

Tarek Raissi

List of Publications by Year in descending order

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152
papers

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times ranked

979
citing authors

#	ARTICLE	IF	CITATIONS
1	Watermark-Based Proactive Defense Strategy Design for Cyber-Physical Systems With Unknown-but-Bounded Noises. IEEE Transactions on Automatic Control, 2023, 68, 3300-3315.	3.6	6
2	Indefinite Krasovskii and Razumikhin Stability for Nonlinear Positive Time-Varying Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2321-2325.	2.2	7
3	Functional Interval Observer for Discrete-Time Switched Descriptor Systems. IEEE Transactions on Automatic Control, 2022, 67, 2497-2504.	3.6	27
4	IPR-based distributed interval observers design for uncertain LTI systems. ISA Transactions, 2022, 121, 147-155.	3.1	9
5	Interval estimation based on the reduced-order observer and peak-to-peak analysis. International Journal of Control, 2022, 95, 2876-2884.	1.2	13
6	Interval observer-based methodology for passive fault tolerant control of linear parameter-varying systems. Transactions of the Institute of Measurement and Control, 2022, 44, 986-999.	1.1	7
7	Zonotopic Kalman Filter-Based Interval Estimation for Discrete-Time Linear Systems With Unknown Inputs. , 2022, 6, 806-811.		8
8	Robust Output Feedback MPC for LPV Systems Using Interval Observers. IEEE Transactions on Automatic Control, 2022, 67, 3188-3195.	3.6	14
9	Further results on the design of a class of discrete-time set-valued state estimators. International Journal of Robust and Nonlinear Control, 2022, 32, 649-668.	2.1	4
10	Robust output feedback model predictive control for constrained linear systems via interval observers. Automatica, 2022, 135, 109951.	3.0	10
11	Robust output feedback model predictive control of time-delayed systems using interval observers. International Journal of Robust and Nonlinear Control, 2022, 32, 1180-1193.	2.1	6
12	Fast interval estimation for discrete-time linear systems: An optimization method. Automatica, 2022, 137, 110029.	3.0	21
13	Ellipsoid-Based Interval Estimation for Lipschitz Nonlinear Systems. IEEE Transactions on Automatic Control, 2022, 67, 6802-6809.	3.6	9
14	Robust Interval Observer for Systems Described by the Fornasini-Marchesini Second Model. , 2022, 6, 1940-1945.		7
15	Two-step zonotopic estimation method for discrete-time linear delayed systems. European Journal of Control, 2022, 64, 100608.	1.6	5
16	Zonotopic unknown input state estimator for discrete-time linear systems. Systems and Control Letters, 2022, 162, 105168.	1.3	2
17	Outlier-robust membership estimation for discrete-time linear systems. International Journal of Robust and Nonlinear Control, 2022, 32, 2313-2329.	2.1	4
18	On interval observer design for active Fault Tolerant Control of Linear Parameter-Varying systems. Systems and Control Letters, 2022, 164, 105218.	1.3	10

