

Frdric Mazenc

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92
papers

1,690
citations

21
h-index

39
g-index

97
ext. papers

2,047
ext. citations

3.6
avg. IF

5.6
L-index

#	Paper	IF	Citations
92	Interval observers for linear time-invariant systems with disturbances. <i>Automatica</i> , 2011 , 47, 140-147	5.7	257
91	Constructions of Strict Lyapunov Functions. <i>Communications and Control Engineering</i> , 2009 ,	0.6	136
90	Further results on input-to-state stability for nonlinear systems with delayed feedbacks. <i>Automatica</i> , 2008 , 44, 2415-2421	5.7	128
89	Lyapunov-Krasovskii functionals and application to input delay compensation for linear time-invariant systems. <i>Automatica</i> , 2012 , 48, 1317-1323	5.7	91
88	Robustness of nonlinear systems with respect to delay and sampling of the controls. <i>Automatica</i> , 2013 , 49, 1925-1931	5.7	71
87	Generating positive and stable solutions through delayed state feedback. <i>Automatica</i> , 2011 , 47, 525-533	5.7	52
86	Design of continuous-discrete observers for time-varying nonlinear systems. <i>Automatica</i> , 2015 , 57, 135-144	5.7	51
85	Reduction Model Approach for Linear Time-Varying Systems With Delays. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2068-2082	5.9	47
84	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
83	Construction of interval observers for continuous-time systems with discrete measurements. <i>Automatica</i> , 2014 , 50, 2555-2560	5.7	44
82	Stabilization of linear systems with both input and state delays by observer-predictors. <i>Automatica</i> , 2017 , 83, 368-377	5.7	43
81	Backstepping for Nonlinear Systems with Delay in the Input Revisited. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 2263-2278	1.9	43
80	Reduction Model Approach for Linear Systems With Sampled Delayed Inputs. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1263-1268	5.9	39
79	Partial Lyapunov Strictification: Smooth Angular Velocity Observers for Attitude Tracking Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 442-451	2.1	38
78	Extensions of Razumikhin theorem and Lyapunov-Krasovskii functional constructions for time-varying systems with delay. <i>Automatica</i> , 2017 , 78, 1-13	5.7	35
77	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
76	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

75	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
74	Lyapunov functions for time-varying systems satisfying generalized conditions of Matrosov theorem. <i>Mathematics of Control, Signals, and Systems</i> , 2007 , 19, 151-182	1.3	30
73	New control design for bounded backstepping under input delays. <i>Automatica</i> , 2016 , 66, 48-55	5.7	22
72	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
71	High-Gain Nonlinear Observer With Lower Tuning Parameter. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3194-3209	5.9	21
70	Local Stabilization of Nonlinear Systems Through the Reduction Model Approach. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3033-3039	5.9	20
69	Asymptotic stabilization for feedforward systems with delayed feedbacks. <i>Automatica</i> , 2013 , 49, 780-787	5.7	19
68	A Simplified Design for Strict Lyapunov Functions Under Matrosov Conditions. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 177-183	5.9	19
67	Estimation of solutions of observable nonlinear systems with disturbances. <i>Systems and Control Letters</i> , 2015 , 79, 47-58	2.4	17
66	Robust compensation of a chattering time-varying input delay with jumps. <i>Automatica</i> , 2018 , 92, 225-234	5.7	17
65	ISS interval observers for nonlinear systems transformed into triangular systems. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 1241-1261	3.6	16
64	Backstepping with Bounded Feedbacks for Time-Varying Systems. <i>SIAM Journal on Control and Optimization</i> , 2004 , 43, 856-871	1.9	16
63	Dynamic output feedback stabilization of switched linear systems with delay via a trajectory based approach. <i>Automatica</i> , 2018 , 93, 92-97	5.7	15
62	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
61	Lyapunov Technique and Backstepping for Nonlinear Neutral Systems. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 512-517	5.9	13
60	Predictor-based sampled-data exponential stabilization through continuous-discrete observers. <i>Automatica</i> , 2016 , 63, 74-81	5.7	12
59	Continuous-discrete interval observers for systems with discrete measurements 2013 ,		12
58	New prediction approach for stabilizing time-varying systems under time-varying input delay 2016 ,		12

