

Halim Alwi

List of Publications by Year in descending order

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citations

331670

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79
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79
docs citations

79
times ranked

1301
citing authors

#	ARTICLE	IF	CITATIONS
1	Flight Evaluation of an LPV Sliding Mode Observer for Sensor FTC. IEEE Transactions on Control Systems Technology, 2022, 30, 1319-1327.	5.2	5
2	Simultaneous Fault and Input Time Delay Estimation for an Actuator System: Theory and Flight Data Validation. , 2022, 6, 1172-1177.		4
3	Interpolated reference model based fault tolerant sliding mode control for an octorotor. IET Control Theory and Applications, 2022, 16, 649-662.	2.1	2
4	Sliding Mode FTC of an Octoplane UAV transition mode. , 2022, , .		2
5	Flight evaluation of simultaneous actuator/sensor fault reconstruction on a quadrotor minidrone. IET Control Theory and Applications, 2021, 15, 2095-2110.	2.1	3
6	Robust fault tolerant control allocation for a modern over-actuated commercial aircraft. IET Control Theory and Applications, 2021, 15, 307-322.	2.1	6
7	Fault Tolerant Control of a Quadplane UAV Using Sliding Modes. , 2021, , .		3
8	An Automated Approach for the Design of a Fault Tolerant Controller. , 2021, , .		2
9	Sliding mode observers for a class of linear parameter varying systems. International Journal of Robust and Nonlinear Control, 2020, 30, 3134-3148.	3.7	13
10	Flight evaluation of a sliding mode online control allocation scheme for fault tolerant control. Automatica, 2020, 114, 108829.	5.0	40
11	Scheduled Fault Tolerant Integral Sliding Mode Control for BWB Aircraft. , 2020, , .		6
12	Model Reference Sliding Mode Fault Tolerant Control of a BWB Aircraft. , 2020, , .		3
13	Integral sliding mode fault-tolerant control allocation for a class of affine nonlinear system. International Journal of Robust and Nonlinear Control, 2019, 29, 565-582.	3.7	30
14	Mitigating total rotor failure in quadrotor using LPV based sliding mode control scheme. , 2019, , .		3
15	On the synthesis of an integrated active LPV FTC scheme using sliding modes. Automatica, 2019, 110, 108536.	5.0	17
16	Sliding Mode Fault Tolerant Control Allocation with Saturation Avoidance for a Blended Wing Body Aircraft. , 2019, , .		3
17	Hardware-in-the-loop simulation for a sliding mode FDI scheme. , 2019, , .		4
18	Fault Tolerant Control of a Blended Wing Body Aircraft using Priority Weighted Control Allocation and Sliding Modes. , 2019, , .		8

#	ARTICLE	IF	CITATIONS
19	Sensor fault estimation using LPV sliding mode observers with erroneous scheduling parameters. Automatica, 2019, 101, 66-77.	5.0	40
20	Development and evaluation of an integral sliding mode fault-tolerant control scheme on the RECONFIGURE benchmark. International Journal of Robust and Nonlinear Control, 2019, 29, 5314-5340.	3.7	8
21	Evaluation of a Sliding Mode Fault Tolerant Controller on the MuPAL- α Research Aircraft. , 2018, , .		4
22	Implementation of Sliding Mode Fault Tolerant Control on the IRIS + Quadrotor. , 2018, , .		4
23	Flight Evaluations of Sliding Mode Fault Tolerant Controllers. , 2018, , .		2
24	Sensor redundancy based FDI using an LPV sliding mode observer. IET Control Theory and Applications, 2018, 12, 1956-1963.	2.1	5
25	Active Fault Tolerant Control of MuPAL-a Using Sliding Modes. , 2018, , .		2
26	Application of an LPV based Model Reference FTC Scheme on the RECONFIGURE benchmark model. , 2018, , .		2
27	Fault detection in uncertain LPV systems with imperfect scheduling parameter using sliding mode observers. European Journal of Control, 2017, 34, 1-15.	2.6	29
28	Flight evaluation of an LPV sliding mode controller with online control allocation. , 2017, , .		7
29	On the synthesis of variable structure observers for LPV systems. , 2017, , .		1
30	Hardware-in-the-loop evaluation of an LPV sliding mode fixed control allocation scheme on the MuPAL- α research aircraft. , 2017, , .		1
31	Development and evaluation of sliding mode schemes for the RECONFIGURE benchmark problem. , 2016, , .		2
32	Fault Tolerant Control Schemes Using Integral Sliding Modes. Studies in Systems, Decision and Control, 2016, , .	1.0	49
33	LPV sliding mode observers for sensor fault reconstruction with erroneous scheduling parameter measurements. , 2015, , .		2
34	Development and Application of an LPV Fault Tolerant Integral Sliding Mode Control Allocation Scheme for the RECONFIGURE Benchmark Model $\hat{\alpha} \dots \hat{\alpha}$... This work is supported by EU-FP7 Grant (FP7-AAT-2012-314544): RECONFIGURE. IFAC-PapersOnLine, 2015, 48, 994-999.	0.9	5
35	A Fault Tolerant Direct Control Allocation Scheme with Integral Sliding Modes. International Journal of Applied Mathematics and Computer Science, 2015, 25, 93-102.	1.5	24
36	Fault Reconstruction for a Quadrotor Using an LPV Sliding Mode Observer 1. IFAC-PapersOnLine, 2015, 48, 374-379.	0.9	33