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19	Active fault tolerant control using zonotopic techniques for linear parameter varying systems: Application to wind turbine system. European Journal of Control, 2022, 67, 100700.	1.6	5
20	Reliable actuator fault control of positive switched systems with double switchings. Asian Journal of Control, 2021, 23, 1831-1844.	1.9	10
21	Optimal Interval Observer for Switched Takagi-Sugeno Systems: An Application to Interval Fault Estimation. IEEE Transactions on Fuzzy Systems, 2021, 29, 2296-2309.	6.5	17
22	Interval Estimation for Discrete-Time Switched Linear Systems Based on L_2 Observer and Ellipsoid Analysis. , 2021, 5, 13-18.		8
23	Sensor fault detection for switched systems using interval observer with L_2 performance. European Journal of Control, 2021, 57, 147-156.	1.6	17
24	Unknown input interval observers for discrete-time linear switched systems. European Journal of Control, 2021, 59, 165-174.	1.6	14
25	Event-Triggered Filter Design of Positive Systems With State Saturation. IEEE Systems Journal, 2021, 15, 4281-4292.	2.9	19
26	Reliable control for positive switched systems with random nonlinearities. ISA Transactions, 2021, 108, 48-57.	3.1	12
27	Unknown Input Observer Design for Linear Parameter-Varying Systems in a Bounded Error Context. IEEE Transactions on Automatic Control, 2021, 66, 4246-4251.	3.6	18
28	A Collaborative Observer for Switched Linear Systems with Unknown Inputs. , 2021, , .		0
29	Event-triggered positive H_∞ non-fragile filter design for positive Markov jump systems. Information Sciences, 2021, 573, 562-584.		1
30	Indefinite Lyapunov-Razumikhin Functions-Based Stability and Event-Triggered Control of Switched Nonlinear Time-Delay Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3286-3290.	2.2	6
31	L_2 Interval Observers Design for Actuator Fault Detection of Discrete-Time Linear Switched Systems. , 2021, , .		0
32	Joint interval state and actuator fault estimation for linear discrete-time delayed systems. , 2021, , .		1
33	H_∞ interval observer design for uncertain discrete-time linear switched systems with unknown inputs. , 2021, , .		2
34	Interval Estimation for Discrete-Time Linear Parameter-Varying System with Unknown Inputs. , 2021, , .		0
35	Optimal interval observers for discrete-time linear switched systems. International Journal of Control, 2020, 93, 2613-2621.	1.2	35
36	A state augmentation approach to interval fault estimation for descriptor systems. European Journal of Control, 2020, 51, 19-29.	1.6	43

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37	Interval observer design for continuous-time switched systems under known switching and unknown inputs. <i>International Journal of Control</i> , 2020, 93, 1088-1101.	1.2	16
38	Fractional interval observers and initialization of fractional systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 82, 105030.	1.7	7
39	Prognosis of uncertain linear time-invariant discrete systems using unknown input interval observer. <i>International Journal of Control</i> , 2020, 93, 2690-2706.	1.2	6
40	A Convexity Approach to Dynamic Output Feedback Robust MPC for LPV Systems with Bounded Disturbances. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 1378-1391.	1.6	5
41	Robust Fault Detection for Switched Systems based on Interval Observers. , 2020, , .		2
42	Special issue on interval estimation applied to diagnosis and control of uncertain systems. <i>International Journal of Control</i> , 2020, 93, 2525-2527.	1.2	5
43	Interval observers based fault detection for switched systems with L_2 performances. , 2020, , .		4
44	Stability analysis and saturation control for nonlinear positive Markovian jump systems with randomly occurring actuator faults. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 5062-5100.	2.1	19
45	Interval estimation of state and unknown input for linear discrete-time systems. <i>Journal of the Franklin Institute</i> , 2020, 357, 9045-9062.	1.9	10
46	Interval estimation for continuous-time LPV switched systems. <i>International Journal of Control</i> , 2020, 93, 2622-2633.	1.2	3
47	Design of optimal interval observers using set-theoretic methods for robust state estimation. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 3692-3705.	2.1	12
48	A linear framework on the distributed model predictive control of positive systems. <i>Systems and Control Letters</i> , 2020, 138, 104665.	1.3	10
49	Observer-based output feedback robust MPC via zonotopic set-membership state estimation for LPV systems with bounded disturbances and noises. <i>Journal of the Franklin Institute</i> , 2020, 357, 7368-7398.	1.9	17
50	Robust Fault Detection for switched Takagi-Sugeno systems with unmeasurable premise variables: Interval-Observer-based approach. <i>IFAC-PapersOnLine</i> , 2020, 53, 7947-7952.	0.5	8
51	Fault Detection for Switched Systems based on Pole Assignment and Zonotopic Residual Evaluation. <i>IFAC-PapersOnLine</i> , 2020, 53, 4695-4700.	0.5	5
52	On Interval Observer Design for Continuous-Time LPV Switched Systems. <i>Acta Cybernetica</i> , 2020, 24, 539-555.	0.5	2
53	Partial and Full Order Interval Unknown Input State Estimators. , 2020, , .		1
54	On Fixed-Time Interval Estimation of Discrete-Time Nonlinear Time-Varying Systems With Disturbances. , 2020, , .		2

