

# Chee P Tan

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125  
papers

2,399  
citations

24  
h-index

46  
g-index

145  
ext. papers

3,077  
ext. citations

3.4  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
125	Sliding mode observers for robust detection and reconstruction of actuator and sensor faults. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 443-463	3.6	313
124	Sliding mode observers for detection and reconstruction of sensor faults. <i>Automatica</i> , <b>2002</b> , 38, 1815-1827	3.7	249
123	Fault Detection and Fault-Tolerant Control Using Sliding Modes. <i>Advances in Industrial Control</i> , <b>2011</b>	0.3	165
122	Sensor fault tolerant control using sliding mode observers. <i>Control Engineering Practice</i> , <b>2006</b> , 14, 897-908	3.9	121
121	Terminal sliding mode observers for a class of nonlinear systems. <i>Automatica</i> , <b>2010</b> , 46, 1401-1404	5.7	111
120	An LMI approach for designing sliding mode observers. <i>International Journal of Control</i> , <b>2001</b> , 74, 1559-1568	5.8	107
119	Sliding mode estimation schemes for incipient sensor faults. <i>Automatica</i> , <b>2009</b> , 45, 1679-1685	5.7	105
118	Smart lighting: The way forward? Reviewing the past to shape the future. <i>Energy and Buildings</i> , <b>2017</b> , 149, 180-191	7	68
117	On the Development and Application of Sliding Mode Observers <b>2002</b> , 253-282		65
116	A Comparison of Sliding Mode and Unknown Input Observers for Fault Reconstruction. <i>European Journal of Control</i> , <b>2006</b> , 12, 245-260	2.5	60
115	Robust Fault Reconstruction in Uncertain Linear Systems Using Multiple Sliding Mode Observers in Cascade. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 855-867	5.9	53
114	A novel sliding mode observer for state and fault estimation in systems not satisfying matching and minimum phase conditions. <i>Automatica</i> , <b>2017</b> , 79, 290-295	5.7	52
113	Fault detection in transmission networks of power systems. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2011</b> , 33, 887-900	5.1	43
112	Extended results on robust state estimation and fault detection. <i>Automatica</i> , <b>2008</b> , 44, 2027-2033	5.7	37
111	State and fault estimation for a class of non-infinitely observable descriptor systems using two sliding mode observers in cascade. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 3010-3029	4	32
110	Enhancing the adaptability: Lean and green strategy towards the Industry Revolution 4.0. <i>Journal of Cleaner Production</i> , <b>2020</b> , 273, 122870	10.3	32
109	New results in robust actuator fault reconstruction for linear uncertain systems using sliding mode observers. <i>International Journal of Robust and Nonlinear Control</i> , <b>2007</b> , 17, 1294-1319	3.6	29

108	Lean and Green Manufacturing – Review on its Applications and Impacts. <i>Process Integration and Optimization for Sustainability</i> , <b>2019</b> , 3, 5-23	2	27
107	Robust fault reconstruction for a class of non-infinitely observable descriptor systems using two sliding mode observers in cascade. <i>Applied Mathematics and Computation</i> , <b>2019</b> , 350, 78-92	2.7	27
106	Fault-Tolerant Attitude Control for Rigid Spacecraft Without Angular Velocity Measurements. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 1216-1229	10.2	27
105	Robust fault reconstruction for a class of infinitely unobservable descriptor systems. <i>International Journal of Systems Science</i> , <b>2017</b> , 48, 1646-1655	2.3	26
104	A Sliding Mode Observer for Infinitely Unobservable Descriptor Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 3580-3587	5.9	26
103	A Spectrally Tunable Smart LED Lighting System With Closed-Loop Control. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 4452-4459	4	26
102	Assessing mechanical ventilation asynchrony through iterative airway pressure reconstruction. <i>Computer Methods and Programs in Biomedicine</i> , <b>2018</b> , 157, 217-224	6.9	24
101	A sliding mode observer for robust fault reconstruction in a class of nonlinear non-infinitely observable descriptor systems. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 1023-1036	5	24
100	3-D impact angle constrained distributed cooperative guidance for maneuvering targets without angular-rate measurements. <i>Control Engineering Practice</i> , <b>2018</b> , 78, 142-159	3.9	22
99	Disturbance decoupled fault reconstruction using cascaded sliding mode observers. <i>Automatica</i> , <b>2012</b> , 48, 794-799	5.7	21
98	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 8557-8569	6.8	19
97	Unsymmetrical fault diagnosis in transmission/distribution networks. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2013</b> , 45, 252-263	5.1	18
96	State and Fault Estimation For Infinitely Unobservable Descriptor Systems Using Sliding Mode Observers. <i>Asian Journal of Control</i> , <b>2015</b> , 17, 1458-1461	1.7	16
95	Robust fault reconstruction for a class of nonlinear systems. <i>Automatica</i> , <b>2020</b> , 113, 108718	5.7	16
94	Fault Tolerant Control and Fault Detection and Isolation. <i>Advances in Industrial Control</i> , <b>2011</b> , 7-27	0.3	16
93	Adaptive analytical approach to lean and green operations. <i>Journal of Cleaner Production</i> , <b>2019</b> , 235, 190-209	10.3	15
92	Sliding mode methods for fault detection and fault tolerant control <b>2010</b> ,		15
91	State and unknown input estimation for a class of infinitely unobservable descriptor systems using two observers in cascade. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 8374-8397	4	14

