

Michael Malisoff

List of Publications by Year in Descending Order

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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	Event-Triggered Control for Discrete-Time Systems Using a Positive Systems Approach 2022 , 6, 1843-1848		2
115	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
114	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
113	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
112	Event-Triggered Prediction-Based Delay Compensation Approach 2022 , 1-1		2
111	Almost Finite-Time Observers for a Family of Nonlinear Continuous-Time Systems 2022 , 6, 2593-2598		
110	New Bounds for State Transition Matrices 2022 , 1-1		
109	Feedback stabilization and robustness analysis using bounds on fundamental matrices. <i>Systems and Control Letters</i> , 2022 , 164, 105212	2.4	1
108	Sampled-data estimator for nonlinear systems with uncertainties and arbitrarily fast rate of convergence. <i>Automatica</i> , 2022 , 142, 110361	5.7	
107	New Versions of Halanay Inequality With Multiple Gain Terms 2021 , 1-1		0
106	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	0
105	New Finite-Time and Fast Converging Observers With a Single Delay 2021 , 1-1		1
104	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
103	Sequential predictors for delay-compensating feedback stabilization of bilinear systems with uncertainties. <i>Systems and Control Letters</i> , 2021 , 152, 104933	2.4	4
102	Event-triggered control using a positive systems approach. <i>European Journal of Control</i> , 2021 , 62, 63-63	2.5	7
101	Stability Analysis for Time-Varying Systems With Asynchronous Sampling Using Contractivity Approach 2021 , 5, 49-54		2
100	Stability Analysis Using Generalized Sup-Delay Inequalities 2021 , 5, 1411-1416		1

99	Stability and observer designs using new variants of Halanay's inequality. <i>Automatica</i> , 2021 , 123, 109299	5.7	3
98	Stability Analysis using New Variant of Halanay's Inequality. <i>IFAC-PapersOnLine</i> , 2021 , 54, 783-786	0.7	1
97	Reduced Order Fast Converging Observer for Systems with Discrete Measurements. <i>IFAC-PapersOnLine</i> , 2021 , 54, 219-224	0.7	1
96	Vector Extensions of Halanay's Inequality. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
95	Feedback Stabilization with Discrete Measurements using Bounds on Fundamental Matrices 2021 ,		2
94	Event-Triggered Control for Systems with State Delays Using a Positive Systems Approach 2021 ,		2
93	Reduced order finite time observers and output feedback for time-varying nonlinear systems. <i>Automatica</i> , 2020 , 119, 109083	5.7	5
92	Delayed Newton-Based Multivariable Extremum Seeking with Sequential Predictors. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5381-5385	0.7	
91	Delayed Multivariable Extremum Seeking with Sequential Predictors 2020 ,		2
90	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
89	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
88	Sequential predictors for delay compensation for discrete time systems with time-varying delays. <i>Automatica</i> , 2020 , 122, 109188	5.7	6
87	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
86	Stabilization and Robustness Analysis for a Chain of Saturating Integrators With Imprecise Measurements 2019 , 3, 428-433		5
85	Finite time estimation for time-varying systems with delay in the measurements. <i>Systems and Control Letters</i> , 2019 , 133, 104551	2.4	3
84	Contention-Resolving Model Predictive Control for Coordinating Automated Vehicles at a Traffic Intersection 2019 ,		1
83	Stabilization and Robustness Analysis for a Chain of Saturating Integrators Arising in the Visual Landing of Aircraft 2019 ,		1
82	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

81	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
80	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
79	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
78	Tracking, Parameter Identification, and Convergence Rates for Model Reference Adaptive Control 2018 ,		1
77	Continuous-Discrete Sequential Observers under Sampling and Input Delays 2018 ,		3
76	Reduced Order Finite Time Observers for Time-Varying Nonlinear Systems 2018 ,		1
75	Sequential Predictors for Linear Time-Varying Systems with Delays in the Vector Field and in the Input 2018 ,		1
74	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
73	Finite time estimation through a continuous-discrete observer. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4831-4849	3.6	10
72	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
71	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	0
70	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
69	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
68	Contention resolving optimal priority assignment for event-triggered model predictive controllers 2017 ,		3
67	Stability analysis of switched systems with time-varying discontinuous delays 2017 ,		2
66	Adaptive planar curve tracking control and robustness analysis under state constraints and unknown curvature. <i>Automatica</i> , 2017 , 75, 133-143	5.7	9
65	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
64	Bounded backstepping through a dynamic extension with delay 2017 ,		3

