Rafael MartÃ-nez-Guerra

List of Publications by Year
in descending order

65 papers	639 citations	623188 14 h-index	642321 23 g-index
65 all docs	65 docs citations	65 times ranked	493 citing authors

#	Article	IF	Citations
1	Generalized Multi-synchronization of the attitude angle for flexible aircraft. , 2020, , .		1
2	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
3	A Robust State Estimation for Fractional-Order Liouvillian Systems: with Application to Secure Communications. IFAC-PapersOnLine, 2018, 51, 97-102.	0.5	1
4	Robust State-Estimation for Fractional-Order Liouvillian Systems. , 2018, , .		0
5	Synchronization for a class of nondifferentially flat chaotic systems by means of a PI Observer. , 2018, , .		1
6	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
7	Closed-loop asymptotic stability for a $nalpha$-differentiator by means of a fractional dynamic control. , 2018, , .		0
8	Colour image encryption via fractional chaotic state estimation. IET Image Processing, 2018, 12, 1913-1920.	1.4	12
9	Reducedâ€order fractional integral observer for synchronisation and antiâ€synchronisation of fractionalâ€order chaotic systems. IET Control Theory and Applications, 2018, 12, 1755-1762.	1.2	10
10	A novel Mittagâ€"Leffler stable estimator for nonlinear fractional-order systems: a linear quadratic regulator approach. Nonlinear Dynamics, 2018, 94, 1973-1986.	2.7	17
11	Fractional-order nonlinear systems with fault tolerance. , 2018, , .		1
12	Advances in Synchronization of Coupled Fractional Order Systems. Understanding Complex Systems, 2018, , .	0.3	7
13	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
14	A dynamical controller with fault-tolerance: Real-time experiments. Journal of the Franklin Institute, 2017, 354, 3378-3404.	1.9	3
15	Generalized multi-synchronization: A leader-following consensus problem of multi-agent systems. Neurocomputing, 2017, 233, 52-60.	3.5	12
16	Recent advances and applications in neural networks and intelligent control. Neurocomputing, 2017, 233, 1-2.	3.5	2
17	A fractional exponential polinomial state observer in secure communications. , 2017, , .		3
18	Estimators for a class of commensurate fractional order systems with caputo derivative. , 2017, , .		2

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19	Some remarks on Gronwall-Bellman Lemma for stabilization of input-affine systems. , 2017, , .		0
20	Color image encryption using chaotic systems synchronization. , 2016, , .		0
21	Generalized multi-synchronization viewed as a multi-agent leader-following consensus problem. Applied Mathematics and Computation, 2016, 282, 226-236.	1.4	11
22	Secure communications via synchronization of Liouvillian chaotic systems. Journal of the Franklin Institute, 2016, 353, 4384-4399.	1.9	32
23	Fault-tolerant dynamical controller with some experimental results. , 2016, , .		0
24	Generalized synchronization via multi-agent systems. , 2015, , .		1
25	Fault-tolerant asymptotic output tracking: An application to the three-tank system. , 2015, , .		0
26	Synchronization of incommensurate fractional order system. Applied Mathematics and Computation, 2015, 262, 260-266.	1.4	7
27	Synchronization of nonlinear fractional order systems by means of PIrÎ± reduced order observer. Applied Mathematics and Computation, 2015, 262, 224-231.	1.4	12
28	Synchronization of Integral and Fractional Order Chaotic Systems. Understanding Complex Systems, 2015, , .	0.3	28
29	Multisynchronization of Chaotic Oscillators via Nonlinear Observer Approach. Scientific World Journal, The, 2014, 2014, 1-5.	0.8	1
30	Nonlinear estimation in a class of gene transcription process. Applied Mathematics and Computation, 2014, 226, 131-144.	1.4	5
31	Fractional generalized synchronization in a class of nonlinear fractional order systems. Nonlinear Dynamics, 2014, 77, 1237-1244.	2.7	38
32	Nonlinear observer for synchronization of chaotic systems with application to secure data transmission. European Physical Journal: Special Topics, 2014, 223, 1541-1548.	1.2	25
33	Generalized synchronization via the differential primitive element. Applied Mathematics and Computation, 2014, 232, 848-857.	1.4	6
34	Synchronization of chaotic Liouvillian systems: An application to Chuaâ€™s oscillator. Applied Mathematics and Computation, 2013, 219, 10934-10944.	1.4	17
35	Generalized synchronization between Colpitts and Chua circuits. , 2013, , .		1
36	An observer for the synchronization of chaotic Liouvillian systems: A real-time application to Chua's oscillator. , 2012, , .		2