90	Fault-tolerant spacecraft attitude control under actuator saturation and without angular velocity. <i>International Journal of Robust and Nonlinear Control</i> , <b>2019</b> , 29, 6483-6506	3.6	14
89	New results in robust functional state estimation using two sliding mode observers in cascade. <i>International Journal of Robust and Nonlinear Control</i> , <b>2014</b> , 24, 2079-2097	3.6	14
88	Robust fault reconstruction using multiple sliding mode observers in cascade: Development and design <b>2009</b> ,		12
87	A ROBUST SENSOR FAULT TOLERANT CONTROL SCHEME IMPLEMENTED ON A CRANE. <i>Asian Journal of Control</i> , <b>2008</b> , 9, 340-344	1.7	12
86	Sliding-Mode Observers <b>2007</b> , 221-242		12
85	Fault tolerant control using sliding mode observers <b>2004</b> ,		12
84	Clinical Application of Respiratory Elastance (CARE Trial) for Mechanically Ventilated Respiratory Failure Patients: A Model-based Study. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 209-214	0.7	12
83	Sliding mode-like learning control for SISO complex systems with T-S fuzzy models. <i>International Journal of Modelling, Identification and Control</i> , <b>2012</b> , 16, 317	0.6	11
82	Output feedback Cross-Coupled Nonlinear PID based MIMO control scheme for Pressurized Heavy Water Reactor. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 8012-8048	4	10
81	Robust sensor fault reconstruction applied in real-time to an inverted pendulum. <i>Mechatronics</i> , <b>2007</b> , 17, 368-380	3	10
80	Dynamic Output Feedback Fault Tolerant Control for Unmanned Underwater Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 3693-3702	6.8	10
79	The Spectral Optimization of a Commercializable Multi-Channel LED Panel With Circadian Impact. <i>IEEE Access</i> , <b>2020</b> , 8, 136498-136511	3.5	10
78	A common functional observer scheme for three systems with unknown inputs. <i>Journal of the Franklin Institute</i> , <b>2016</b> , 353, 2237-2257	4	10
77	A Lookup Table Model Predictive Direct Torque Control of Permanent-Magnet Synchronous Generator Based on Vienna Rectifier. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 1208-1222	5.6	10
76	Distributed cooperative controller design considering guidance loop and impact angle. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 6927-6946	4	9
75	A Robust Fault Estimation Scheme for a Class of Nonlinear Systems. <i>Asian Journal of Control</i> , <b>2017</b> , 19, 799-804	1.7	9
74	Active fault tolerant control based on adaptive interval observer for uncertain systems with sensor faults. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 2857-2881	3.6	9
73	Disturbance decoupled fault reconstruction using sliding mode observers. <i>Asian Journal of Control</i> , <b>2010</b> , 12, 656-660	1.7	8

