

Halim Alwi

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,362
citations

331670

21
h-index

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37
g-index

79
all docs

79
docs citations

79
times ranked

1301
citing authors

#	ARTICLE	IF	CITATIONS
1	Fault tolerant control using sliding modes with on-line control allocation. <i>Automatica</i> , 2008, 44, 1859-1866.	5.0	430
2	Fault Detection and Fault-Tolerant Control Using Sliding Modes. <i>Advances in Industrial Control</i> , 2011, , .	0.5	250
3	Design and Analysis of an Integral Sliding Mode Fault-Tolerant Control Scheme. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1783-1789.	5.7	161
4	Fault Detection and Fault-Tolerant Control of a Civil Aircraft Using a Sliding-Mode-Based Scheme. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 499-510.	5.2	160
5	Sliding mode estimation schemes for incipient sensor faults. <i>Automatica</i> , 2009, 45, 1679-1685.	5.0	129
6	An adaptive sliding mode differentiator for actuator oscillatory failure case reconstruction. <i>Automatica</i> , 2013, 49, 642-651.	5.0	96
7	Robust fault reconstruction for linear parameter varying systems using sliding mode observers. <i>International Journal of Robust and Nonlinear Control</i> , 2014, 24, 1947-1968.	3.7	93
8	A fault tolerant control allocation scheme with output integral sliding modes. <i>Automatica</i> , 2013, 49, 1830-1837.	5.0	91
9	Fault reconstruction using a LPV sliding mode observer for a class of LPV systems. <i>Journal of the Franklin Institute</i> , 2012, 349, 510-530.	3.4	83
10	Fault Tolerant Sliding Mode Control Design with Piloted Simulator Evaluation. <i>Journal of Guidance, Control, and Dynamics</i> , 2008, 31, 1186-1201.	2.8	78
11	Sliding mode fault-tolerant control of an octorotor using linear parameter varying-based schemes. <i>IET Control Theory and Applications</i> , 2015, 9, 618-636.	2.1	51
12	Fault Tolerant Control Schemes Using Integral Sliding Modes. <i>Studies in Systems, Decision and Control</i> , 2016, , .	1.0	49
13	Fault tolerant control of an octorotor using LPV based sliding mode control allocation. , 2013, , .		40
14	Sensor fault estimation using LPV sliding mode observers with erroneous scheduling parameters. <i>Automatica</i> , 2019, 101, 66-77.	5.0	40
15	Flight evaluation of a sliding mode online control allocation scheme for fault tolerant control. <i>Automatica</i> , 2020, 114, 108829.	5.0	40
16	Sliding Mode FTC With On-line Control Allocation. , 2006, , .		36
17	Fault tolerant longitudinal aircraft control using non-linear integral sliding mode. <i>IET Control Theory and Applications</i> , 2014, 8, 1803-1814.	2.1	36
18	Development and application of sliding mode LPV fault reconstruction schemes for the ADDSAFE Benchmark. <i>Control Engineering Practice</i> , 2014, 31, 148-170.	5.5	33

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19	Fault Reconstruction for a Quadrotor Using an LPV Sliding Mode Observer 1. IFAC-PapersOnLine, 2015, 48, 374-379.	0.9	33
20	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
21	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
22	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
23	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
24	Sliding mode methods for fault detection and fault tolerant control. , 2010, , .		21
25	Robust sensor fault estimation for tolerant control of a civil aircraft using sliding modes. , 2006, , .		19
26	Fault Tolerant Control of a Civil Aircraft Using a Sliding Mode Based Scheme. , 0, , .		18
27	On the synthesis of an integrated active LPV FTC scheme using sliding modes. Automatica, 2019, 110, 108536.	5.0	17
28	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
29	Robust actuator fault reconstruction for LPV systems using sliding mode observers. , 2010, , .		13
30	FDI for a Mars orbiting satellite based on a sliding mode observer scheme. , 2010, , .		13
31	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
32	Oscillatory failure case detection for aircraft using an adaptive sliding mode differentiator scheme. , 2011, , .		12
33	An integral sliding mode fault tolerant control scheme for an octorotor using fixed control allocation. , 2014, , .		10
34	Second order sliding mode observers for the ADDSAFE actuator benchmark problem. Control Engineering Practice, 2014, 31, 74-91.	5.5	10
35	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
36	Fault Tolerant Control of a Blended Wing Body Aircraft using Priority Weighted Control Allocation and Sliding Modes. , 2019, , .		8