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55	Robust Output Feedback MPC: An Interval-Observer Approach. , 2020, , .		8
56	Ellipsoid-based sensor fault detection for discrete-time switched systems. , 2020, , .		0
57	Control strategy for the combustion optimization for waste-to-energy incineration plant. IFAC-PapersOnLine, 2020, 53, 13167-13172.	0.5	4
58	Interval estimation for linear discrete-time delay systems. IFAC-PapersOnLine, 2020, 53, 4798-4803.	0.5	8
59	Zonotope-based Interval Estimation for Discrete-Time Linear Switched Systems. IFAC-PapersOnLine, 2020, 53, 4707-4712.	0.5	9
60	Fast interval estimation for discrete-time systems based on fixed-time convergence. IFAC-PapersOnLine, 2020, 53, 4571-4575.	0.5	0
61	Fault Detection and Isolation for Continuous-time Switched Linear Systems: A Set Membership Approach. , 2020, , .		1
62	Interval Observer Design for Uncertain Discrete-Time Polytopic Systems. , 2020, , .		2
63	Interval observer design for continuous-time linear parameter-varying systems. Systems and Control Letters, 2019, 134, 104541.	1.3	40
64	Finite-time guaranteed state estimation for discrete-time systems with disturbances. , 2019, , .		4
65	Supervision of Nonlinear Networked Control Systems Under Network Constraints. , 2019, , .		2
66	Set-Membership Fault Detection for Continuous-time Switched Linear Systems. , 2019, , .		5
67	Interval Observers Design for Uncertain Multiple Model systems. , 2019, , .		4
68	Non-fragile saturation control of nonlinear positive Markov jump systems with time-varying delays. Nonlinear Dynamics, 2019, 97, 1495-1513.	2.7	47
69	Interval Estimation Methods for Discrete-Time Linear Time-Invariant Systems. IEEE Transactions on Automatic Control, 2019, 64, 4717-4724.	3.6	114
70	Saturation control of switched nonlinear systems. Nonlinear Analysis: Hybrid Systems, 2019, 32, 320-336.	2.1	42
71	Set-membership state estimation approach for discrete-time switched linear systems based on ellipsoidal approximation. , 2019, , .		1
72	Switching signal estimation based on interval observer for a class of switched linear systems. , 2019, , .		1

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73	Interval estimation for discrete-time LPV switched systems. , 2019, , .		3
74	Interval Prediction for Continuous-Time Systems with Parametric Uncertainties. , 2019, , .		8
75	Ellipsoid-based interval estimation for Takagi-Sugeno fuzzy systems. , 2019, , .		6
76	Interval estimation of switched Takagi-Sugeno systems with unmeasurable premise variables. IFAC-PapersOnLine, 2019, 52, 73-78.	0.5	5
77	Interval estimation for continuous-time switched linear systems. Automatica, 2018, 90, 230-238.	3.0	83
78	Some recent results on the design and implementation of interval observers for uncertain systems. Automatisierungstechnik, 2018, 66, 213-224.	0.4	41
79	Interval observer framework for fault-tolerant control of linear parameter-varying systems. International Journal of Control, 2018, 91, 524-533.	1.2	34
80	Model-based prognosis of fatigue crack growth under variable amplitude loading. IFAC-PapersOnLine, 2018, 51, 176-183.	0.5	1
81	Interval Observer Design for Actuator Fault Estimation of Linear Parameter-Varying Systems. IFAC-PapersOnLine, 2018, 51, 1199-1204.	0.5	6
82	Interval observers design for discrete-time linear switched systems. , 2018, , .		9
83	Filtering and Uncertainty Propagation Methods for Model-Based Prognosis of Fatigue Crack Growth in Unidirectional Fiber-Reinforced Composites. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2018, 4, 04018040.	1.1	5
84	Robust state estimation for singularly perturbed systems. International Journal of Control, 2017, 90, 566-579.	1.2	5
85	On Robust Pseudo State Estimation of Fractional Order Systems. Lecture Notes in Control and Information Sciences, 2017, , 97-111.	0.6	2
86	Model-based prognosis using an explicit degradation model and Inverse FORM for uncertainty propagation. IFAC-PapersOnLine, 2017, 50, 14242-14247.	0.5	4
87	Interval observer design for unknown input estimation of linear time-invariant discrete-time systems. IFAC-PapersOnLine, 2017, 50, 4021-4026.	0.5	22
88	Actuator Fault Compensation in a Set-membership Framework for Linear Parameter-Varying Systems. IFAC-PapersOnLine, 2017, 50, 4033-4038.	0.5	10
89	Interval observers design for continuous-time linear switched systems. IFAC-PapersOnLine, 2017, 50, 6259-6264.	0.5	30
90	Set-membership methodology for model-based prognosis. ISA Transactions, 2017, 66, 216-225.	3.1	19

