

# Chee P Tan

## List of Publications by Year in Descending Order

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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	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
124	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
123	Bi-Level Coordinated Merging of Connected and Automated Vehicles at Roundabouts. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
122	Observer-Based Fault-Tolerant Control for Non-Infinitely Observable Descriptor Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 123-145	0.8	2
121	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
120	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
119	An Incentive Based Dynamic Ride-Sharing System for Smart Cities. <i>Smart Cities</i> , <b>2021</b> , 4, 532-547	3.3	1
118	Robust Multimodal Indirect Sensing for Soft Robots Via Neural Network-Aided Filter-Based Estimation. <i>Soft Robotics</i> , <b>2021</b> ,	9.2	4
117	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
116	State and delay reconstruction for nonlinear systems with input delays. <i>Applied Mathematics and Computation</i> , <b>2021</b> , 390, 125609	2.7	6
115	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
114	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
113	Generative Adversarial Network in Reconstructing Asynchronous Breathing Cycle. <i>IFMBE Proceedings</i> , <b>2021</b> , 23-34	0.2	
112	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	
111	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
110	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
109	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

108	Modelling Patient's Spontaneous Effort During Controlled Mechanical Ventilation Using Basis Functions. <i>IFMBE Proceedings</i> , <b>2021</b> , 35-45	0.2	
107	Wearable light spectral sensor optimized for measuring daily circadian light exposure. <i>Optics Express</i> , <b>2021</b> , 29, 27612-27627	3.3	0
106	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
105	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 6230-6240	11.9	3
104	. <i>IEEE Access</i> , <b>2021</b> , 9, 91859-91873	3.5	7
103	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
102	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
101	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
100	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
99	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
98	Virtual Mechanical Ventilation Protocol – A Model-based Method To determine MV Settings. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 16119-16124	0.7	5
97	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
96	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
95	Robust fault reconstruction for a class of nonlinear systems. <i>Automatica</i> , <b>2020</b> , 113, 108718	5.7	16
94	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
93	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
92	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
91	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

90	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
89	Patient asynchrony modelling during controlled mechanical ventilation therapy. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 183, 105103	6.9	6
88	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
87	Adaptive analytical approach to lean and green operations. <i>Journal of Cleaner Production</i> , <b>2019</b> , 235, 190-209	10.3	15
86	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
85	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
84	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
83	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 8557-8569	6.8	19
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	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
80	Design and Analysis of a Gripper with Interchangeable Soft Fingers for Ungrounded Mobile Robots <b>2019</b> ,		2
79	Non-linear System Identification and State Estimation in a Pneumatic Based Soft Continuum Robot <b>2019</b> ,		8
78	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
77	H-infinity based Extended Kalman Filter for State Estimation in Highly Non-linear Soft Robotic System <b>2019</b> ,		4
76	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	
75	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
74	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2019</b> , 55, 2226-2240	3.7	7
73	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

72	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
71	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
70	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
69	Coverage Control of a Mobile Multi-Agent Serving System in Dynamical Environment <b>2018</b> ,		3
68	Identifiability of Patient Effort Respiratory Mechanics Model <b>2018</b> ,		1
67	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
66	Integration of Time-Varying threshold-based Fault Detection and Tolerant Control. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 806-811	0.7	
65	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
64	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
63	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
62	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
61	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
60	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
59	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
58	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
57	A Spectrally Tunable Smart LED Lighting System With Closed-Loop Control. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 4452-4459	4	26
56	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
55	Fault detection in a rotational system with an eccentric load using sliding mode observer <b>2015</b> ,		1

