Dalil Ichalal

List of Publications by Year in descending order

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623188 552369 1,178 91 14 26 h-index citations g-index papers 91 91 91 615 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	Quadcopter Trajectory Tracking in the Presence of 4 Faulty Actuators: A Nonlinear MHE and MPC Approach., 2022, 6, 2024-2029.		7
2	A Unified Framework for Asymptotic Observer Design of Fuzzy Systems With Unmeasurable Premise Variables. IEEE Transactions on Fuzzy Systems, 2021, 29, 2938-2948.	6. 5	31
3	Robust Actuator Fault Diagnosis for LPV systems: Application to Quadrotor. , 2021, , .		3
4	State and fault estimation of a class of nonlinear systems with slow internal dynamics: Asymptotic Decoupling approach. IFAC-PapersOnLine, 2021, 54, 130-134.	0.5	0
5	Robust Sensor Fault Estimation for LPV systems: Application to Quadrotor UAV., 2021,,.		O
6	State and Unknown Input <i>H</i> _{<i>â^ž</i>} Observers for Discreteâ€Time LPV Systems. Asian Journal of Control, 2020, 22, 49-62.	1.9	7
7	An easy design for interval observers. International Journal of Control, 2020, 93, 2896-2907.	1.2	2
8	A new unbiased minimum variance observer for stochastic LTV systems with unknown inputs. IMA Journal of Mathematical Control and Information, 2020, 37, 475-496.	1.1	1
9	On Unknown Input Observers of Linear Systems: Asymptotic Unknown Input Decoupling Approach. IEEE Transactions on Automatic Control, 2020, 65, 1197-1202.	3.6	12
10	Asymptotic Unknown Input Decoupling Observer for Discrete-Time LTI Systems. , 2020, 4, 361-366.		7
11	Interval state estimation for uncertain polytopic systems. International Journal of Control, 2020, 93, 2564-2576.	1.2	3
12	Vehicle Lateral Velocity and Lateral Tire-road Forces Estimation Based on Switched Interval Observers. , 2020, , .		1
13	Zonotopic set-membership estimation for Switched Systems based on Wi-Radius Minimization: Vehicle application. IFAC-PapersOnLine, 2020, 53, 7446-7451.	0.5	7
14	A maximum likelihood estimator for switching linear systems with unknown inputs. Automatica, 2019, 108, 108490.	3.0	2
15	Interval Observer-Based Controller Design for Systems with State Constraints: Application to Solid Oxide Fuel Cells Stacks. , 2019, , .		5
16	Quadrotor Control and Actuator Fault Detection: LQG Versus Robust $H_{-}/H_{infty}\$ observer. , 2019, , .		9
17	Polytopic Models for Observer and Fault-Tolerant Control Designs. , 2019, , 295-335.		1
18	Steering and Lateral Motorcycle Dynamics Estimation: Validation of Luenberger LPV Observer Approach. IEEE Transactions on Intelligent Vehicles, 2019, 4, 277-286.	9.4	5

#	Article	lF	Citations
19	An Unknown Input Switched Functional Interval Observer for Vehicle Lateral Velocity Estimation. , 2019, , .		5
20	Decoupling Unknown Input Observer for nonlinear quasi-LPV systems. , 2019, , .		6
21	Interval Observer Design for Switched Systems with State and Output Uncertainties: Application to vehicle sideslip angle estimation. , 2019 , , .		3
22	An Interval Algebraic Approach for vehicle lateral tire forces estimation. , 2019, , .		1
23	Unknown input observer for LPV systems. Automatica, 2019, 100, 67-74.	3.0	42
24	State estimation of system with bounded uncertain parameters: Interval multimodel approach. International Journal of Adaptive Control and Signal Processing, 2018, 32, 480-493.	2.3	10
25	Interval observer for LPV systems with unknown inputs. IET Control Theory and Applications, 2018, 12, 649-660.	1.2	31
26	How to cope with unmeasurable premise variables in Takagi–Sugeno observer design: Dynamic extension approach. Engineering Applications of Artificial Intelligence, 2018, 67, 430-435.	4.3	38
27	Performance Measure of Vehicle Onboard Vision System: An Interval Observer-based Approach. , 2018, ,		0
28	Robust Fault Detection for Vehicle Lateral Dynamics: A Zonotope-based Set-membership Approach. , 2018, , .		1
29	Road Geometry and Steering Reconstruction for Powered Two Wheeled Vehicles. , 2018, , .		2
30	Observers for switching discrete-time linear systems with Unknown Inputs and unknown switching sequence. , $2018, , .$		0
31	Robust interval observer for switched systems with unknown inputs: Application to vehicle dynamics estimation. European Journal of Control, 2018, 44, 3-14.	1.6	31
32	Interval observer for bilinear systems with unknown inputs. , 2018, , .		1
33	State Estimation and Fault Detection for 2-D Discrete-Time Systems. , 2018, , .		0
34	Interval observer for nonlinear Lipschitz systems with unknown inputs. , 2018, , .		4
35	Vehicle Lateral Dynamics Estimation using Switched Unknown Inputs Interval Observers: Experimental Validation. , 2018, , .		3
36	Synchronous interval observer design for switched LPV systems using multiple quadratic ISS-Lyapunov functions. , $2017, \dots$		15

