Chee P Tan

List of Publications by Year
in descending order

140 papers	3,573 citations
201385 27 h-index	155451 55 g-index
145 all docs	145 docs citations
145 times ranked	2046 citing authors

#	Article	IF	Citations
1	A Zero-Shot Soft Sensor Modeling Approach Using Adversarial Learning for Robustness Against Sensor Fault. IEEE Transactions on Industrial Informatics, 2023, 19, 5891-5901.	7.2	3
2	Robust Multimodal Indirect Sensing for Soft Robots Via Neural Network-Aided Filter-Based Estimation. Soft Robotics, 2022, 9, 591-612.	4.6	20
3	Secure Communication Through a Chaotic System and a Sliding-Mode Observer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1869-1881.	5.9	20
4	Protocol conception for safe selection of mechanical ventilation settings for respiratory failure Patients. Computer Methods and Programs in Biomedicine, 2022, 214, 106577.	2.6	7
5	An improved look-up table-based direct torque control for permanent magnet synchronous generator using Vienna rectifier. International Journal of Electrical Power and Energy Systems, 2022, 138, 107875.	3.3	2
6	Coverage control of mobile agents using multi-step broadcast control. Robotica, 2022, 40, 3290-3305.	1.3	1
7	Fault-Tolerant Attitude Control for Rigid Spacecraft Without Angular Velocity Measurements. IEEE Transactions on Cybernetics, 2021, 51, 1216-1229.	6.2	58
8	State and delay reconstruction for nonlinear systems with input delays. Applied Mathematics and Computation, 2021, 390, 125609.	1.4	10
9	Fuzzy-tuned model predictive control for dynamic eco-driving on hilly roads. Applied Soft Computing Journal, 2021, 99, 106875.	4.1	12
10	Sliding mode observer for estimating states and faults of linear time-delay systems with outputs subject to delays. Automatica, 2021, 124, 109274.	3.0	22
11	Generative Adversarial Network in Reconstructing Asynchronous Breathing Cycle. IFMBE Proceedings, 2021, , 23-34.	0.2	0
12	Design and Prototyping of a â€˜Sweepâ€™ - Coating Method for Generating Thin Films. Lecture Notes in Mechanical Engineering, 2021, , 316-326.	0.3	0
13	A novel unknown input interval observer for systems not satisfying relative degree condition. International Journal of Robust and Nonlinear Control, 2021, 31, 2762-2782.	2.1	13
14	A Nonlinear Observer for Robust Fault Reconstruction in One-Sided Lipschitz and Quadratically Inner-Bounded Nonlinear Descriptor Systems. IEEE Access, 2021, 9, 22455-22469.	2.6	12
15	Active fault tolerant control based on adaptive interval observer for uncertain systems with sensor faults. International Journal of Robust and Nonlinear Control, 2021, 31, 2857-2881.	2.1	19
16	Closed-Structure Compliant Gripper With Morphologically Optimized Multi-Material Fingertips for Aerial Grasping. IEEE Robotics and Automation Letters, 2021, 6, 887-894.	3.3	9
17	Predictive Uncertainty Estimation Using Deep Learning for Soft Robot Multimodal Sensing. IEEE Robotics and Automation Letters, 2021, 6, 951-957.	3.3	11
18	An Incentive Based Dynamic Ride-Sharing System for Smart Cities. Smart Cities, 2021, 4, 532-547.	5.5	5

