

# Ronald Patton

## List of Publications by Year in descending order

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62  
papers

2,190  
citations

471509

17  
h-index

414414

32  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of unknown input observers and robust fault detection filters. International Journal of Control, 1996, 63, 85-105.	1.9	716
2	A new strategy for integration of fault estimation within fault-tolerant control. Automatica, 2016, 69, 48-59.	5.0	245
3	On eigenstructure assignment for robust fault diagnosis. International Journal of Robust and Nonlinear Control, 2000, 10, 1193-1208.	3.7	106
4	Active fault tolerant control for nonlinear systems with simultaneous actuator and sensor faults. International Journal of Control, Automation and Systems, 2013, 11, 1149-1161.	2.7	93
5	Integrated fault estimation and fault-tolerant control for uncertain Lipschitz nonlinear systems. International Journal of Robust and Nonlinear Control, 2017, 27, 761-780.	3.7	82
6	Optimal residual design for fault diagnosis using multi-objective optimization and genetic algorithms. International Journal of Systems Science, 1996, 27, 567-576.	5.5	81
7	An active fault tolerant control approach to an offshore wind turbine model. Renewable Energy, 2015, 75, 788-798.	8.9	81
8	Fault estimation and active fault tolerant control for linear parameter varying descriptor systems. International Journal of Robust and Nonlinear Control, 2015, 25, 689-706.	3.7	62
9	Hierarchical-Structure-Based Fault Estimation and Fault-Tolerant Control for Multiagent Systems. IEEE Transactions on Control of Network Systems, 2019, 6, 586-597.	3.7	59
10	Integrated Design of Fault-Tolerant Control for Nonlinear Systems Based on Fault Estimation and Tâ€“S Fuzzy Modeling. IEEE Transactions on Fuzzy Systems, 2017, 25, 1141-1154.	9.8	55
11	Distributed Fault-Tolerant Consensus Tracking Control of Multi-Agent Systems Under Fixed and Switching Topologies. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1646-1658.	5.4	50
12	Integrated fault-tolerant control for a 3â€“DOF helicopter with actuator faults and saturation. IET Control Theory and Applications, 2017, 11, 2232-2241.	2.1	47
13	Nonlinear Modeling and Verification of a Heaving Point Absorber for Wave Energy Conversion. IEEE Transactions on Sustainable Energy, 2018, 9, 453-461.	8.8	44
14	Numerical and experimental studies of excitation force approximation for wave energy conversion. Renewable Energy, 2018, 125, 877-889.	8.9	43
15	Viscosity effect on a point absorber wave energy converter hydrodynamics validated by simulation and experiment. Renewable Energy, 2018, 129, 500-512.	8.9	42
16	Decentralized Output Sliding-Mode Fault-Tolerant Control for Heterogeneous Multiagent Systems. IEEE Transactions on Cybernetics, 2020, 50, 4934-4945.	9.5	38
17	Friction compensation as a fault-tolerant control problem. International Journal of Systems Science, 2010, 41, 987-1001.	5.5	33
18	Robust actuator multiplicative fault estimation with unknown input decoupling for a wind turbine system. , 2013, , .		26

