

Rafael MartÃ- nez-Guerra

List of Publications by Year in descending order

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65
papers

639
citations

623188

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all docs

65
docs citations

65
times ranked

493
citing authors

#	ARTICLE	IF	CITATIONS
1	A chaotic system in synchronization and secure communications. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 1706-1713.	1.7	73
2	CHAOTIC SYNCHRONIZATION AND SECURE COMMUNICATION VIA SLIDING-MODE OBSERVER. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 235-243.	0.7	42
3	Fractional generalized synchronization in a class of nonlinear fractional order systems. <i>Nonlinear Dynamics</i> , 2014, 77, 1237-1244.	2.7	38
4	Secure communications via synchronization of Liouvillian chaotic systems. <i>Journal of the Franklin Institute</i> , 2016, 353, 4384-4399.	1.9	32
5	On nonlinear systems diagnosis using differential and algebraic methods. <i>Journal of the Franklin Institute</i> , 2008, 345, 102-118.	1.9	29
6	Synchronization of Integral and Fractional Order Chaotic Systems. <i>Understanding Complex Systems</i> , 2015, , .	0.3	28
7	Nonlinear observer for synchronization of chaotic systems with application to secure data transmission. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1541-1548.	1.2	25
8	High order sliding-mode dynamic control for chaotic intracellular calcium oscillations. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 217-231.	0.9	20
9	Partial synchronization of different chaotic oscillators using robust PID feedback. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 572-581.	2.5	19
10	Synchronization of chaotic Liouvillian systems: An application to Chua's oscillator. <i>Applied Mathematics and Computation</i> , 2013, 219, 10934-10944.	1.4	17
11	A novel Mittag-Leffler stable estimator for nonlinear fractional-order systems: a linear quadratic regulator approach. <i>Nonlinear Dynamics</i> , 2018, 94, 1973-1986.	2.7	17
12	Synchronization of a class of chaotic signals via robust observer design. <i>Chaos, Solitons and Fractals</i> , 2008, 37, 581-587.	2.5	16
13	Fault diagnosis in nonlinear systems: An application to a three-tank system. , 2008, , .		16
14	Synchronization and parameter estimations of an uncertain Rikitake system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 3625-3628.	0.9	16
15	State estimation for nonlinear systems under model unobservable uncertainties: application to continuous reactor. <i>Chemical Engineering Journal</i> , 2005, 108, 139-144.	6.6	15
16	Synchronization of nonlinear fractional order systems. <i>Applied Mathematics and Computation</i> , 2011, 218, 3338-3347.	1.4	14
17	Monitoring in a predator-prey systems via a class of high order observer design. <i>BioSystems</i> , 2010, 100, 65-69.	0.9	13
18	Asymptotic output tracking of a class of nonlinear systems by means of an observer. <i>International Journal of Robust and Nonlinear Control</i> , 2001, 11, 373-391.	2.1	12

#	ARTICLE	IF	CITATIONS
19	On the parameters identification of the Duffing's system by means of a reduced order observer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 331, 316-324.	0.9	12
20	A new model-free sliding observer to synchronization problem. Chaos, Solitons and Fractals, 2008, 36, 1141-1156.	2.5	12
21	Synchronization of nonlinear fractional order systems by means of PI reduced order observer. Applied Mathematics and Computation, 2015, 262, 224-231.	1.4	12
22	Generalized multi-synchronization: A leader-following consensus problem of multi-agent systems. Neurocomputing, 2017, 233, 52-60.	3.5	12
23	Colour image encryption via fractional chaotic state estimation. IET Image Processing, 2018, 12, 1913-1920.	1.4	12
24	Feedback regulation of an industrial aerobic wastewater plant. Chemical Engineering Journal, 2008, 139, 475-481.	6.6	11
25	Asymptotic synchronization of the Colpitts oscillator. Computers and Mathematics With Applications, 2012, 63, 1072-1078.	1.4	11
26	Generalized multi-synchronization viewed as a multi-agent leader-following consensus problem. Applied Mathematics and Computation, 2016, 282, 226-236.	1.4	11
27	Reduced-order fractional integral observer for synchronisation and anti-synchronisation of fractional-order chaotic systems. IET Control Theory and Applications, 2018, 12, 1755-1762.	1.2	10
28	A numerical estimation of the fractional-order Liouvillian systems and its application to secure communications. International Journal of Systems Science, 2019, 50, 791-806.	3.7	10
29	Fractional dynamical controllers for generalized multi-synchronization of commensurate fractional order Liouvillian chaotic systems. Journal of the Franklin Institute, 2017, 354, 3054-3096.	1.9	9
30	Synchronization and anti-synchronization of chaotic systems: A differential and algebraic approach. Chaos, Solitons and Fractals, 2009, 42, 840-846.	2.5	7
31	Synchronization of incommensurate fractional order system. Applied Mathematics and Computation, 2015, 262, 260-266.	1.4	7
32	Advances in Synchronization of Coupled Fractional Order Systems. Understanding Complex Systems, 2018, , .	0.3	7
33	Generalized synchronization via the differential primitive element. Applied Mathematics and Computation, 2014, 232, 848-857.	1.4	6
34	Monitoring of an industrial wastewater plant employing finite-time convergence observer. Journal of Chemical Technology and Biotechnology, 2006, 81, 851-857.	1.6	5
35	Chaos suppression via observer based active control scheme: Application to Duffing's oscillator. Chaos, Solitons and Fractals, 2007, 32, 1887-1897.	2.5	5
36	Uniformly Bounded Error Estimator for Bioprocess with Unstructured Cell Growth Models. Chemical Product and Process Modeling, 2009, 4, .	0.5	5