#	Article	IF	Citations
19	Wearable light spectral sensor optimized for measuring daily α-opic light exposure. Optics Express, 2021, 29, 27612.	1.7	11
20	Stochastic Modelling of Respiratory System Elastance for Mechanically Ventilated Respiratory Failure Patients. Annals of Biomedical Engineering, 2021, 49, 3280-3295.	1.3	15
21	Control of Vehicular Traffic at an Intersection Using a Cyber-Physical Multiagent Framework. IEEE Transactions on Industrial Informatics, 2021, 17, 6230-6240.	7.2	9
22	Network Data Acquisition and Monitoring System for Intensive Care Mechanical Ventilation Treatment. IEEE Access, 2021, 9, 91859-91873.	2.6	18
23	Bi-Level Coordinated Merging of Connected and Automated Vehicles at Roundabouts. Sensors, 2021, 21, 6533.	2.1	10
24	Impact time and angle constrained integrated guidance and control with application to salvo attack. Asian Journal of Control, 2020, 22, 1211-1220.	1.9	4
25	A Lookup Table Model Predictive Direct Torque Control of Permanent-Magnet Synchronous Generator Based on Vienna Rectifier. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1208-1222.	3.7	19
26	Patient asynchrony modelling during controlled mechanical ventilation therapy. Computer Methods and Programs in Biomedicine, 2020, 183, 105103.	2.6	12
27	Dynamic Output Feedback Fault Tolerant Control for Unmanned Underwater Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 3693-3702.	3.9	23
28	Robust fault reconstruction for a class of nonlinear systems. Automatica, 2020, 113, 108718.	3.0	26
29	Enhancing the adaptability: Lean and green strategy towards the Industry Revolution 4.0. Journal of Cleaner Production, 2020, 273, 122870.	4.6	60
30	The Spectral Optimization of a Commercializable Multi-Channel LED Panel With Circadian Impact. IEEE Access, 2020, 8, 136498-136511.	2.6	13
31	A sliding mode observer for robust fault reconstruction in a class of nonlinear non-infinitely observable descriptor systems. Nonlinear Dynamics, 2020, 101, 1023-1036.	2.7	43
32	Evaluation of air quality in Sunway City, Selangor, Malaysia from a mobile monitoring campaign using air pollution micro-sensors. Environmental Pollution, 2020, 265, 115058.	3.7	14
33	Integrated fault estimation and fault tolerant control for systems with generalized sector input nonlinearity. Automatica, 2020, 119, 109098.	3.0	21
34	Future trends in I&M: Indirect sensing in soft robots using observers/filters. IEEE Instrumentation and Measurement Magazine, 2020, 23, 42-43.	1.2	4
35	Virtual Mechanical Ventilation Protocol â€" A Model-based Method To determine MV Settings. IFAC-PapersOnLine, 2020, 53, 16119-16124.	0.5	7
36	Optimal Schedules of Light Exposure for Multiple Individuals for Quick Circadian Alignment. IFAC-PapersOnLine, 2020, 53, 16445-16450.	0.5	1

#	Article	IF	Citations
37	Curvature and Force Estimation for a Soft Finger using an EKF with Unknown Input Optimization. IFAC-PapersOnLine, 2020, 53, 8506-8512.	0.5	3
38	A novel adaptive sliding-mode based interval observer for a class of uncertain nonlinear systems. , 2020, , .		0
39	Event-Driven Stochastic Eco-Driving Strategy at Signalized Intersections From Self-Driving Data. IEEE Transactions on Vehicular Technology, 2019, 68, 8557-8569.	3.9	29
40	Output feedback Cross-Coupled Nonlinear PID based MIMO control scheme for Pressurized Heavy Water Reactor. Journal of the Franklin Institute, 2019, 356, 8012-8048.	1.9	18
41	Faultâ€tolerant spacecraft attitude control under actuator saturation and without angular velocity. International Journal of Robust and Nonlinear Control, 2019, 29, 6483-6506.	2.1	22
42	Saturated fault tolerant control based on partially decoupled unknownâ€input observer: a new integrated design strategy. IET Control Theory and Applications, 2019, 13, 2104-2113.	1.2	14
43	Adaptive analytical approach to lean and green operations. Journal of Cleaner Production, 2019, 235, 190-209.	4.6	29
44	Sensor Fault Resilient Operation of Permanent Magnet Synchronous Generator Based Wind Energy Conversion System. IEEE Transactions on Industry Applications, 2019, 55, 4298-4308.	3.3	10
45	Lean and Green Manufacturingâ€"a Review on its Applications and Impacts. Process Integration and Optimization for Sustainability, 2019, 3, 5-23.	1.4	53
46	State and fault estimation for a class of non-infinitely observable descriptor systems using two sliding mode observers in cascade. Journal of the Franklin Institute, 2019, 356, 3010-3029.	1.9	41
47	Non-linear System Identification and State Estimation in a Pneumatic Based Soft Continuum Robot. , 2019, , .		11
48	Area Coverage by a Group of UAVs using the Broadcast Control Framework. IFAC-PapersOnLine, 2019, 52, 370-375.	0.5	3
49	H-infinity based Extended Kalman Filter for State Estimation in Highly Non-linear Soft Robotic System. , 2019, , .		14
50	116 Knowing what Older Adults Want: A Soft Service Robot in Object Retrieval Tasks. Age and Ageing, 2019, 48, iv28-iv33.	0.7	0
51	Robust fault reconstruction for a class of non-infinitely observable descriptor systems using two sliding mode observers in cascade. Applied Mathematics and Computation, 2019, 350, 78-92.	1.4	36
52	Observer-Based PIGC for Missiles With Impact Angle Constraint. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2226-2240.	2.6	13
53	Design and Analysis of a Gripper with Interchangeable Soft Fingers for Ungrounded Mobile Robots. , 2019, , .		5
54	Assessing mechanical ventilation asynchrony through iterative airway pressure reconstruction. Computer Methods and Programs in Biomedicine, 2018, 157, 217-224.	2.6	35

