

Michael Malisoff

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

1,394
citations

20
h-index

33
g-index

138
ext. papers

1,718
ext. citations

3.4
avg, IF

5.35
L-index

#	Paper	IF	Citations
116	Constructions of Strict Lyapunov Functions. <i>Communications and Control Engineering</i> , 2009 ,	0.6	136
115	Further results on input-to-state stability for nonlinear systems with delayed feedbacks. <i>Automatica</i> , 2008 , 44, 2415-2421	5.7	128
114	Robustness of nonlinear systems with respect to delay and sampling of the controls. <i>Automatica</i> , 2013 , 49, 1925-1931	5.7	71
113	Design of continuous-discrete observers for time-varying nonlinear systems. <i>Automatica</i> , 2015 , 57, 135-144	5.7	51
112	Reduction Model Approach for Linear Time-Varying Systems With Delays. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2068-2082	5.9	47
111	Stabilization of Nonlinear Time-Varying Systems Through a New Prediction Based Approach. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2908-2915	5.9	45
110	Further remarks on strict input-to-state stable Lyapunov functions for time-varying systems. <i>Automatica</i> , 2005 , 41, 1973-1978	5.7	42
109	Universal formulas for feedback stabilization with respect to Minkowski balls. <i>Systems and Control Letters</i> , 2000 , 40, 247-260	2.4	36
108	Extensions of Razumikhin's theorem and Lyapunov-Krasovskii functional constructions for time-varying systems with delay. <i>Automatica</i> , 2017 , 78, 1-13	5.7	35
107	Trajectory Based Approach for the Stability Analysis of Nonlinear Systems with Time Delays. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 1716-1721	5.9	35
106	Stability Analysis for Time-Varying Systems With Delay Using Linear Lyapunov Functionals and a Positive Systems Approach. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 771-776	5.9	34
105	Stabilization and robustness analysis for time-varying systems with time-varying delays using a sequential subpredictors approach. <i>Automatica</i> , 2017 , 82, 118-127	5.7	34
104	Further Results on Stabilization of Periodic Trajectories for a Chemostat With Two Species. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 66-74	5.9	31
103	Predictor-based tracking for neuromuscular electrical stimulation. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 2391-2419	3.6	28
102	Stabilization of a chemostat model with Haldane growth functions and a delay in the measurements. <i>Automatica</i> , 2010 , 46, 1428-1436	5.7	26
101	Stability and Robustness Analysis for Curve Tracking Control using Input-to-State Stability. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1320-1326	5.9	24
100	New control design for bounded backstepping under input delays. <i>Automatica</i> , 2016 , 66, 48-55	5.7	22

99	Stability and Control Design for Time-Varying Systems with Time-Varying Delays using a Trajectory-Based Approach. <i>SIAM Journal on Control and Optimization</i> , 2017 , 55, 533-556	1.9	21
98	Local Stabilization of Nonlinear Systems Through the Reduction Model Approach. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3033-3039	5.9	20
97	Uniform Global Asymptotic Stability of a Class of Adaptively Controlled Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1152-1158	5.9	20
96	Robustness of Adaptive Control under Time Delays for Three-Dimensional Curve Tracking. <i>SIAM Journal on Control and Optimization</i> , 2015 , 53, 2203-2236	1.9	19
95	Asymptotic stabilization for feedforward systems with delayed feedbacks. <i>Automatica</i> , 2013 , 49, 780-787	5.7	19
94	Strict Lyapunov Function Constructions Under LaSalle Conditions With an Application to Lotka-Volterra Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 841-854	5.9	19
93	A Simplified Design for Strict Lyapunov Functions Under Matrosov Conditions. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 177-183	5.9	19
92	Adaptive control for planar curve tracking under controller uncertainty. <i>Automatica</i> , 2013 , 49, 1411-1418	5.7	18
91	Further results on strict Lyapunov functions for rapidly time-varying nonlinear systems. <i>Automatica</i> , 2006 , 42, 1663-1671	5.7	18
90	On the stability of periodic solutions in the perturbed chemostat. <i>Mathematical Biosciences and Engineering</i> , 2007 , 4, 319-38	2.1	17
89	A separation principle for a class of hybrid automata on a partial order 2009 ,		16
88	Constructions of strict Lyapunov functions for discrete time and hybrid time-varying systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008 , 2, 394-407	4.5	15
87	Stability analysis for systems with time-varying delay: Trajectory based approach 2015 ,		14
86	On tracking for the PVTOL model with bounded feedbacks 2011 ,		14
85	Stability and Robustness Analysis for Switched Systems with Time-Varying Delays. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 158-182	1.9	13
84	Bounded Tracking Controllers and Robustness Analysis for UAVs. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 180-187	5.9	13
83	Tracking control and robustness analysis for a nonlinear model of human heart rate during exercise. <i>Automatica</i> , 2011 , 47, 968-974	5.7	12
82	Further results on Lyapunov functions for slowly time-varying systems. <i>Mathematics of Control, Signals, and Systems</i> , 2007 , 19, 1-21	1.3	12