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37	Nonlinear estimation in a class of gene transcription process. Applied Mathematics and Computation, 2014, 226, 131-144.	1.4	5
38	Synchronization of an uncertain chaotic system based on sliding mode control. , 2010, , .		3
39	A new observer for nonlinear fractional order systems. , 2011, , .		3
40	A dynamical controller with fault-tolerance: Real-time experiments. Journal of the Franklin Institute, 2017, 354, 3378-3404.	1.9	3
41	A fractional exponential polynomial state observer in secure communications. , 2017, , .		3
42	An observer for the synchronization of chaotic Liouvillian systems: A real-time application to Chua's oscillator. , 2012, , .		2
43	Recent advances and applications in neural networks and intelligent control. Neurocomputing, 2017, 233, 1-2.	3.5	2
44	Estimators for a class of commensurate fractional order systems with caputo derivative. , 2017, , .		2
45	Fault reconstruction for nonlinear systems using sliding mode observers. , 2007, , .		1
46	Fault diagnosis by means of sliding mode techniques. , 2007, , .		1
47	Generalized synchronization between Colpitts and Chua circuits. , 2013, , .		1
48	Multisynchronization of Chaotic Oscillators via Nonlinear Observer Approach. Scientific World Journal, The, 2014, 2014, 1-5.	0.8	1
49	Generalized synchronization via multi-agent systems. , 2015, , .		1
50	A Robust State Estimation for Fractional-Order Liouvillian Systems: with Application to Secure Communications. IFAC-PapersOnLine, 2018, 51, 97-102.	0.5	1
51	Synchronization for a class of nondifferentially flat chaotic systems by means of a PI Observer. , 2018, , .		1
52	Synchronization of Multiple Mechanical Oscillators Under Noisy Measurements Signals and Mismatch Parameters. International Journal of Nonlinear Sciences and Numerical Simulation, 2018, 19, 699-707.	0.4	1
53	Fractional-order nonlinear systems with fault tolerance. , 2018, , .		1
54	Generalized Multi-synchronization of the attitude angle for flexible aircraft. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
55	A New Model-Free Sliding Observer to Synchronization Problem. , 2006, , .		0
56	Synchronization of chaotic Liouvillian systems. , 2011, , .		0
57	A Synchronization Scheme for Partially Known Nonlinear Fractional Order Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 149-153.	0.4	0
58	Fault estimation using a polynomial observer: A real-time application. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 552-557.	0.4	0
59	Fault-tolerant asymptotic output tracking: An application to the three-tank system. , 2015, , .		0
60	Color image encryption using chaotic systems synchronization. , 2016, , .		0
61	Fault-tolerant dynamical controller with some experimental results. , 2016, , .		0
62	Some remarks on Gronwall-Bellman Lemma for stabilization of input-affine systems. , 2017, , .		0
63	Robust State-Estimation for Fractional-Order Liouvillian Systems. , 2018, , .		0
64	Closed-loop asymptotic stability for a α -differentiator by means of a fractional dynamic control. , 2018, , .		0
65	Dynamical distributed controller for the synchronization problem of integer and fractional order partial differential equation systems. Transactions of the Institute of Measurement and Control, 0, , 014233122110320.	1.1	0