#	ARTICLE	IF	CITATIONS
19	Active FTC for hydraulic pitch system for an off-shore wind turbine. , 2013, , .		19
20	Wind turbine power maximisation based on adaptive sensor fault tolerant sliding mode control. , 2012, , .		16
21	Robust Fault-Tolerant Control based on a Functional Observer for Linear Descriptor Systems. IFAC-PapersOnLine, 2015, 48, 138-143.	0.9	15
22	Integrated Fault-Tolerant Control for Close Formation Flight. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 839-852.	4.7	15
23	LPV fault estimation and FTC of a two-link manipulator. , 2010, , .		14
24	A robust adaptive approach to wind turbine pitch actuator component fault estimation. , 2014, , .		14
25	Fault-tolerant Individual Pitch Control using Adaptive Sliding Mode Observer. IFAC-PapersOnLine, 2018, 51, 1127-1132.	0.9	14
26	Estimation of wave excitation force for wave energy converters. , 2016, , .		13
27	Integrated Fault Estimation and Fault Tolerant Control: A Joint Design. IFAC-PapersOnLine, 2015, 48, 517-522.	0.9	12
28	Decentralized fault estimation and fault-tolerant control for large-scale interconnected systems: An integrated design approach. , 2016, , .		11
29	Wind turbine asymmetrical load reduction with pitch sensor fault compensation. Wind Energy, 2020, 23, 1523-1541.	4.2	10
30	Aggressive Maneuver Oriented Robust Actuator Fault Estimation of a 3-DOF Helicopter Prototype Considering Measurement Noises. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1672-1682.	5.8	10
31	A Fault Detection filter design method for a class of linear time-varying systems. , 2008, , .		9
32	Fault Detection with Observers and Genetic Programming: Application to the DAMADICS Benchmark Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1101-1106.	0.4	8
33	A Relaxed Solution to Unknown Input Observers for State and Fault Estimation. IFAC-PapersOnLine, 2015, 48, 1048-1053.	0.9	8
34	Output feedback sliding mode FTC for a class of nonlinear inter-connected systems. IFAC-PapersOnLine, 2015, 48, 1140-1145.	0.9	8
35	A robust LPV fault detection approach using parametric eigenstructure assignment. , 2012, , .		7
36	Wind turbine sensor fault tolerant control via a multiple-model approach. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
37	Sensor fault tolerant control of a wind turbine via Takagi-Sugeno fuzzy observer and model predictive control. , 2014, , .		7
38	Observer-Based Unknown Input Estimator of Wave Excitation Force for a Wave Energy Converter. IEEE Transactions on Control Systems Technology, 2020, 28, 2665-2672.	5.2	7
39	Actuator fault diagnosis in a continuous stirred tank reactor using identification techniques. , 2001, , .		6
40	Distributed Antitack Fault-Tolerant Tracking Control for Vehicle Platoon Systems Under Cyber-Physical Threats. IEEE Transactions on Industrial Informatics, 2023, 19, 7825-7834.	11.3	6
41	A multiple-model approach to fault tolerant tracking control for non-linear systems. , 2012, , .		5
42	Integrated fault estimation and fault-tolerant control design for large-scale interconnected systems. , 2016, , .		5
43	A continuous control approach to point absorber wave energy conversion. , 2016, , .		5
44	Phase modulation of robust variable structure control for nonlinear aircraft. , 2012, , .		4
45	Hierarchical structure-based adaptive fault-tolerant consensus control for multiple 3-DOF laboratory helicopters. International Journal of Adaptive Control and Signal Processing, 2020, 34, 992-1012.	4.1	4
46	Integral hierarchical SMC of uncertain interconnected systems. , 2010, , .		3
47	Fault tolerant plug and play vibration control in building structures. , 2010, , .		3
48	Active fault tolerant control of a wind turbine via T-S fuzzy model predictive control. , 2014, , .		3
49	Wind Turbine Load Mitigation Using MPC with Gaussian Wind Speed Prediction. , 2018, , .		3
50	Asymptotic Estimation of State, Fault and Perturbation for Nonlinear Systems and Its Fault-tolerant Control Application. International Journal of Control, Automation and Systems, 2021, 19, 1175-1182.	2.7	3
51	Sliding Mode State and Fault Estimation for Decentralized Systems. Mathematical Engineering, 2016, , 243-281.	0.2	3
52	Recurrent wavelet neural networks applied to fault diagnosis. , 2008, , .		2
53	An LPV pole-placement approach to friction compensation as an FTC problem. , 2010, , .		2
54	LPV approach to friction estimation as a fault diagnosis problem. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
55	An adaptive sliding mode approach to decentralized control of uncertain systems. , 2012, , .		1
56	Robust decentralized control design using integral sliding mode control. , 2012, , .		1
57	Wave Excitation Force Estimation and Forecasting for WEC Power Conversion Maximisation. , 2019, , .		1
58	On eigenstructure assignment for robust fault diagnosis. International Journal of Robust and Nonlinear Control, 2000, 10, 1193-1208.	3.7	1
59	Component fault diagnosis using dynamic co-active neuro-fuzzy systems. , 2007, , .		0
60	Low eigenvalue sensitivity eigenstructure assignment to linear parameter varying systems. , 2012, , .		0
61	Static output feedback adaptive integral sliding control for interconnected nonlinear systems. , 2013, , .		0
62	A model-based predictive control for FTC for wind turbine wind speed sensor fault. , 2013, , .		0