57	Finite time estimation through a continuous-discrete observer. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4831-4849	3.6	10
56	Partial Lyapunov Strictification: Dual-Quaternion-Based Observer for 6-DOF Tracking Control. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2453-2469	4.8	9
55	Global Stabilization of Discrete-Time Linear Systems Subject to Input Saturation and Time Delay. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1345-1352	5.9	9
54	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
53	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
52	Event-triggered control using a positive systems approach. <i>European Journal of Control</i> , 2021 , 62, 63-63	2.5	7
51	Delay-Hybrid-Dependent Stability for Systems With Large Delays. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 2752-2759	7.3	7
50	Lyapunov stability analysis of a model describing hematopoiesis 2015 ,		6
49	Sequential predictors for delay compensation for discrete time systems with time-varying delays. <i>Automatica</i> , 2020 , 122, 109188	5.7	6
48	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
47	Stabilization and Robustness Analysis for a Chain of Saturating Integrators With Imprecise Measurements 2019 , 3, 428-433		5
46	Continuous-Discrete Observers for Time-Varying Nonlinear Systems: A Tutorial on Recent Results 2015 , 181-188		5
45	Reduced order finite time observers and output feedback for time-varying nonlinear systems. <i>Automatica</i> , 2020 , 119, 109083	5.7	5
44	New bounded backstepping control designs for time-varying systems under converging-input-converging-state conditions 2016 ,		5
43	Asymptotic stabilization of linear time-varying systems with input delays via delayed static output feedback 2015 ,		4
42	Stability of immature cell dynamics in healthy and unhealthy hematopoiesis 2016 ,		4
41	Finite-time guaranteed state estimation for discrete-time systems with disturbances 2019 ,		4
40	Bounded backstepping approach under input delays 2015 ,		4

39	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
38	Stabilization with imprecise measurements: application to a vision based landing problem 2018 ,		4
37	Control in dormancy or eradication of cancer stem cells: Mathematical modeling and stability issues. <i>Journal of Theoretical Biology</i> , 2018 , 449, 103-123	2.3	3
36	Finite time estimation for time-varying systems with delay in the measurements. <i>Systems and Control Letters</i> , 2019 , 133, 104551	2.4	3
35	Bounded backstepping through a dynamic extension with delay 2017 ,		3
34	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
33	Stability and observer designs using new variants of Halanay's inequality. <i>Automatica</i> , 2021 , 123, 109299	5.7	3
32	Continuous-Discrete Sequential Observers under Sampling and Input Delays 2018 ,		3
31	Predictor-based sampled-data stabilization via continuous-discrete observers 2014 ,		2
30	Event-Triggered Control for Discrete-Time Systems Using a Positive Systems Approach 2022 , 6, 1843-1848		2
29	Global Stabilization of the Discrete-Time Integrators System by Bounded Controls. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 5175-5188	3.9	2
28	Sampled-Data Observers: Scarce Arbitrarily Large Sampling Intervals* 2019 ,		2
27	Stability Analysis for Time-Varying Systems With Asynchronous Sampling Using Contractivity Approach 2021 , 5, 49-54		2
26	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
25	Stabilization of a Nonlinear System that Arises in the Context of Vision Based Landing of an Airliner 2018 ,		2
24	Vector Extensions of Halanay's Inequality. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
23	Feedback Stabilization with Discrete Measurements using Bounds on Fundamental Matrices 2021 ,		2
22	Event-Triggered Control for Systems with State Delays Using a Positive Systems Approach 2021 ,		2

21	Event-Triggered Prediction-Based Delay Compensation Approach 2022 , 1-1		2
20	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
19	New Finite-Time and Fast Converging Observers With a Single Delay 2021 , 1-1		1
18	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
17	Analysis of a Nonlinear Delay Differential-Difference Biological Model**This work is supported by a public grant overseen by the French National Research Agency (ANR) as part of the "Investissement d'avenir" program, through the "iCODE Institute project" funded by the IDEX Paris-Saclay, ANR-IIDEX-0003-02. <i>IFAC-PapersOnLine</i> , 2016 , 49, 246-251	0.7	1
16	Stabilization and Robustness Analysis for a Chain of Saturating Integrators Arising in the Visual Landing of Aircraft 2019 ,		1
15	Stability Analysis Using Generalized Sup-Delay Inequalities 2021 , 5, 1411-1416		1
14	Stability Analysis using New Variant of Halanay's Inequality. <i>IFAC-PapersOnLine</i> , 2021 , 54, 783-786	0.7	1
13	Reduced Order Finite Time Observers for Time-Varying Nonlinear Systems 2018 ,		1
12	Sequential Predictors for Linear Time-Varying Systems with Delays in the Vector Field and in the Input 2018 ,		1
11	Reduced Order Fast Converging Observer for Systems with Discrete Measurements. <i>IFAC-PapersOnLine</i> , 2021 , 54, 219-224	0.7	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	New Versions of Halanay's Inequality With Multiple Gain Terms 2021 , 1-1		0
8	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
7	A behavioural dynamic model for constant power loads in single-phase AC systems. <i>Automatica</i> , 2021 , 131, 109744	5.7	0
6	Constructive backstepping for a class of delay systems based on functionals of complete type. <i>IFAC-PapersOnLine</i> , 2020 , 53, 4810-4815	0.7	
5	Backstepping for Uncertain Nonlinear Systems with a Delay in the Control. <i>IFAC-PapersOnLine</i> , 2021 , 54, 758-763	0.7	
4	Finite Time Estimation via Piecewise Constant Measurements. <i>IFAC-PapersOnLine</i> , 2018 , 51, 508-513	0.7	

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. *Automatica*, **2022**, 142, 110361 5:7