#	Article	IF	Citations
55	Autopilot and guidance law design considering impact angle and time. IET Control Theory and Applications, 2018, 12, 221-232.	1.2	5
56	Coverage Control of a Mobile Multi-Agent Serving System in Dynamical Environment. , 2018, , .		3
57	Estimation of bounded faults using sliding mode observers. , 2018, , .		0
58	Identifiability of Patient Effort Respiratory Mechanics Model. , 2018, , .		2
59	Clinical Application of Respiratory Elastance (CARE Trial) for Mechanically Ventilated Respiratory Failure Patients: A Model-based Study. IFAC-PapersOnLine, 2018, 51, 209-214.	0.5	25
60	Development of Electrical Impedance Tomography for Breast Phantom Monitoring. , 2018, , .		1
61	Integration of Time-Varying threshold-based Fault Detection and Tolerant Control. IFAC-PapersOnLine, 2018, 51, 806-811.	0.5	0
62	Real-Time Closed-Loop Color Control of a Multi-Channel Luminaire Using Sensors Onboard a Mobile Device. IEEE Access, 2018, 6, 54751-54759.	2.6	10
63	3-D impact angle constrained distributed cooperative guidance for maneuvering targets without angular-rate measurements. Control Engineering Practice, 2018, 78, 142-159.	3.2	35
64	Distributed cooperative controller design considering guidance loop and impact angle. Journal of the Franklin Institute, 2018, 355, 6927-6946.	1.9	16
65	Robust fault reconstruction for a class of infinitely unobservable descriptor systems. International Journal of Systems Science, 2017, 48, 1646-1655.	3.7	38
66	A Sliding Mode Observer for Infinitely Unobservable Descriptor Systems. IEEE Transactions on Automatic Control, 2017, 62, 3580-3587.	3.6	33
67	A novel sliding mode observer for state and fault estimation in systems not satisfying matching and minimum phase conditions. Automatica, 2017, 79, 290-295.	3.0	79
68	Smart lighting: The way forward? Reviewing the past to shape the future. Energy and Buildings, 2017, 149, 180-191.	3.1	109
69	State and unknown input estimation for a class of infinitely unobservable descriptor systems using two observers in cascade. Journal of the Franklin Institute, 2017, 354, 8374-8397.	1.9	17
70	A Robust Fault Estimation Scheme for a Class of Nonlinear Systems. Asian Journal of Control, 2017, 19, 799-804.	1.9	9
71	Real-time face detection and motorized tracking using ScicosLab and SMCube on SoC's. , 2016, , .		1
72	A common functional observer scheme for three systems with unknown inputs. Journal of the Franklin Institute, 2016, 353, 2237-2257.	1.9	14