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37	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
38	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
39	Asymptotic synchronization of the Colpitts oscillator. Computers and Mathematics With Applications, 2012, 63, 1072-1078.	1.4	11
40	A chaotic system in synchronization and secure communications. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1706-1713.	1.7	73
41	Synchronization of chaotic Liouvillian systems. , 2011, , .		0
42	A new observer for nonlinear fractional order systems. , 2011, , .		3
43	Synchronization of nonlinear fractional order systems. Applied Mathematics and Computation, 2011, 218, 3338-3347.	1.4	14
44	Synchronization and parameter estimations of an uncertain Rikitake system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3625-3628.	0.9	16
45	High order sliding-mode dynamic control for chaotic intracellular calcium oscillations. Nonlinear Analysis: Real World Applications, 2010, 11, 217-231.	0.9	20
46	Monitoring in a predatorâ€"prey systems via a class of high order observer design. BioSystems, 2010, 100, 65-69.	0.9	13
47	Synchronization of an uncertain chaotic system based on sliding mode control. , 2010, , .		3
48	Uniformly Bounded Error Estimator for Bioprocess with Unstructured Cell Growth Models. Chemical Product and Process Modeling, 2009, 4, .	0.5	5
49	Synchronization and anti-synchronization of chaotic systems: A differential and algebraic approach. Chaos, Solitons and Fractals, 2009, 42, 840-846.	2.5	7
50	On nonlinear systems diagnosis using differential and algebraic methods. Journal of the Franklin Institute, 2008, 345, 102-118.	1.9	29
51	Feedback regulation of an industrial aerobic wastewater plant. Chemical Engineering Journal, 2008, 139, 475-481.	6.6	11
52	A new model-free sliding observer to synchronization problem. Chaos, Solitons and Fractals, 2008, 36, 1141-1156.	2.5	12
53	Synchronization of a class of chaotic signals via robust observer design. Chaos, Solitons and Fractals, 2008, 37, 581-587.	2.5	16
54	Fault diagnosis in nonlinear systems: An application to a three-tank system. , 2008, , .		16

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55	CHAOTIC SYNCHRONIZATION AND SECURE COMMUNICATION VIA SLIDING-MODE OBSERVER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 235-243.	0.7	42
56	Fault reconstruction for nonlinear systems using sliding mode observers. , 2007, , .		1
57	Fault diagnosis by means of sliding mode techniques. , 2007, , .		1
58	Chaos suppression via observer based active control scheme: Application to Duffingâ€™s oscillator. Chaos, Solitons and Fractals, 2007, 32, 1887-1897.	2.5	5
59	Partial synchronization of different chaotic oscillators using robust PID feedback. Chaos, Solitons and Fractals, 2007, 33, 572-581.	2.5	19
60	Monitoring of an industrial wastewater plant employing finite-time convergence observer. Journal of Chemical Technology and Biotechnology, 2006, 81, 851-857.	1.6	5
61	A New Model-Free Sliding Observer to Synchronization Problem. , 2006, , .		0
62	State estimation for nonlinear systems under model unobservable uncertainties: application to continuous reactor. Chemical Engineering Journal, 2005, 108, 139-144.	6.6	15
63	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
64	Asymptotic output tracking of a class of nonlinear systems by means of an observer. International Journal of Robust and Nonlinear Control, 2001, 11, 373-391.	2.1	12
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