54	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
53	Detecting spongiosis in stained histopathological specimen using multispectral imaging and machine learning <b>2014</b> ,		1
52	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
51	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
50	Disturbance decoupled fault reconstruction using cascaded sliding mode observers. <i>Automatica</i> , <b>2012</b> , 48, 794-799	5.7	21
49	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
48	Adaptive Sliding Mode Fault Tolerant Control. <i>Advances in Industrial Control</i> , <b>2011</b> , 187-224	0.3	1
47	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
46	Fault Detection and Fault-Tolerant Control Using Sliding Modes. <i>Advances in Industrial Control</i> , <b>2011</b>	0.3	165
45	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
44	Reconstruction of Sensor Faults. <i>Advances in Industrial Control</i> , <b>2011</b> , 129-165	0.3	
43	Robust Fault Reconstruction using Observers in Cascade. <i>Advances in Industrial Control</i> , <b>2011</b> , 99-127	0.3	
42	Model-Reference Sliding Mode FTC. <i>Advances in Industrial Control</i> , <b>2011</b> , 247-270	0.3	
41	SIMONA Implementation Results. <i>Advances in Industrial Control</i> , <b>2011</b> , 271-290	0.3	1
40	First-Order Sliding Mode Concepts. <i>Advances in Industrial Control</i> , <b>2011</b> , 29-51	0.3	
39	Case Study: Implementation of Sensor Fault Reconstruction Schemes. <i>Advances in Industrial Control</i> , <b>2011</b> , 167-185	0.3	
38	Fault Tolerant Control with Online Control Allocation. <i>Advances in Industrial Control</i> , <b>2011</b> , 225-246	0.3	
37	Fault Tolerant Control and Fault Detection and Isolation. <i>Advances in Industrial Control</i> , <b>2011</b> , 7-27	0.3	16

36	Sliding Mode Observers for Fault Detection. <i>Advances in Industrial Control</i> , <b>2011</b> , 53-98	0.3	2
35	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
34	Sliding mode methods for fault detection and fault tolerant control <b>2010</b> ,		15
33	Automatic aircraft landing control using Nonlinear Energy Method <b>2010</b> ,		2
32	Disturbance decoupled fault reconstruction using sliding mode observers. <i>Asian Journal of Control</i> , <b>2010</b> , 12, 656-660	1.7	8
31	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
30	Terminal sliding mode observers for a class of nonlinear systems. <i>Automatica</i> , <b>2010</b> , 46, 1401-1404	5.7	111
29	Sliding mode estimation schemes for incipient sensor faults. <i>Automatica</i> , <b>2009</b> , 45, 1679-1685	5.7	105
28	Robust fault reconstruction using multiple sliding mode observers in cascade: Development and design <b>2009</b> ,		12
27	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		
26	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
25	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
24	Extended results on robust state estimation and fault detection. <i>Automatica</i> , <b>2008</b> , 44, 2027-2033	5.7	37
23	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
22	Robust sensor fault reconstruction applied in real-time to an inverted pendulum. <i>Mechatronics</i> , <b>2007</b> , 17, 368-380	3	10
21	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
20	Sliding-Mode Observers <b>2007</b> , 221-242		12
19	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

18	2006,			1
17	2006,			1
16	Roll and Yaw Stabilisation using Nonlinear Energy Method	2006,		1
15	Sensor fault tolerant control using sliding mode observers. <i>Control Engineering Practice</i> ,	2006, 14, 897-908		121
14	Tolerance Towards Sensor Faults: An Application to a Flexible Arm Manipulator. <i>International Journal of Advanced Robotic Systems</i> ,	2006, 3, 46	1.4	2
13	Fault tolerant control using sliding mode observers	2004,		12
12	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> ,	2003, 36, 1059-1064		1
11	Sliding mode observers for robust detection and reconstruction of actuator and sensor faults. <i>International Journal of Robust and Nonlinear Control</i> ,	2003, 13, 443-463	3.6	313
10	Sliding mode observers for robust fault reconstruction in nonlinear systems	2003, 373-383		2
9	Sliding mode observers for detection and reconstruction of sensor faults. <i>Automatica</i> ,	2002, 38, 1815-1827	3.7	249
8	On the Development and Application of Sliding Mode Observers	2002, 253-282		65
7	SLIDING MODE OBSERVERS FOR ROBUST FAULT DETECTION & RECONSTRUCTION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> ,	2002, 35, 347-352		1
6	An LMI approach for designing sliding mode observers. <i>International Journal of Control</i> ,	2001, 74, 1559-1568	1.6	107
5	Feedback controller and observer design to maximize stability radius			2
4	Robust Fault Detection Using Sliding Mode Observers	293-312		5
3	Sliding mode observers for reconstruction of simultaneous actuator and sensor faults			4
2				3
1	Coverage control of mobile agents using multi-step broadcast control. <i>Robotica</i> ,	1-16	2.1	0