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37	PI observer robust fault estimation for motorcycle lateral dynamics., 2017,,.		1
38	Toward a Robust Motorcycle Braking. IEEE Transactions on Control Systems Technology, 2017, 25, 1052-1059.	3.2	3
39	Lateral & Dynamics Estimation for Single Track Vehicle: Experimental Tests * *This work is supported by National Agency of Research under the framework VIROLO++ IFAC-PapersOnLine, 2017, 50, 3400-3405.	0.5	6
40	A new Minimum Variance Observer for Stochastic LPV systems with Unknown Inputs * *This work is supported by the CNES (Centre National d'Etudes spatiales), France. IFAC-PapersOnLine, 2017, 50, 4947-4953.	0.5	2
41	Interval observer for LPV systems: Application to vehicle lateral dynamics. IFAC-PapersOnLine, 2017, 50, 7572-7577.	0.5	5
42	Rider weight consideration for observer design with an application to the estimation of the lateral motorcycle dynamics and rider's action. , 2017 , , .		2
43	Guaranteed state and unknown input estimations for linear time-invariant systems with direct feedthrough using interval observers. , 2017, , .		3
44	Minimum variance unbiased observer of a continuous LPV system with unknown input., 2017,,.		2
45	Cascaded flatness-based observation approach for lateral motorcycle dynamics estimation. , 2017, , .		4
46	Robust estimation of vehicle lateral velocity and yaw rate using switched T-S fuzzy interval observers. , 2017, , .		8
47	Estimation of lateral motorcycle dynamics and rider action with Luenberger observer. , 2016, , .		12
48	Operating mode recognition. Application to a grinding mill process IFAC-PapersOnLine, 2016, 49, 7-12.	0.5	1
49	Unknown-input observer design for motorcycle lateral dynamics: TS approach. Control Engineering Practice, 2016, 54, 12-26.	3.2	19
50	Auxiliary dynamics for observer design of nonlinear TS systems with unmeasurable premise variables. IFAC-PapersOnLine, 2016, 49, 1-6.	0.5	8
51	A method to avoid the unmeasurable premise variables in observer design for discrete time TS systems. , 2016, , .		8
52	Actuator Fault diagnosis: Hâ^ž framework with relative degree notion. IFAC-PapersOnLine, 2016, 49, 321-326.	0.5	4
53	Lateral motorcycle dynamics and rider action estimation: An LPV unknown input observer approach. , 2016, , .		9
54	Observer-based controller and separation principle for TS systems with unmeasurable premise variables. , 2016 , , .		2

