systems with Fractional Order Lag or Lead Controller. , 2015, , .		3
31	Estimating the time response of control systems with fractional order PI from frequency response. , 2015, , .		2
32	Design of phase lead and phase lag filters for fractional order systems. , 2015, , .		0
33	Methods for computing the time response of fractional order systems. IET Control Theory and Applications, 2015, 9, 817-830.	2.1	35
34	Advances in Control Theory and Applications: Selected papers from TOK 2013. Transactions of the Institute of Measurement and Control, 2015, 37, 579-581.	1.7	0
35	IIR filter design based on LabVIEW. , 2015, , .		2
36	Analysis of PFC and THD with the boost converter. , 2015, , .		0

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37	Stability region analysis in Smith predictor configurations using a PI controller. Transactions of the Institute of Measurement and Control, 2015, 37, 606-614.	1.7	15
38	Disturbance rejection performance analyses of closed loop control systems by reference to disturbance ratio. ISA Transactions, 2015, 55, 63-71.	5.7	45
39	Limit Cycles in Nonlinear Systems with Fractional Order Plants. Machines, 2014, 2, 176-201.	2.2	12
40	Analysis of fractional order polynomials using Hermite-Biehler theorem. , 2014, , .		5
41	Design of fractional-order PI controllers for disturbance rejection using RDR measure. , 2014, , .		12
42	Computation of limit cycles in nonlinear feedback loops with fractional order plants. , 2014, , .		5
43	Note on fractional-order proportionalâ€“integralâ€“differential controller design. IET Control Theory and Applications, 2011, 5, 1978-1989.	2.1	132
44	Classical controller design techniques for fractional order case. ISA Transactions, 2011, 50, 461-472.	5.7	44
45	Authorâ€™s reply: A comment on the â€œRobust stability analysis of fractional order interval polynomialsâ€“, by Nusret Tan et al.. ISA Transactions, 2011, 50, 12.	5.7	0
46	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
47	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
48	Frequency response computation of fractional order interval transfer functions. International Journal of Control, Automation and Systems, 2010, 8, 1009-1017.	2.7	23
49	Integer order approximation of fractional order systems. , 2010, , .		3
50	Nyquist Envelope of Fractional Order Transfer Functions with Parametric Uncertainty. , 2010, , 487-494.		3
51	Computation of stabilizing PI-PD controllers. International Journal of Control, Automation and Systems, 2009, 7, 175-184.	2.7	45
52	Robust stability analysis of fractional order interval polynomials. ISA Transactions, 2009, 48, 166-172.	5.7	125
53	Development of a toolbox for frequency response analysis of fractional order control systems. , 2009, , .		4
54	Effect of Dielectric Barrier Discharge on the Sorption Properties of Disperse Porous Materials in CO ₂ /Silicagel and SF ₆ /Silicagel Systems. Industrial & Engineering Chemistry Research, 2007, 46, 4468-4473.	3.7	0

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55	Improved cascade control structure for enhanced performance. Journal of Process Control, 2007, 17, 3-16.	3.3	81
56	Design of stabilizing PI and PID controllers. International Journal of Systems Science, 2006, 37, 543-554.	5.5	31
57	Design of PI controllers for achieving time and frequency domain specifications simultaneously. ISA Transactions, 2006, 45, 529-543.	5.7	55
58	A refinement procedure for PID controllers. Electrical Engineering, 2006, 88, 215-221.	2.0	41
59	Computation of stabilizing PI and PID controllers using the stability boundary locus. Energy Conversion and Management, 2006, 47, 3045-3058.	9.2	211
60	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
61	Computation of stabilizing PI and PID controllers for processes with time delay. ISA Transactions, 2005, 44, 213-223.	5.7	109
62	Robust phase margin, robust gain margin and Nyquist envelope of an interval plant family. Computers and Electrical Engineering, 2004, 30, 153-165.	4.8	13
63	New approach to assessing the effects of parametric variations in feedback loops. IET Control Theory and Applications, 2003, 150, 101-111.	1.7	6
64	Computation of stabilizing Lag/Lead controller parameters. Computers and Electrical Engineering, 2003, 29, 835-849.	4.8	16
65	Robustness analysis of control systems with mixed perturbations. Transactions of the Institute of Measurement and Control, 2003, 25, 163-184.	1.7	2
66	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
67	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
68	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
69	SOME RESULTS ON CONTROL SYSTEMS WITH MIXED PERTURBATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 163-168.	0.4	2
70	Computation of the frequency response of multilinear affine systems. IEEE Transactions on Automatic Control, 2002, 47, 1691-1696.	5.7	19
71	Bode envelopes of multilinear affine systems. , 2001, , .		0
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	Frequency response of uncertain systems: a 2q-convex parpolygonal approach. IET Control Theory and Applications, 2000, 147, 547-555.	1.7	28
75	Stability and performance analysis in an uncertain world. Computing & Control Engineering Journal, 2000, 11, 91-101.	0.0	23
76	Absolute stability problem of systems with parametric uncertainties. , 1999, , .		5
77	Describing function analysis of nonlinear discrete interval systems. , 1999, , .		3
78	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
79	Magnitude and phase envelopes of systems with affine linear uncertainty. , 1998, , .		7
80	Computation of stabilizing PI parameters for vehicle suspension system using the stability boundary locus. , 0, , .		0
81	Improved Cascade Control Structure and Controller Design. , 0, , .		5
82	PI-PD Controllers Design Using Bodeâ€™s Ideal Transfer Function. SSRN Electronic Journal, 0, , .	0.4	2
83	PI-PD Denetleyicisi ile Fotovoltaik ve RÃ¼zgar TÃ¼rbini Entegre Bina Sisteminde Gerilim KontrolÃ¼. European Journal of Science and Technology, 0, , 992-1003.	0.5	0
84	An experimental analog circuit realization of Matsudaâ€™s approximate fractional-order integral operators for industrial electronics. Engineering Research Express, 0, , .	1.6	4