# Ronald Patton

List of Publications by Year
in descending order

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|---|---|---|---|
| 62 papers | 2,190 citations | 471509<br>17 h-index | 414414<br>32 g-index |
| 62 all docs | 62 docs citations | 62 times ranked | 1371 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Distributed Antittack Fault-Tolerant Tracking Control for Vehicle Platoon Systems Under Cyber-Physical Threats. IEEE Transactions on Industrial Informatics, 2023, 19, 7825-7834. | 11.3 | 6 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Integrated Fault-Tolerant Control for Close Formation Flight. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 839-852. | 4.7 | 15 |
| 6 | Decentralized Output Sliding-Mode Fault-Tolerant Control for Heterogeneous Multiagent Systems. IEEE Transactions on Cybernetics, 2020, 50, 4934-4945. | 9.5 | 38 |
| 7 | 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 |
| 8 | Wind turbine asymmetrical load reduction with pitch sensor fault compensation. Wind Energy, 2020, 23, 1523-1541. | 4.2 | 10 |
| 9 | 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 |
| 10 | 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 |
| 11 | Wave Excitation Force Estimation and Forecasting for WEC Power Conversion Maximisation. , 2019, , . | | 1 |
| 12 | Numerical and experimental studies of excitation force approximation for wave energy conversion. Renewable Energy, 2018, 125, 877-889. | 8.9 | 43 |
| 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 | Wind Turbine Load Mitigation Using MPC with Gaussian Wind Speed Prediction. , 2018, , . | | 3 |
| 15 | Fault-tolerant Individual Pitch Control using Adaptive Sliding Mode Observer. IFAC-PapersOnLine, 2018, 51, 1127-1132. | 0.9 | 14 |
| 16 | Viscosity effect on a point absorber wave energy converter hydrodynamics validated by simulation and experiment. Renewable Energy, 2018, 129, 500-512. | 8.9 | 42 |
| 17 | Integrated Design of Fault-Tolerant Control for Nonlinear Systems Based on Fault Estimation and T-S Fuzzy Modeling. IEEE Transactions on Fuzzy Systems, 2017, 25, 1141-1154. | 9.8 | 55 |
| 18 | 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 |

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|---|---------|-----|-----------|
| 19 | Integrated fault‐tolerant control for a 3‐DOF helicopter with actuator faults and saturation. IET Control Theory and Applications, 2017, 11, 2232-2241. | 2.1 | 47 |
| 20 | Decentralized fault estimation and fault-tolerant control for large-scale interconnected systems: An integrated design approach. , 2016, , . | | 11 |
| 21 | Integrated fault estimation and fault-tolerant control design for large-scale interconnected systems. , 2016, , . | | 5 |
| 22 | A continuous control approach to point absorber wave energy conversion. , 2016, , . | | 5 |
| 23 | Estimation of wave excitation force for wave energy converters. , 2016, , . | | 13 |
| 24 | A new strategy for integration of fault estimation within fault-tolerant control. Automatica, 2016, 69, 48-59. | 5.0 | 245 |
| 25 | Sliding Mode State and Fault Estimation for Decentralized Systems. Mathematical Engineering, 2016, , 243-281. | 0.2 | 3 |
| 26 | A Relaxed Solution to Unknown Input Observers for State and Fault Estimation. IFAC-PapersOnLine, 2015, 48, 1048-1053. | 0.9 | 8 |
| 27 | Integrated Fault Estimation and Fault Tolerant Control: A Joint Design. IFAC-PapersOnLine, 2015, 48, 517-522. | 0.9 | 12 |
| 28 | Output feedback sliding mode FTC for a class of nonlinear inter-connected systems. IFAC-PapersOnLine, 2015, 48, 1140-1145. | 0.9 | 8 |
| 29 | Robust Fault-Tolerant Control based on a Functional Observer for Linear Descriptor Systems. IFAC-PapersOnLine, 2015, 48, 138-143. | 0.9 | 15 |
| 30 | 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 |
| 31 | An active fault tolerant control approach to an offshore wind turbine model. Renewable Energy, 2015, 75, 788-798. | 8.9 | 81 |
| 32 | Active fault tolerant control of a wind turbine via T-S fuzzy model predictive control. , 2014, , . | | 3 |
| 33 | A robust adaptive approach to wind turbine pitch actuator component fault estimation. , 2014, , . | | 14 |
| 34 | Sensor fault tolerant control of a wind turbine via Takagi-Sugeno fuzzy observer and model predictive control. , 2014, , . | | 7 |
| 35 | 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 |
| 36 | Static output feedback adaptive integral sliding control for interconnected nonlinear systems. , 2013, , . | | 0 |

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|---|---------|----|-----------|
| 37 | A model-based predictive control for FTC for wind turbine wind speed sensor fault. , 2013, , . | | 0 |
| 38 | Robust actuator multiplicative fault estimation with unknown input decoupling for a wind turbine system. , 2013, , . | | 26 |
| 39 | Active FTC for hydraulic pitch system for an off-shore wind turbine. , 2013, , . | | 19 |
| 40 | Low eigenvalue sensitivity eigenstructure assignment to linear parameter varying systems. , 2012, , . | | 0 |
| 41 | An adaptive sliding mode approach to decentralized control of uncertain systems. , 2012, , . | | 1 |
| 42 | A robust LPV fault detection approach using parametric eigenstructure assignment. , 2012, , . | | 7 |
| 43 | Wind turbine sensor fault tolerant control via a multiple-model approach. , 2012, , . | | 7 |
| 44 | Wind turbine power maximisation based on adaptive sensor fault tolerant sliding mode control. , 2012, , . | | 16 |
| 45 | Phase modulation of robust variable structure control for nonlinear aircraft. , 2012, , . | | 4 |
| 46 | Robust decentralized control design using integral sliding mode control. , 2012, , . | | 1 |
| 47 | A multiple-model approach to fault tolerant tracking control for non-linear systems. , 2012, , . | | 5 |
| 48 | LPV fault estimation and FTC of a two-link manipulator. , 2010, , . | | 14 |
| 49 | Friction compensation as a fault-tolerant control problem. International Journal of Systems Science, 2010, 41, 987-1001. | 5.5 | 33 |
| 50 | An LPV pole-placement approach to friction compensation as an FTC problem. , 2010, , . | | 2 |
| 51 | Integral hierarchical SMC of uncertain interconnected systems. , 2010, , . | | 3 |
| 52 | LPV approach to friction estimation as a fault diagnosis problem. , 2010, , . | | 2 |
| 53 | Fault tolerant plug and play vibration control in building structures. , 2010, , . | | 3 |
| 54 | Recurrent wavelet neural networks applied to fault diagnosis. , 2008, , . | | 2 |

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|---|---|---|---|
| 55 | A Fault Detection filter design method for a class of linear time-varying systems. , 2008, , . | | 9 |
| 56 | Component fault diagnosis using dynamic co-active neuro-fuzzy systems. , 2007, , . | | 0 |
| 57 | 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 |
| 58 | Actuator fault diagnosis in a continuous stirred tank reactor using identification techniques. , 2001, , . | | 6 |
| 59 | On eigenstructure assignment for robust fault diagnosis. International Journal of Robust and Nonlinear Control, 2000, 10, 1193-1208. | 3.7 | 106 |
| 60 | On eigenstructure assignment for robust fault diagnosis. International Journal of Robust and Nonlinear Control, 2000, 10, 1193-1208. | 3.7 | 1 |
| 61 | Design of unknown input observers and robust fault detection filters. International Journal of Control, 1996, 63, 85-105. | 1.9 | 716 |
| 62 | 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 |