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91	Model-based prognosis algorithms with uncertainty propagation: Application to fatigue crack growth. , 2016, , .		3
92	Set-membership methods applied to FDI and FTC. International Journal of Adaptive Control and Signal Processing, 2016, 30, 150-153.	2.3	6
93	Interval observer design for Linear Parameter-Varying systems subject to component faults. , 2016, , .		17
94	A note on interval observer design for unknown input estimation. International Journal of Control, 2016, 89, 25-37.	1.2	43
95	Fault detection in the distillation column process using Kullback Leibler divergence. ISA Transactions, 2016, 63, 394-400.	3.1	22
96	Design of interval observers for uncertain dynamical systems. Automation and Remote Control, 2016, 77, 191-225.	0.4	144
97	Design of interval observers for estimation and stabilization of discrete-time LPV systems. IMA Journal of Mathematical Control and Information, 2016, 33, 1051-1066.	1.1	26
98	Fault tolerant control in a set-membership framework. , 2016, , .		2
99	Interval observers for continuous-time LPV systems with \mathcal{L}_2 performance. Automatica, 2015, 58, 82-89.	3.0	151
100	Set-membership fault detection under noisy environment with application to the detection of abnormal aircraft control surface positions. International Journal of Control, 2015, 88, 1878-1894.	1.2	6
101	Set-membership methodology for model-based systems prognosis. IFAC-PapersOnLine, 2015, 48, 302-307.	0.5	3
102	Computing reachable sets for nonlinear systems in presence of bounded uncertainties. , 2014, , .		2
103	Set Adaptive Observers for Linear Parameter-Varying Systems: Application to Fault Detection. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	9
104	Non-minimum phase switched systems: HOSM-based fault detection and fault identification via Volterra integral equation. International Journal of Adaptive Control and Signal Processing, 2014, 28, 1372-1397.	2.3	19
105	Interval observers design for singularly perturbed systems. , 2014, , .		5
106	An effective method to interval observer design for time-varying systems. Automatica, 2014, 50, 2677-2684.	3.0	78
107	Set-membership fault detection under noisy environment in aircraft control surface servo-loops. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8265-8271.	0.4	2
108	Interval State and Unknown Inputs Estimation for Linear Time-Invariant Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7375-7381.	0.4	17

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109	Interval Observers for Time-Varying Discrete-Time Systems. IEEE Transactions on Automatic Control, 2013, 58, 3218-3224.	3.6	160
110	Interval state observer for nonlinear time varying systems. Automatica, 2013, 49, 200-205.	3.0	227
111	Control of Nonlinear and LPV Systems: Interval Observer-Based Framework. IEEE Transactions on Automatic Control, 2013, 58, 773-778.	3.6	167
112	Estimation and control of discrete-time LPV systems using interval observers. , 2013, , .		19
113	Actuator fault diagnosis for flat systems: A constraint satisfaction approach. International Journal of Applied Mathematics and Computer Science, 2013, 23, 171-181.	1.5	12
114	On Interval Observer Design for a Class of Continuous-Time LPV Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 68-73.	0.4	24
115	On interval observer design for time-invariant discrete-time systems. , 2013, , .		68
116	Design of interval observers for LPV systems subject to exogenous disturbances. , 2013, , .		10
117	State Estimation for Linear Switched Systems with Unknown Inputs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 271-276.	0.4	5
118	Robust Fault Diagnosis based on Constraint Satisfaction and Interval Continuous-time Parity Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1293-1298.	0.4	4
119	Application of Interval Observers and HOSM Differentiators for Fault Detection. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 516-521.	0.4	6
120	State Estimation and Fault Detection for Linear Switched Systems with Unstable Internal Dynamics*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 522-527.	0.4	1
121	Interval estimation for LPV systems applying high order sliding mode techniques. Automatica, 2012, 48, 2365-2371.	3.0	171
122	Set-membership estimation improvement applying HOSM differentiators. , 2012, , .		0
123	Interval State Estimation for a Class of Nonlinear Systems. IEEE Transactions on Automatic Control, 2012, 57, 260-265.	3.6	385
124	On set-membership observer design for a class of periodical time-varying systems. , 2012, , .		6
125	Robust estimation of fractional models in the frequency domain using set membership methods. Signal Processing, 2012, 92, 1591-1601.	2.1	28
126	Stabilisation robuste d'une classe de systÃmes non linÃaires incertains. Journal Europeen Des Systemes Automatises, 2012, 46, 335-348.	0.3	0