#	Article	IF	Citations
73	A Spectrally Tunable Smart LED Lighting System With Closed-Loop Control. IEEE Sensors Journal, 2016, 16, 4452-4459.	2.4	40
74	Power optimization model of adjustable guide-vane for an exhaust wind energy recovery system. , 2015, , .		0
75	A novel fault reconstruction scheme for a class of nonlinear systems. , 2015, , .		0
76	State and Fault Estimation For Infinitely Unobservable Descriptor Systems Using Sliding Mode Observers. Asian Journal of Control, 2015, 17, 1458-1461.	1.9	18
77	New results in common functional state estimation for two linear systems with unknown inputs. International Journal of Control, Automation and Systems, 2015, 13, 1538-1543.	1.6	4
78	Fault detection in a rotational system with an eccentric load using sliding mode observer. , 2015, , .		1
79	Fast and robust zebrafish segmentation and detection algorithm under different spectrum conditions. , 2014, , .		0
80	Detecting spongiosis in stained histopathological specimen using multispectral imaging and machine learning. , 2014, , .		3
81	New results in robust functional state estimation using two sliding mode observers in cascade. International Journal of Robust and Nonlinear Control, 2014, 24, 2079-2097.	2.1	14
82	Unsymmetrical fault diagnosis in transmission/distribution networks. International Journal of Electrical Power and Energy Systems, 2013, 45, 252-263.	3.3	23
83	Sliding mode-like learning control for SISO complex systems with T-S fuzzy models. International Journal of Modelling, Identification and Control, 2012, 16, 317.	0.2	15
84	Enhanced fault reconstruction using cascaded sliding mode observers. , 2012, , .		1
85	Disturbance decoupled fault reconstruction using cascaded sliding mode observers. Automatica, 2012, 48, 794-799.	3.0	27
86	Adaptive Sliding Mode Fault Tolerant Control. Advances in Industrial Control, 2011, , 187-224.	0.4	2
87	Sliding Modes for Fault Detection and Fault Tolerant Control. Lecture Notes in Control and Information Sciences, 2011, , 293-323.	0.6	1
88	Fault Detection and Fault-Tolerant Control Using Sliding Modes. Advances in Industrial Control, 2011, , .	0.4	250
89	Fault detection in transmission networks of power systems. International Journal of Electrical Power and Energy Systems, 2011, 33, 887-900.	3.3	48
90	Fault Tolerant Control and Fault Detection and Isolation. Advances in Industrial Control, 2011, , 7-27.	0.4	18

#	Article	IF	Citations
91	Sliding Mode Observers for Fault Detection. Advances in Industrial Control, 2011, , 53-98.	0.4	21
92	Reconstruction of Sensor Faults. Advances in Industrial Control, 2011, , 129-165.	0.4	0
93	Robust Fault Reconstruction using Observers in Cascade. Advances in Industrial Control, 2011, , 99-127.	0.4	0
94	SIMONA Implementation Results. Advances in Industrial Control, 2011, , 271-290.	0.4	1
95	First-Order Sliding Mode Concepts. Advances in Industrial Control, 2011, , 29-51.	0.4	0
96	Case Study: Implementation of Sensor Fault Reconstruction Schemes. Advances in Industrial Control, 2011, , 167-185.	0.4	0
97	Fault Tolerant Control with Online Control Allocation. Advances in Industrial Control, 2011, , 225-246.	0.4	0
98	Disturbance decoupled fault reconstruction using sliding mode observers. Asian Journal of Control, 2010, 12, 656-660.	1.9	9
99	New results in disturbance decoupled fault reconstruction in linear uncertain systems using two sliding mode observers in cascade. International Journal of Control, Automation and Systems, 2010, 8, 506-518.	1.6	7
100	Terminal sliding mode observers for a class of nonlinear systems. Automatica, 2010, 46, 1401-1404.	3.0	139
101	Robust Fault Reconstruction in Uncertain Linear Systems Using Multiple Sliding Mode Observers in Cascade. IEEE Transactions on Automatic Control, 2010, 55, 855-867.	3.6	74
102	Sliding mode methods for fault detection and fault tolerant control. , 2010, , .		21
103	Automatic aircraft landing control using Nonlinear Energy Method. , 2010, , .		3
104	Sliding mode estimation schemes for incipient sensor faults. Automatica, 2009, 45, 1679-1685.	3.0	129
105	Robust fault reconstruction using multiple sliding mode observers in cascade: Development and design. , 2009, , .		20
106	New results in disturbance decoupled fault reconstruction in linear uncertain systems using two sliding mode observers in cascade. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 780-785.	0.4	0
107	Extended results on robust state estimation and fault detection. Automatica, 2008, 44, 2027-2033.	3.0	49
108	Sliding mode estimation schemes for unstable systems subject to incipient sensor faults. , 2008, , .		0