72	Non-linear System Identification and State Estimation in a Pneumatic Based Soft Continuum Robot <b>2019</b> ,		8
71	Real-Time Closed-Loop Color Control of a Multi-Channel Luminaire Using Sensors Onboard a Mobile Device. <i>IEEE Access</i> , <b>2018</b> , 6, 54751-54759	3.5	8
70	Sensor Fault Resilient Operation of Permanent Magnet Synchronous Generator Based Wind Energy Conversion System. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 4298-4308	4.3	7
69	Integrated fault estimation and fault tolerant control for systems with generalized sector input nonlinearity. <i>Automatica</i> , <b>2020</b> , 119, 109098	5.7	7
68	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2019</b> , 55, 2226-2240	3.7	7
67	. <i>IEEE Access</i> , <b>2021</b> , 9, 91859-91873	3.5	7
66	Saturated fault tolerant control based on partially decoupled unknown-input observer: a new integrated design strategy. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 2104-2113	2.5	6
65	Evaluation of air quality in Sunway City, Selangor, Malaysia from a mobile monitoring campaign using air pollution micro-sensors. <i>Environmental Pollution</i> , <b>2020</b> , 265, 115058	9.3	6
64	New results in disturbance decoupled fault reconstruction in linear uncertain systems using two sliding mode observers in cascade. <i>International Journal of Control, Automation and Systems</i> , <b>2010</b> , 8, 506-518	2.9	6
63	Patient asynchrony modelling during controlled mechanical ventilation therapy. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 183, 105103	6.9	6
62	State and delay reconstruction for nonlinear systems with input delays. <i>Applied Mathematics and Computation</i> , <b>2021</b> , 390, 125609	2.7	6
61	Sliding mode observer for estimating states and faults of linear time-delay systems with outputs subject to delays. <i>Automatica</i> , <b>2021</b> , 124, 109274	5.7	6
60	Robust Fault Detection Using Sliding Mode Observers293-312		5
59	Secure Communication Through a Chaotic System and a Sliding-Mode Observer. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-13	7.3	5
58	Bi-Level Coordinated Merging of Connected and Automated Vehicles at Roundabouts. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
57	Virtual Mechanical Ventilation Protocol I A Model-based Method To determine MV Settings. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 16119-16124	0.7	5
56	Fuzzy-tuned model predictive control for dynamic eco-driving on hilly roads. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 99, 106875	7.5	5
55	The development of a fault-tolerant control approach and its implementation on a flexible arm robot. <i>Advanced Robotics</i> , <b>2007</b> , 21, 887-904	1.7	4

54	Sliding mode observers for reconstruction of simultaneous actuator and sensor faults		4
53	Robust Multimodal Indirect Sensing for Soft Robots Via Neural Network-Aided Filter-Based Estimation. <i>Soft Robotics</i> , <b>2021</b> ,	9.2	4
52	H-infinity based Extended Kalman Filter for State Estimation in Highly Non-linear Soft Robotic System <b>2019</b> ,		4
51	New results in common functional state estimation for two linear systems with unknown inputs. <i>International Journal of Control, Automation and Systems</i> , <b>2015</b> , 13, 1538-1543	2.9	3
50	Autopilot and guidance law design considering impact angle and time. <i>IET Control Theory and Applications</i> , <b>2018</b> , 12, 221-232	2.5	3
49			3
48	A Nonlinear Observer for Robust Fault Reconstruction in One-Sided Lipschitz and Quadratically Inner-Bounded Nonlinear Descriptor Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 22455-22469	3.5	3
47	Coverage Control of a Mobile Multi-Agent Serving System in Dynamical Environment <b>2018</b> ,		3
46	Stochastic Modelling of Respiratory System Elastance for Mechanically Ventilated Respiratory Failure Patients. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 1	4.7	3
45	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 6230-6240	11.9	3
44	Future trends in I&M: Indirect sensing in soft robots using observers/filters. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2020</b> , 23, 42-43	1.4	2
43	Automatic aircraft landing control using Nonlinear Energy Method <b>2010</b> ,		2
42	Disturbance Decoupled Fault Reconstruction using Sliding Mode Observers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 7215-7220		2
41	Feedback controller and observer design to maximize stability radius		2
40	Sliding mode observers for robust fault reconstruction in nonlinear systems <b>2003</b> , 373-383		2
39	Curvature and Force Estimation for a Soft Finger using an EKF with Unknown Input Optimization. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 8506-8512	0.7	2
38	Protocol conception for safe selection of mechanical ventilation settings for respiratory failure Patients.. <i>Computer Methods and Programs in Biomedicine</i> , <b>2021</b> , 214, 106577	6.9	2
37	Tolerance Towards Sensor Faults: An Application to a Flexible Arm Manipulator. <i>International Journal of Advanced Robotic Systems</i> , <b>2006</b> , 3, 46	1.4	2