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55	Sensor fault tolerant control of nonlinear Takagi-Sugeno systems. Application to vehicle lateral dynamics. International Journal of Robust and Nonlinear Control, 2016, 26, 1376-1394.	2.1	43
56	On the estimation of longitudinal dynamics of powered two-wheeled vehicles. , 2015, , .		7
57	Observer design for a class of discrete-time quasi-LPV systems with unknown parameters: Algebraic approach. , 2015, , .		3
58	On Unknown Input Observers for LPV Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 5870-5880.	5. 2	95
59	Fault tolerant control for uncertain descriptor multi-models with application to wastewater treatment plant., 2015,,.		6
60	Takagi-Sugeno Observers: Experimental Application for Vehicle Lateral Dynamics Estimation. IEEE Transactions on Control Systems Technology, 2015, 23, 754-761.	3.2	15
61	New Nonlinear Takagi–Sugeno Vehicle Model for State and Road Curvature Estimation via a Nonlinear PMI Observer. Journal of Intelligent Systems, 2014, 23, 155-170.	1.2	1
62	Detection of critical situations in vehicle lateral dynamics by LPV unknown input observers with finite time property. , 2014 , , .		0
63	Fault detection, isolation and estimation for Takagi–Sugeno nonlinear systems. Journal of the Franklin Institute, 2014, 351, 3651-3676.	1.9	56
64	Analysis of the leaning limit dynamics of Powered Two Wheeled vehicles. , 2014, , .		0
65	An Unknown-Input HOSM Approach to Estimate Lean and Steering Motorcycle Dynamics. IEEE Transactions on Vehicular Technology, 2014, 63, 3116-3127.	3.9	20
66	Estimation of Lateral Dynamics and Road Curvature for Two-Wheeled Vehicles: A HOSM Observer approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2806-2811.	0.4	10
67	Motorcycle maximal safe speed in cornering situation. , 2013, , .		1
68	Vehicle nonlinear observer for state and tire-road friction estimation. , 2013, , .		1
69	Observer design for motorcycle lean and steering dynamics estimation: A Takagi-Sugeno approach. , 2013, , .		17
70	New nonlinear Takagi-Sugeno vehicle model for state and road curvature estimation via nonlinear PMI observer., 2013,,.		4
71	Observer based controller for single track vehicles. , 2013, , .		4
72	Unknown input observer for vehicle lateral dynamics based on a Takagi-Sugeno model with unmeasurable premise variables. , 2012 , , .		5

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73	Observer for Lipschitz nonlinear systems: Mean Value Theorem and sector nonlinearity transformation. , $2012, \ldots$		9
74	Invariant set based variable headway time vehicle longitudinal control assistance. , 2012, , .		3
75	Proportional two Integral (P2I) observer synthesis for single track vehicle. , 2012, , .		2
76	New fault tolerant control strategies for nonlinear Takagi-Sugeno systems. International Journal of Applied Mathematics and Computer Science, 2012, 22, 197-210.	1.5	47
77	Nonlinear observer based sensor fault tolerant control for nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1053-1058.	0.4	6
78	Advances in observer design for Takagi-Sugeno systems with unmeasurable premise variables. , 2012, , .		35
79	Model predictive control for an urban trimodal model. , 2012, , .		0
80	Fault tolerant tracking controller design for T-S fuzzy disturbed systems with uncertainties subject to actuator faults. , $2011,$,.		4
81	Observer design for two-wheeled vehicle: A Takagi-Sugeno approach with unmeasurable premise variables. , $2011,\ldots$		32
82	Fault tolerant control for Takagi-Sugeno systems with unmeasurable premise variables by trajectory tracking. , 2010 , , .		25
83	New fault tolerant control strategy for nonlinear systems with multiple model approach. , 2010, , .		19
84	State estimation of Takagi–Sugeno systems with unmeasurable premise variables. IET Control Theory and Applications, 2010, 4, 897-908.	1.2	140
85	Observer based actuator fault tolerant control for nonlinear Takagi-Sugeno systems : an LMI approach. , 2010, , .		24
86	State estimation of nonlinear systems using multiple model approach., 2009,,.		16
87	State and unknown input estimation for nonlinear systems described by Takagi-Sugeno models with unmeasurable premise variables. , 2009, , .		33
88	An approach for the state estimation of Takagi-Sugeno models and application to sensor fault diagnosis. , 2009, , .		18
89	Simultaneous state and unknown inputs estimation with PI and PMI observers for Takagi Sugeno model with unmeasurable premise variables. , 2009, , .		58
90	Fault diagnosis for Takagi-Sugeno nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 504-509.	0.4	17

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91 Robust observer design for uncertain Takagi-Sugeno model with unmeasurable decision variables: an L₂approach., 2008,,... 7