Driss Boutat

List of Publications by Year
in descending order

30	713	516561 16	526166 27
papers	citations	h-index	g-index

30	30	30	354
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A triangular canonical form for a class of 0-flat nonlinear systems. International Journal of Control, 2011, 84, 261-269.	1.2	118
2	An observation algorithm for nonlinear systems with unknown inputs. Automatica, 2009, 45, 1970-1974.	3.0	54
3	On Observation of Time-Delay Systems With Unknown Inputs. IEEE Transactions on Automatic Control, 2011, 56, 1973-1978.	3.6	52
4	New algorithm for observer error linearization with a diffeomorphism on the outputs. Automatica, 2009, 45, 2187-2193.	3.0	51
5	An algebraic fractional order differentiator for a class of signals satisfying a linear differential equation. Signal Processing, 2015, 116, 78-90.	2.1	46
6	On the transformation of nonlinear dynamical systems into the extended nonlinear observable canonical form. International Journal of Control, 2011, 84, 94-106.	1.2	44
7	Observability of the discrete state for dynamical piecewise hybrid systems. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, 423-438.	0.6	41
8	Identification of the delay parameter for nonlinear time-delay systems with unknown inputs. Automatica, 2013, 49, 1755-1760.	3.0	41
9	Extended output depending normal form. Automatica, 2013, 49, 2192-2198.	3.0	27
10	Secure communication based on multi-input multi-output chaotic system with large message amplitude. Chaos, Solitons and Fractals, 2009, 41, 1510-1517.	2.5	26
11	A Unified Framework of Stability Theorems for LTI Fractional Order Systems With 0 < Î± < 2. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3237-3241.	2.2	25
12	Sliding mode observers and observability singularity in chaotic synchronization. Mathematical Problems in Engineering, 2004, 2004, 11-31.	0.6	24
13	SECURE DATA TRANSMISSION BASED ON MULTI-INPUT MULTI-OUTPUT DELAYED CHAOTIC SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2063-2072.	0.7	22
14	Multi-output dependent observability normal form. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 404-418.	0.6	20
15	Extended nonlinear observer normal forms for a class of nonlinear dynamical systems. International Journal of Robust and Nonlinear Control, 2015, 25, 461-474.	2.1	20
16	Variable-order fractional numerical differentiation for noisy signals by wavelet denoising. Journal of Computational Physics, 2016, 311, 338-347.	1.9	20
17	NEW TYPE OF DATA TRANSMISSION USING A SYNCHRONIZATION OF CHAOTIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 207-223.	0.7	14
18	A new reduced-order observer normal form for nonlinear discrete time systems. Systems and Control Letters, 2012, 61, 1003-1008.	1.3	12

#	Article	IF	Citations
19	Failure detection and reconstruction in switched nonlinear systems. Nonlinear Analysis: Hybrid Systems, 2009, 3, 225-238.	2.1	11
20	Partial observer normal form for nonlinear system. Automatica, 2016, 64, 54-62.	3.0	11
21	Observability and observer design for a class of switched systems. IET Control Theory and Applications, 2011, 5, 1113-1119.	1.2	9
22	Poincarï¿½ Normal Form for a Class of Driftless Systems in a One-Dimensional Submanifold Neighborhood. Mathematics of Control, Signals, and Systems, 2002, 15, 256-274.	1.4	4
23	Observability analysis by PoincarÃ© normal forms. Mathematics of Control, Signals, and Systems, 2009, 21, 147-170.	1.4	4
24	On the inversion of a class of nonlinear systems. Systems and Control Letters, 2015, 83, 38-44.	1.3	4
25	Observer normal forms for a class of Predatorâ€“Prey models. Journal of the Franklin Institute, 2016, 353, 2178-2198.	1.9	4
26	Observer design for a class of nonlinear piecewise systems. Application to an epidemic model with treatment. Mathematical Biosciences, 2016, 271, 128-135.	0.9	4
27	On uniform controller design for linear switched systems. Nonlinear Analysis: Hybrid Systems, 2010, 4, 189-198.	2.1	2
28	Utility of highâ€order sliding mode differentiators for dynamical left inversion problems. IET Control Theory and Applications, 2015, 9, 538-544.	1.2	1
29	Observer design for a class of nonâ€linear systems with linearisable error dynamics. IET Control Theory and Applications, 2015, 9, 2298-2304.	1.2	1
30	Algorithm to Compute Nonlinear Partial Observer Normal Form With Multiple Outputs. IEEE Transactions on Automatic Control, 2020, 65, 2700-2707.	3.6	1