

Driss Boutat

List of Publications by Year in descending order

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papers

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citations

516710

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526287

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30
times ranked

354
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. | 1.9 | 118 |
| 2 | An observation algorithm for nonlinear systems with unknown inputs. Automatica, 2009, 45, 1970-1974. | 5.0 | 54 |
| 3 | On Observation of Time-Delay Systems With Unknown Inputs. IEEE Transactions on Automatic Control, 2011, 56, 1973-1978. | 5.7 | 52 |
| 4 | New algorithm for observer error linearization with a diffeomorphism on the outputs. Automatica, 2009, 45, 2187-2193. | 5.0 | 51 |
| 5 | An algebraic fractional order differentiator for a class of signals satisfying a linear differential equation. Signal Processing, 2015, 116, 78-90. | 3.7 | 46 |
| 6 | On the transformation of nonlinear dynamical systems into the extended nonlinear observable canonical form. International Journal of Control, 2011, 84, 94-106. | 1.9 | 44 |
| 7 | Observability of the discrete state for dynamical piecewise hybrid systems. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, 423-438. | 1.1 | 41 |
| 8 | Identification of the delay parameter for nonlinear time-delay systems with unknown inputs. Automatica, 2013, 49, 1755-1760. | 5.0 | 41 |
| 9 | Extended output depending normal form. Automatica, 2013, 49, 2192-2198. | 5.0 | 27 |
| 10 | Secure communication based on multi-input multi-output chaotic system with large message amplitude. Chaos, Solitons and Fractals, 2009, 41, 1510-1517. | 5.1 | 26 |
| 11 | A Unified Framework of Stability Theorems for LTI Fractional Order Systems With $0 < \hat{\alpha} < 2$. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3237-3241. | 3.0 | 25 |
| 12 | Sliding mode observers and observability singularity in chaotic synchronization. Mathematical Problems in Engineering, 2004, 2004, 11-31. | 1.1 | 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. | 1.7 | 22 |
| 14 | Multi-output dependent observability normal form. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 404-418. | 1.1 | 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. | 3.7 | 20 |
| 16 | Variable-order fractional numerical differentiation for noisy signals by wavelet denoising. Journal of Computational Physics, 2016, 311, 338-347. | 3.8 | 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. | 1.7 | 14 |
| 18 | A new reduced-order observer normal form for nonlinear discrete time systems. Systems and Control Letters, 2012, 61, 1003-1008. | 2.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Failure detection and reconstruction in switched nonlinear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2009, 3, 225-238. | 3.5 | 11 |
| 20 | Partial observer normal form for nonlinear system. <i>Automatica</i> , 2016, 64, 54-62. | 5.0 | 11 |
| 21 | Observability and observer design for a class of switched systems. <i>IET Control Theory and Applications</i> , 2011, 5, 1113-1119. | 2.1 | 9 |
| 22 | Poincaré Normal Form for a Class of Driftless Systems in a One-Dimensional Submanifold Neighborhood. <i>Mathematics of Control, Signals, and Systems</i> , 2002, 15, 256-274. | 2.3 | 4 |
| 23 | Observability analysis by Poincaré normal forms. <i>Mathematics of Control, Signals, and Systems</i> , 2009, 21, 147-170. | 2.3 | 4 |
| 24 | On the inversion of a class of nonlinear systems. <i>Systems and Control Letters</i> , 2015, 83, 38-44. | 2.3 | 4 |
| 25 | Observer normal forms for a class of Predator-Prey models. <i>Journal of the Franklin Institute</i> , 2016, 353, 2178-2198. | 3.4 | 4 |
| 26 | Observer design for a class of nonlinear piecewise systems. Application to an epidemic model with treatment. <i>Mathematical Biosciences</i> , 2016, 271, 128-135. | 1.9 | 4 |
| 27 | On uniform controller design for linear switched systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2010, 4, 189-198. | 3.5 | 2 |
| 28 | Utility of high-order sliding mode differentiators for dynamical left inversion problems. <i>IET Control Theory and Applications</i> , 2015, 9, 538-544. | 2.1 | 1 |
| 29 | Observer design for a class of nonlinear systems with linearisable error dynamics. <i>IET Control Theory and Applications</i> , 2015, 9, 2298-2304. | 2.1 | 1 |
| 30 | Algorithm to Compute Nonlinear Partial Observer Normal Form With Multiple Outputs. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2700-2707. | 5.7 | 1 |