36	Design and Analysis of a Gripper with Interchangeable Soft Fingers for Ungrounded Mobile Robots <b>2019,</b>		2
35	Observer-Based Fault-Tolerant Control for Non-Infinately Observable Descriptor Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 123-145	0.8	2
34	Predictive Uncertainty Estimation Using Deep Learning for Soft Robot Multimodal Sensing. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 951-957	4.2	2
33	Impact time and angle constrained integrated guidance and control with application to salvo attack. <i>Asian Journal of Control</i> , <b>2020</b> , 22, 1211-1220	1.7	2
32	Sliding Mode Observers for Fault Detection. <i>Advances in Industrial Control</i> , <b>2011</b> , 53-98	0.3	2
31	Fault detection in a rotational system with an eccentric load using sliding mode observer <b>2015,</b>		1
30	Detecting spongiosis in stained histopathological specimen using multispectral imaging and machine learning <b>2014,</b>		1
29	Adaptive Sliding Mode Fault Tolerant Control. <i>Advances in Industrial Control</i> , <b>2011</b> , 187-224	0.3	1
28	Sliding Modes for Fault Detection and Fault Tolerant Control. <i>Lecture Notes in Control and Information Sciences</i> , <b>2011</b> , 293-323	0.5	1
27	<b>2006,</b>		1
26	<b>2006,</b>		1
25	Roll and Yaw Stabilisation using Nonlinear Energy Method <b>2006,</b>		1
24	Implementation of a Sliding Mode Observer for Robust Reconstruction of Faults on a Crane System. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2003</b> , 36, 1059-1064		1
23	SLIDING MODE OBSERVERS FOR ROBUST FAULT DETECTION & RECONSTRUCTION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 347-352		1
22	An improved look-up table-based direct torque control for permanent magnet synchronous generator using Vienna rectifier. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 138, 107875	5.1	1
21	SIMONA Implementation Results. <i>Advances in Industrial Control</i> , <b>2011</b> , 271-290	0.3	1
20	An Incentive Based Dynamic Ride-Sharing System for Smart Cities. <i>Smart Cities</i> , <b>2021</b> , 4, 532-547	3.3	1
19	Area Coverage by a Group of UAVs using the Broadcast Control Framework. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 370-375	0.7	1

18	A novel unknown input interval observer for systems not satisfying relative degree condition. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 2762-2782	3.6	1
17	Identifiability of Patient Effort Respiratory Mechanics Model <b>2018</b> ,		1
16	Optimal Schedules of Light Exposure for Multiple Individuals for Quick Circadian Alignment. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 16445-16450	0.7	0
15	Closed-Structure Compliant Gripper With Morphologically Optimized Multi-Material Fingertips for Aerial Grasping. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 887-894	4.2	0
14	Wearable light spectral sensor optimized for measuring daily Uvic light exposure. <i>Optics Express</i> , <b>2021</b> , 29, 27612-27627	3.3	0
13	Coverage control of mobile agents using multi-step broadcast control. <i>Robotica</i> , 1-16	2.1	0
12	New results in disturbance decoupled fault reconstruction in linear uncertain systems using two sliding mode observers in cascade. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 780-785		
11	Reconstruction of Sensor Faults. <i>Advances in Industrial Control</i> , <b>2011</b> , 129-165	0.3	
10	Robust Fault Reconstruction using Observers in Cascade. <i>Advances in Industrial Control</i> , <b>2011</b> , 99-127	0.3	
9	Model-Reference Sliding Mode FTC. <i>Advances in Industrial Control</i> , <b>2011</b> , 247-270	0.3	
8	First-Order Sliding Mode Concepts. <i>Advances in Industrial Control</i> , <b>2011</b> , 29-51	0.3	
7	Case Study: Implementation of Sensor Fault Reconstruction Schemes. <i>Advances in Industrial Control</i> , <b>2011</b> , 167-185	0.3	
6	Fault Tolerant Control with Online Control Allocation. <i>Advances in Industrial Control</i> , <b>2011</b> , 225-246	0.3	
5	116 Knowing what Older Adults Want: A Soft Service Robot in Object Retrieval Tasks. <i>Age and Ageing</i> , <b>2019</b> , 48, iv28-iv33	3	
4	Generative Adversarial Network in Reconstructing Asynchronous Breathing Cycle. <i>IFMBE Proceedings</i> , <b>2021</b> , 23-34	0.2	
3	Design and Prototyping of a Sweep Coating Method for Generating Thin Films. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 316-326	0.4	
2	Modelling Patient's Spontaneous Effort During Controlled Mechanical Ventilation Using Basis Functions. <i>IFMBE Proceedings</i> , <b>2021</b> , 35-45	0.2	
1	Integration of Time-Varying threshold-based Fault Detection and Tolerant Control. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 806-811	0.7	