81	New prediction approach for stabilizing time-varying systems under time-varying input delay 2016 ,		12
80	Finite time estimation through a continuous-discrete observer. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4831-4849	3.6	10
79	Adaptive planar curve tracking control and robustness analysis under state constraints and unknown curvature. <i>Automatica</i> , 2017 , 75, 133-143	5.7	9
78	Bounded-from-below solutions of the Hamilton-Jacobi equation for optimal control problems with exit times: vanishing lagrangians, eikonal equations, and shape-from-shading. <i>Nonlinear Differential Equations and Applications</i> , 2004 , 11, 95-122	0.8	9
77	Collaborative Autonomous Surveys in Marine Environments Affected by Oil Spills. <i>Studies in Computational Intelligence</i> , 2014 , 87-113	0.8	9
76	Stabilization of Nonlinear Delay Systems: A Tutorial on Recent Results. <i>Advances in Delays and Dynamics</i> , 2016 , 1-41	0.3	8
75	Bounded backstepping control and robustness analysis for time-varying systems under converging-input-converging-state conditions. <i>European Journal of Control</i> , 2018 , 42, 15-24	2.5	8
74	Stabilization in a Two-Species Chemostat With Monod Growth Functions. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 855-861	5.9	8
73	Continuous Discrete Sequential Observers for Time-Varying Systems Under Sampling and Input Delays. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1704-1709	5.9	8
72	Stability and stabilization for models of chemostats with multiple limiting substrates. <i>Journal of Biological Dynamics</i> , 2012 , 6, 612-27	2.4	7
71	Tracking control and robustness analysis for planar vertical takeoff and landing aircraft under bounded feedbacks. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 1899-1920	3.6	7
70	Event-triggered control using a positive systems approach. <i>European Journal of Control</i> , 2021 , 62, 63-63	2.5	7
69	Sequential Predictors Under Time-Varying Feedback and Measurement Delays and Sampling. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2991-2996	5.9	7
68	Reduction model approach for systems with a time-varying delay 2015 ,		6
67	Sequential predictors for delay compensation for discrete time systems with time-varying delays. <i>Automatica</i> , 2020 , 122, 109188	5.7	6
66	Backstepping design for output feedback stabilization for a class of uncertain systems. <i>Systems and Control Letters</i> , 2019 , 123, 134-143	2.4	6
65	Stabilization and Robustness Analysis for a Chain of Saturating Integrators With Imprecise Measurements 2019 , 3, 428-433		5
64	Continuous-Discrete Observers for Time-Varying Nonlinear Systems: A Tutorial on Recent Results 2015 , 181-188		5

63	Reduced order finite time observers and output feedback for time-varying nonlinear systems. <i>Automatica</i> , 2020 , 119, 109083	5.7	5
62	Tracking and robustness analysis for controlled microelectromechanical relays. <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 18, 1637-1656	3.6	5
61	On Input-to-State Stability for Nonlinear Systems with Delayed Feedbacks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	5
60	New bounded backstepping control designs for time-varying systems under converging-input-converging-state conditions 2016 ,		5
59	Sampled-data feedback stabilization of age-structured chemostat models 2015 ,		4
58	Bounded backstepping approach under input delays 2015 ,		4
57	Robustness of a class of three-dimensional curve tracking control laws under time delays and polygonal state constraints 2013 ,		4
56	Stabilization of linear time varying systems with input delays: Application to rapidly time varying systems 2013 ,		4
55	Uniform global asymptotic stability of adaptive cascaded nonlinear systems with unknown high-frequency gains. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011 , 74, 1132-1145	1.3	4
54	Stabilizing a Periodic Solution in the Chemostat: A Case Study in Tracking 2006 ,		4
53	Event-triggered control for continuous-time linear systems with a delay in the input. <i>Systems and Control Letters</i> , 2022 , 159, 105075	2.4	4
52	Tracking and parameter identification for model reference adaptive control. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 1582-1606	3.6	4
51	Sequential predictors for delay-compensating feedback stabilization of bilinear systems with uncertainties. <i>Systems and Control Letters</i> , 2021 , 152, 104933	2.4	4
50	Finite time estimation for time-varying systems with delay in the measurements. <i>Systems and Control Letters</i> , 2019 , 133, 104551	2.4	3
49	Contention resolving optimal priority assignment for event-triggered model predictive controllers 2017 ,		3
48	Bounded backstepping through a dynamic extension with delay 2017 ,		3
47	Model-based nonlinear control of the human heart rate during treadmill exercising 2010 ,		3
46	Remarks on output feedback stabilization of two-species chemostat models. <i>Automatica</i> , 2010 , 46, 1739-1742	1.7	3