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37	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
38	Flight evaluation of an LPV sliding mode controller with online control allocation. , 2017, , .		7
39	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
40	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
41	Scheduled Fault Tolerant Integral Sliding Mode Control for BWB Aircraft. , 2020, , .		6
42	Robust fault tolerant control allocation for a modern over-actuated commercial aircraft. IET Control Theory and Applications, 2021, 15, 307-322.	2.1	6
43	Model-reference sliding mode FTC with on-line control allocation. , 2007, , .		5
44	Nonlinear integral sliding mode fault tolerant longitudinal aircraft control. , 2011, , .		5
45	Sliding mode observers for fault detection of uncertain LPV systems with imperfect scheduling parameter knowledge. , 2014, , .		5
46	Development and Application of an LPV Fault Tolerant Integral Sliding Mode Control Allocation Scheme for the RECONFIGURE Benchmark Model â... â...This work is supported by EU-FP7 Grant (FP7-AAT-2012-314544): RECONFIGURE. IFAC-PapersOnLine, 2015, 48, 994-999.	0.9	5
47	Sensor redundancy based FDI using an LPV sliding mode observer. IET Control Theory and Applications, 2018, 12, 1956-1963.	2.1	5
48	Flight Evaluation of an LPV Sliding Mode Observer for Sensor FTC. IEEE Transactions on Control Systems Technology, 2022, 30, 1319-1327.	5.2	5
49	Fault tolerant sliding modes control allocation with control surface priority weighting. , 2010, , .		4
50	Sliding mode control design of an electrostatic microactuator using LPV schemes. , 2012, , .		4
51	Sliding-Mode Propulsion-Control Tests on a Motion Flight Simulator. Journal of Guidance, Control, and Dynamics, 2015, 38, 671-684.	2.8	4
52	Evaluation of a Sliding Mode Fault Tolerant Controller on the MuPAL- α Research Aircraft. , 2018, , .		4
53	Implementation of Sliding Mode Fault Tolerant Control on the IRIS + Quadrotor. , 2018, , .		4
54	Hardware-in-the-loop simulation for a sliding mode FDI scheme. , 2019, , .		4

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55	Simultaneous Fault and Input Time Delay Estimation for an Actuator System: Theory and Flight Data Validation. , 2022, 6, 1172-1177.		4
56	Propulsion control of a large civil aircraft using on-line control allocation. , 2009, , .		3
57	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
58	Mitigating total rotor failure in quadrotor using LPV based sliding mode control scheme. , 2019, , .		3
59	Sliding Mode Fault Tolerant Control Allocation with Saturation Avoidance for a Blended Wing Body Aircraft. , 2019, , .		3
60	Flight evaluation of simultaneous actuator/sensor fault reconstruction on a quadrotor minidrone. IET Control Theory and Applications, 2021, 15, 2095-2110.	2.1	3
61	Model Reference Sliding Mode Fault Tolerant Control of a BWB Aircraft. , 2020, , .		3
62	Fault Tolerant Control of a Quadplane UAV Using Sliding Modes. , 2021, , .		3
63	SIMONA flight simulator implementation of a fault tolerant sliding mode scheme with on-line control allocation. , 2008, , .		2
64	FTC scheme based on model reference LPV sliding mode control allocation. , 2014, , .		2
65	LPV sliding mode observers for sensor fault reconstruction with erroneous scheduling parameter measurements. , 2015, , .		2
66	Development and evaluation of sliding mode schemes for the RECONFIGURE benchmark problem. , 2016, , .		2
67	Flight Evaluations of Sliding Mode Fault Tolerant Controllers. , 2018, , .		2
68	Active Fault Tolerant Control of MuPAL-a Using Sliding Modes. , 2018, , .		2
69	Application of an LPV based Model Reference FTC Scheme on the RECONFIGURE benchmark model. , 2018, , .		2
70	An Automated Approach for the Design of a Fault Tolerant Controller. , 2021, , .		2
71	Interpolated reference model based fault tolerant sliding mode control for an octorotor. IET Control Theory and Applications, 2022, 16, 649-662.	2.1	2
72	Sliding Mode FTC of an Octoplane UAV transition mode. , 2022, , .		2

#	ARTICLE	IF	CITATIONS
73	A simulator evaluation of a model-reference sliding mode fault tolerant controller. , 2009, , .		1
74	Development and evaluation of an LPV integral sliding mode fault tolerant flight control scheme on the SIMONA research simulator. , 2015, , .		1
75	On the synthesis of variable structure observers for LPV systems. , 2017, , .		1
76	Hardware-in-the-loop evaluation of an LPV sliding mode fixed control allocation scheme on the MuPAL-1 research aircraft. , 2017, , .		1
77	Sliding mode estimation schemes for unstable systems subject to incipient sensor faults. , 2008, , .		0
78	Sliding mode based on-line drag estimation of a simulated aircraft over a wireless network. , 2012, , .		0
79	Applications of sliding observers for FDI in aerospace systems. , 2012, , .		0