63	Sequential predictors under time-varying delays: Effects of delayed state observations in dynamic controller 2017 ,		1
62	Stabilization of Nonlinear Delay Systems: A Tutorial on Recent Results. <i>Advances in Delays and Dynamics</i> , 2016 , 1-41	0.3	8
61	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
60	New control design for bounded backstepping under input delays. <i>Automatica</i> , 2016 , 66, 48-55	5.7	22
59	Stabilization in a chemostat with sampled and delayed measurements 2016 ,		2
58	Adaptive planar curve tracking control with unknown curvature 2016 ,		1
57	New bounded backstepping control designs for time-varying systems under converging-input-converging-state conditions 2016 ,		5
56	New prediction approach for stabilizing time-varying systems under time-varying input delay 2016 ,		12
55	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
54	Design of continuous-discrete observers for time-varying nonlinear systems. <i>Automatica</i> , 2015 , 57, 135-144	3.4	51
53	Continuous-Discrete Observers for Time-Varying Nonlinear Systems: A Tutorial on Recent Results 2015 , 181-188		5
52	Stability analysis for systems with time-varying delay: Trajectory based approach 2015 ,		14
51	Predictor-based tracking for neuromuscular electrical stimulation. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 2391-2419	3.6	28
50	Sampled-data feedback stabilization of age-structured chemostat models 2015 ,		4
49	Bounded backstepping approach under input delays 2015 ,		4
48	Reduction model approach for systems with a time-varying delay 2015 ,		6
47	Stabilization of a chain of exponential integrators using a strict Lyapunov function 2015 ,		1
46	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

45	Reduction Model Approach for Linear Time-Varying Systems With Delays. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2068-2082	5.9	47
44	Local Stabilization of Nonlinear Systems Through the Reduction Model Approach. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3033-3039	5.9	20
43	New technique for stability analysis for time-varying systems with delay 2014 ,		2
42	Collaborative Autonomous Surveys in Marine Environments Affected by Oil Spills. <i>Studies in Computational Intelligence</i> , 2014 , 87-113	0.8	9
41	Asymptotic stabilization for feedforward systems with delayed feedbacks. <i>Automatica</i> , 2013 , 49, 780-787	5.7	19
40	Bounded Tracking Controllers and Robustness Analysis for UAVs. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 180-187	5.9	13
39	Adaptive control for planar curve tracking under controller uncertainty. <i>Automatica</i> , 2013 , 49, 1411-1418	5.7	18
38	Robustness of nonlinear systems with respect to delay and sampling of the controls. <i>Automatica</i> , 2013 , 49, 1925-1931	5.7	71
37	An adaptive control design for 3D curve tracking based on robust forward invariance 2013 ,		1
36	Robustness of a class of three-dimensional curve tracking control laws under time delays and polygonal state constraints 2013 ,		4
35	Stabilization of linear time varying systems with input delays: Application to rapidly time varying systems 2013 ,		4
34	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
33	Stability and stabilization for models of chemostats with multiple limiting substrates. <i>Journal of Biological Dynamics</i> , 2012 , 6, 612-27	2.4	7
32	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
31	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	
30	Input-to-state stability for curve tracking control: A constructive approach 2011 ,		2
29	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
28	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

27	On tracking for the PVTOL model with bounded feedbacks 2011 ,		14
26	Model-based nonlinear control of the human heart rate during treadmill exercising 2010 ,		3
25	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
24	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
23	Remarks on output feedback stabilization of two-species chemostat models. <i>Automatica</i> , 2010 , 46, 1739-1742	5.7	3
22	A separation principle for a class of hybrid automata on a partial order 2009 ,		16
21	Lyapunov functions under LaSalle conditions with an application to Lotka-Volterra systems 2009 ,		1
20	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
19	Constructions of Strict Lyapunov Functions. <i>Communications and Control Engineering</i> , 2009 ,	0.6	136
18	Stabilization in a Two-Species Chemostat With Monod Growth Functions. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 855-861	5.9	8
17	A Simplified Design for Strict Lyapunov Functions Under Matrosov Conditions. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 177-183	5.9	19
16	Lyapunov functions and robustness analysis under Matrosov conditions with an application to biological systems 2008 ,		2
15	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
14	Tracking and robustness analysis for controlled microelectromechanical relays. <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 18, 1637-1656	3.6	5
13	Further results on input-to-state stability for nonlinear systems with delayed feedbacks. <i>Automatica</i> , 2008 , 44, 2415-2421	5.7	128
12	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
11	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
10	On Input-to-State Stability for Nonlinear Systems with Delayed Feedbacks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	5

9	Stabilization and robustness analysis for a chemostat model with two species and monod growth rates via a Lyapunov approach 2007 ,		3
8	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	
7	On the stability of periodic solutions in the perturbed chemostat. <i>Mathematical Biosciences and Engineering</i> , 2007 , 4, 319-38	2.1	17
6	Stabilizing a Periodic Solution in the Chemostat: A Case Study in Tracking 2006 ,		4
5	On Control-Lyapunov Functions for Hybrid Time-Varying Systems 2006 ,		3
4	Further results on strict Lyapunov functions for rapidly time-varying nonlinear systems. <i>Automatica</i> , 2006 , 42, 1663-1671	5-7	18
3	Further remarks on strict input-to-state stable Lyapunov functions for time-varying systems. <i>Automatica</i> , 2005 , 41, 1973-1978	5-7	42
2	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
1	Universal formulas for feedback stabilization with respect to Minkowski balls. <i>Systems and Control Letters</i> , 2000 , 40, 247-260	2.4	36