45	Stabilization and robustness analysis for a chemostat model with two species and monod growth rates via a Lyapunov approach 2007 ,		3
44	On Control-Lyapunov Functions for Hybrid Time-Varying Systems 2006 ,		3
43	Reduced-order fast converging observers for systems with discrete measurements and measurement error. <i>Systems and Control Letters</i> , 2021 , 150, 104892	2.4	3
42	Stability and observer designs using new variants of Halanay's inequality. <i>Automatica</i> , 2021 , 123, 109299	5.7	3
41	Continuous-Discrete Sequential Observers under Sampling and Input Delays 2018 ,		3
40	Stability analysis of switched systems with time-varying discontinuous delays 2017 ,		2
39	New technique for stability analysis for time-varying systems with delay 2014 ,		2
38	Input-to-state stability for curve tracking control: A constructive approach 2011 ,		2
37	Lyapunov functions and robustness analysis under Matrosov conditions with an application to biological systems 2008 ,		2
36	Event-Triggered Control for Discrete-Time Systems Using a Positive Systems Approach 2022 , 6, 1843-1848		2
35	Delayed Multivariable Extremum Seeking with Sequential Predictors 2020 ,		2
34	Stabilization in a chemostat with sampled and delayed measurements 2016 ,		2
33	Stability Analysis for Time-Varying Systems With Asynchronous Sampling Using Contractivity Approach 2021 , 5, 49-54		2
32	Backstepping Design for Output Feedback Stabilization for a Class of Uncertain Systems using Dynamic Extension. <i>IFAC-PapersOnLine</i> , 2018 , 51, 260-265	0.7	2
31	Vector Extensions of Halanay's Inequality. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
30	Feedback Stabilization with Discrete Measurements using Bounds on Fundamental Matrices 2021 ,		2
29	Event-Triggered Control for Systems with State Delays Using a Positive Systems Approach 2021 ,		2
28	Event-Triggered Prediction-Based Delay Compensation Approach 2022 , 1-1		2

27	Tracking, Parameter Identification, and Convergence Rates for Model Reference Adaptive Control 2018,		1
26	Sequential predictors under time-varying delays: Effects of delayed state observations in dynamic controller 2017,		1
25	Stabilization of a chain of exponential integrators using a strict Lyapunov function 2015,		1
24	An adaptive control design for 3D curve tracking based on robust forward invariance 2013,		1
23	Lyapunov functions under LaSalle conditions with an application to Lotka-Volterra systems 2009,		1
22	Event-triggered control for linear time-varying systems using a positive systems approach. <i>Systems and Control Letters</i> , 2022 , 161, 105131	2.4	1
21	New Finite-Time and Fast Converging Observers With a Single Delay 2021 , 1-1		1
20	Stabilization for a chain of saturating integrators arising in the visual landing of aircraft with sampling. <i>Systems and Control Letters</i> , 2020 , 135, 104574	2.4	1
19	Adaptive planar curve tracking control with unknown curvature 2016,		1
18	Contention-Resolving Model Predictive Control for Coordinating Automated Vehicles at a Traffic Intersection 2019,		1
17	Stabilization and Robustness Analysis for a Chain of Saturating Integrators Arising in the Visual Landing of Aircraft 2019,		1
16	Stability Analysis Using Generalized Sup-Delay Inequalities 2021 , 5, 1411-1416		1
15	Stability Analysis using New Variant of Halanay's Inequality. <i>IFAC-PapersOnLine</i> , 2021 , 54, 783-786	0.7	1
14	Reduced Order Finite Time Observers for Time-Varying Nonlinear Systems 2018,		1
13	Sequential Predictors for Linear Time-Varying Systems with Delays in the Vector Field and in the Input 2018,		1
12	Reduced Order Fast Converging Observer for Systems with Discrete Measurements. <i>IFAC-PapersOnLine</i> , 2021 , 54, 219-224	0.7	1
11	Strict Lyapunov functions and feedback controls for SIR models with quarantine and vaccination. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022 ,	1.3	1
10	Feedback stabilization and robustness analysis using bounds on fundamental matrices. <i>Systems and Control Letters</i> , 2022 , 164, 105212	2.4	1

9	Stability and robustness analysis for human pointing motions with acceleration under feedback delays. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 703-721	3.6	o
8	New Versions of Halanay's Inequality With Multiple Gain Terms 2021 , 1-1		o
7	Controls for a nonlinear system arising in vision-based landing of airliners. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 1227-1244	3.6	o
6	Discussion on: On a Small Gain Theorem for ISS Networks in Dissipative Lyapunov Form <i>European Journal of Control</i> , 2011 , 17, 367-369	2.5	
5	Delayed Newton-Based Multivariable Extremum Seeking with Sequential Predictors. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5381-5385	0.7	
4	Further Results on Stabilization of Periodic Trajectories for a Chemostat With Two Species. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2007 , 1-1	3.9	
3	Almost Finite-Time Observers for a Family of Nonlinear Continuous-Time Systems 2022 , 6, 2593-2598		
2	New Bounds for State Transition Matrices 2022 , 1-1		
1	Sampled-data estimator for nonlinear systems with uncertainties and arbitrarily fast rate of convergence. <i>Automatica</i> , 2022 , 142, 110361	5.7	