#	ARTICLE	IF	CITATIONS
37	Development and evaluation of an LPV integral sliding mode fault tolerant flight control scheme on the SIMONA research simulator. , 2015, , .		1
38	Sliding-Mode Propulsion-Control Tests on a Motion Flight Simulator. Journal of Guidance, Control, and Dynamics, 2015, 38, 671-684.	2.8	4
39	Sliding mode fault-tolerant control of an octorotor using linear parameter varying-based schemes. IET Control Theory and Applications, 2015, 9, 618-636.	2.1	51
40	FTC scheme based on model reference LPV sliding mode control allocation. , 2014, , .		2
41	Fault tolerant longitudinal aircraft control using non-linear integral sliding mode. IET Control Theory and Applications, 2014, 8, 1803-1814.	2.1	36
42	Sliding mode observers for fault detection of uncertain LPV systems with imperfect scheduling parameter knowledge. , 2014, , .		5
43	An integral sliding mode fault tolerant control scheme for an octorotor using fixed control allocation. , 2014, , .		10
44	Real-time implementation of an Integral Sliding Mode Fault Tolerant Control scheme for LPV plants. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	8
45	Second order sliding mode observers for the ADDSAFE actuator benchmark problem. Control Engineering Practice, 2014, 31, 74-91.	5.5	10
46	Development and application of sliding mode LPV fault reconstruction schemes for the ADDSAFE Benchmark. Control Engineering Practice, 2014, 31, 148-170.	5.5	33
47	Robust fault reconstruction for linear parameter varying systems using sliding mode observers. International Journal of Robust and Nonlinear Control, 2014, 24, 1947-1968.	3.7	93
48	Reconstruction of simultaneous actuator and sensor faults for the RECONFIGURE benchmark using a sliding mode observer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3497-3502.	0.4	16
49	An adaptive sliding mode differentiator for actuator oscillatory failure case reconstruction. Automatica, 2013, 49, 642-651.	5.0	96
50	A fault tolerant control allocation scheme with output integral sliding modes. Automatica, 2013, 49, 1830-1837.	5.0	91
51	Fault tolerant control of an octorotor using LPV based sliding mode control allocation. , 2013, , .		40
52	Sliding mode based on-line drag estimation of a simulated aircraft over a wireless network. , 2012, , .		0
53	Validation of Sliding Mode Observer FDI Schemes on the ADDSAFE Functional Engineering Simulator*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1335-1340.	0.4	3
54	Second Order Sliding Mode Observers for the ADDSAFE Benchmark Problem*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1137-1142.	0.4	6

#	ARTICLE	IF	CITATIONS
55	Sliding mode control design of an electrostatic microactuator using LPV schemes. , 2012, , .		4
56	Applications of sliding observers for FDI in aerospace systems. , 2012, , .		0
57	Design and Analysis of an Integral Sliding Mode Fault-Tolerant Control Scheme. IEEE Transactions on Automatic Control, 2012, 57, 1783-1789.	5.7	161
58	Fault reconstruction using a LPV sliding mode observer for a class of LPV systems. Journal of the Franklin Institute, 2012, 349, 510-530.	3.4	83
59	Nonlinear integral sliding mode fault tolerant longitudinal aircraft control. , 2011, , .		5
60	Fault Detection and Fault-Tolerant Control Using Sliding Modes. Advances in Industrial Control, 2011, , .	0.5	250
61	Oscillatory failure case detection for aircraft using an adaptive sliding mode differentiator scheme. , 2011, , .		12
62	Robust actuator fault reconstruction for LPV systems using sliding mode observers. , 2010, , .		13
63	FDI for a Mars orbiting satellite based on a sliding mode observer scheme. , 2010, , .		13
64	Evaluation of a Sliding Mode Fault-Tolerant Controller for the El Al Incident. Journal of Guidance, Control, and Dynamics, 2010, 33, 677-694.	2.8	30
65	Fault tolerant sliding modes control allocation with control surface priority weighting. , 2010, , .		4
66	Sliding mode methods for fault detection and fault tolerant control. , 2010, , .		21
67	Sliding mode estimation schemes for incipient sensor faults. Automatica, 2009, 45, 1679-1685.	5.0	129
68	Propulsion control of a large civil aircraft using on-line control allocation. , 2009, , .		3
69	A simulator evaluation of a model-reference sliding mode fault tolerant controller. , 2009, , .		1
70	Fault tolerant control using sliding modes with on-line control allocation. Automatica, 2008, 44, 1859-1866.	5.0	430
71	Fault Detection and Fault-Tolerant Control of a Civil Aircraft Using a Sliding-Mode-Based Scheme. IEEE Transactions on Control Systems Technology, 2008, 16, 499-510.	5.2	160
72	Fault Tolerant Sliding Mode Control Design with Piloted Simulator Evaluation. Journal of Guidance, Control, and Dynamics, 2008, 31, 1186-1201.	2.8	78

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73	Sliding mode estimation schemes for unstable systems subject to incipient sensor faults. , 2008, , .		0
74	SIMONA flight simulator implementation of a fault tolerant sliding mode scheme with on-line control allocation. , 2008, , .		2
75	Model-reference sliding mode FTC with on-line control allocation. , 2007, , .		5
76	Application of Fault Tolerant Control Using Sliding Modes With On-line Control Allocation on a Large Civil Aircraft. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	6
77	Robust sensor fault estimation for tolerant control of a civil aircraft using sliding modes. , 2006, , .		19
78	Sliding Mode FTC With On-line Control Allocation. , 2006, , .		36
79	Fault Tolerant Control of a Civil Aircraft Using a Sliding Mode Based Scheme. , 0, , .		18