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127	Change detection in flat systems by constraint satisfaction techniques. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12009-12014.	0.4	1
128	Robust state estimation for flat systems using set-membership techniques. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7450-7455.	0.4	0
129	HYBRID UNKNOWN INPUT OBSERVER FOR ACTUATOR FAULT DETECTION AND COMPENSATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4356-4361.	0.4	0
130	Actuator fault detection and compensation under feedback control. Automatica, 2011, 47, 1699-1705.	3.0	74
131	Reliable amplitude and frequency estimation for biased and noisy signals. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4153-4157.	1.7	3
132	Stabilization of nonlinear uncertain systems based on interval observers. , 2011, , .		10
133	MONOTONE ADAPTIVE SET OBSERVERS FOR NONLINEAR CONTINUOUS-TIME SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 54-59.	0.4	0
134	Phase Resetting Control Based On Direct Phase Response Curve. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 332-337.	0.4	0
135	Interval observer design for consistency checks of nonlinear continuous-time systems. Automatica, 2010, 46, 518-527.	3.0	145
136	Set membership parameter estimation of fractional models based on bounded frequency domain data. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 927-938.	1.7	28
137	Comparison between two set membership methods for frequency domain system identification using fractional models. , 2010, , .		1
138	Robust fault detection based on adaptive set observers. , 2010, , .		0
139	Adaptive set observers design for fault detection and diagnosis. , 2010, , .		2
140	Guaranteed state estimation for nonlinear continuous-time systems based on qLPV approximations. , 2009, , .		1
141	Set membership parameter estimation in the frequency domain based on complex intervals. International Journal of Control, Automation and Systems, 2009, 7, 824-834.	1.6	6
142	Set membership estimation of fractional models in the frequency domain. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4078-4083.	0.4	2
143	ROBUST NONLINEAR CONTINUOUS-TIME STATE ESTIMATION USING INTERVAL TAYLOR MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 691-696.	0.4	1
144	Complex Interval Arithmetic Using Polar Form. Reliable Computing, 2006, 12, 1-20.	0.8	33

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145	SET MEMBERSHIP PARAMETER IDENTIFICATION WITH COMPLEX INTERVALS USING POLAR FORMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 1221-1226.	0.4	0
146	Bounded error moving horizon state estimator for non-linear continuous-time systems: application to a bioprocess system. Journal of Process Control, 2005, 15, 537-545.	1.7	50
147	Complex Interval Constraint Propagation for Non Linear Bounded-Error Parameter Identification. , 2005, , .		1
148	Set membership state and parameter estimation for systems described by nonlinear differential equations. Automatica, 2004, 40, 1771-1777.	3.0	149
149	Guaranteed method for the estimation of dielectric relaxation model parameters. , 2004, , .		1
150	State Estimation for Nonlinear Continuous Systems in a Bounded-Error Context. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1687-1692.	0.4	0
151	Multimodel analysis and control of multivariable systems. , 0, , .		2
152	Parameter estimation for non-linear continuous-time systems in a bounded error context. , 0, , .		2