#	Article	IF	Citations
109	Disturbance Decoupled Fault Reconstruction using Sliding Mode Observers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7215-7220.	0.4	2
110	The development of a fault-tolerant control approach and its implementation on a flexible arm robot. Advanced Robotics, 2007, 21, 887-904.	1.1	5
111	Sliding-Mode Observers. , 2007, , 221-242.		16
112	New result in robust actuator fault reconstruction with application to an aircraft. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	3
113	New results in robust actuator fault reconstruction for linear uncertain systems using sliding mode observers. International Journal of Robust and Nonlinear Control, 2007, 17, 1294-1319.	2.1	39
114	Robust sensor fault reconstruction applied in real-time to an inverted pendulum. Mechatronics, 2007, 17, 368-380.	2.0	10
115	A ROBUST SENSOR FAULT TOLERANT CONTROL SCHEME IMPLEMENTED ON A CRANE. Asian Journal of Control, 2007, 9, 340-344.	1.9	14
116	A Comparison of Sliding Mode and Unknown Input Observers for Fault Reconstruction. European Journal of Control, 2006, 12, 245-260.	1.6	77
117	Fault Tolerance Of A Flexible Manipulator. , 2006, , .		2
118	Tolerance towards sensor failures: an application to a double inverted pendulum. , 2006, , .		0
119	Robust Sensor Fault Reconstruction Using A Reduced Order Linear Observer. , 2006, , .		3
120	Roll and Yaw Stabilisation using Nonlinear Energy Method. , 2006, , .		2
121	Robust sensor fault reconstruction using right eigenstructure assignment. , 2006, , .		2
122	Sensor fault tolerant control using sliding mode observers. Control Engineering Practice, 2006, 14, 897-908.	3.2	150
123	New Results In Robust Observation And Fault Reconstruction. , 2006, , .		0
124	Tolerance Towards Sensor Faults: An Application to a Flexible Arm Manipulator. International Journal of Advanced Robotic Systems, 2006, 3, 46.	1.3	2
125	Fault tolerant control using sliding mode observers. , 2004, , .		24
126	Sliding mode observers for robust detection and reconstruction of actuator and sensor faults. International Journal of Robust and Nonlinear Control, 2003, 13, 443-463.	2.1	402

#	Article	IF	Citations
127	Sliding mode observers for robust fault reconstruction in nonlinear systems. , 2003, , 373-383.		6
128	Implementation of a Sliding Mode Observer for Robust Reconstruction of Faults on a Crane System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1059-1064.	0.4	2
129	On the Development and Application of Sliding Mode Observers. , 2002, , 253-282.		78
130	SLIDING MODE OBSERVERS FOR ROBUST FAULT DETECTION & RECONSTRUCTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 347-352.	0.4	4
131	A robust sensor fault reconstruction scheme using sliding mode observers applied to a nonlinear aero-engine model. , 2002, , .		2
132	Sliding mode observers for detection and reconstruction of sensor faults. Automatica, 2002, 38, 1815-1821.	3.0	315
133	An LMI approach for designing sliding mode observers. International Journal of Control, 2001, 74, 1559-1568.	1.2	151
134	An LMI approach for designing sliding mode observers. , 0, , .		7
135	Reconstruction of sensor faults using a secondary sliding mode observer. , 0, , .		3
136	Sliding mode observers for reconstruction of simultaneous actuator and sensor faults. , 0, , .		22
137	Robust sensor fault reconstruction for an inverted pendulum using right eigenstructure assignment. , 0, , .		1
138	A robust sensor fault tolerant control scheme implemented on a flexible joint. , 0, , .		6
139	Feedback Controller and Observer Design to Maximize Stability Radius. , 0, , .		4
140	Robust Fault Detection Using Sliding Mode Observers. , 0, , 293-312.		9