

# Jason J Ford

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

1,005  
citations

471509

17  
h-index

552781

26  
g-index

76  
all docs

76  
docs citations

76  
times ranked

639  
citing authors

#	ARTICLE	IF	CITATIONS
1	Airborne vision-based collision-detection system. Journal of Field Robotics, 2011, 28, 137-157.	6.0	98
2	Characterization of Sky-region Morphological-temporal Airborne Collision Detection. Journal of Field Robotics, 2013, 30, 171-193.	6.0	58
3	Vision-based detection and tracking of aerial targets for UAV collision avoidance. , 2010, , .		54
4	Efficient and robust model predictive control for first swing transient stability of power systems using flexible AC transmission systems devices. IET Generation, Transmission and Distribution, 2008, 2, 731.	2.5	41
5	Adaptive load shedding and regional protection. International Journal of Electrical Power and Energy Systems, 2009, 31, 611-618.	5.5	40
6	Toward automated power line corridor monitoring using advanced aircraft control and multisource feature fusion. Journal of Field Robotics, 2012, 29, 4-24.	6.0	36
7	Finite-horizon inverse optimal control for discrete-time nonlinear systems. Automatica, 2018, 87, 442-446.	5.0	34
8	Adaptive estimation of HMM transition probabilities. IEEE Transactions on Signal Processing, 1998, 46, 1374-1385.	5.3	33
9	On the use of $df/dt$ in power system emergency control. , 2009, , .		28
10	Inverse Open-Loop Noncooperative Differential Games and Inverse Optimal Control. IEEE Transactions on Automatic Control, 2020, 65, 897-904.	5.7	27
11	Regional frequency response analysis under normal and emergency conditions. Electric Power Systems Research, 2009, 79, 837-845.	3.6	26
12	Relative Entropy Rate Based Multiple Hidden Markov Model Approximation. IEEE Transactions on Signal Processing, 2010, 58, 165-174.	5.3	25
13	Detection of aircraft below the horizon for vision-based detect and avoid in unmanned aircraft systems. Journal of Field Robotics, 2017, 34, 1378-1391.	6.0	25
14	Learning to Detect Aircraft for Long-Range Vision-Based Sense-and-Avoid Systems. IEEE Robotics and Automation Letters, 2018, 3, 4383-4390.	5.1	24
15	Control of Aircraft for Inspection of Linear Infrastructure. IEEE Transactions on Control Systems Technology, 2011, 19, 1397-1409.	5.2	23
16	On adaptive HMM state estimation. IEEE Transactions on Signal Processing, 1998, 46, 475-486.	5.3	22
17	Online inverse optimal control for control-constrained discrete-time systems on finite and infinite horizons. Automatica, 2020, 120, 109109.	5.0	21
18	Vision-Based Estimation of Airborne Target Pseudobearing Rate using Hidden Markov Model Filters. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 2129-2145.	4.7	20

#	ARTICLE	IF	CITATIONS
19	Vision Based Control for Fixed Wing UAVs Inspecting Locally Linear Infrastructure Using Skid-to-Turn Maneuvers. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 29-42.	3.4	19
20	Evaluation of Maritime Vision Techniques for Aerial Search of Humans in Maritime Environments. , 2008, , .		18
21	Online Estimation of Allan Variance Parameters. Journal of Guidance, Control, and Dynamics, 2000, 23, 980-987.	2.8	17
22	Hidden Markov Model Filter Banks for Dim Target Detection from Image Sequences. , 2008, , .		16
23	Sense and avoid technology developments at Queensland University of Technology. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 28-37.	1.3	16
24	String stable integral control design for vehicle platoons with disturbances. Automatica, 2021, 127, 109542.	5.0	16
25	Demonstration of closed-loop airborne sense-and-avoid using machine vision. IEEE Aerospace and Electronic Systems Magazine, 2012, 27, 4-7.	1.3	15
26	A vision-based sense-and-avoid system tested on a ScanEagle UAV. , 2017, , .		15
27	Tensor Field guidance for time-based waypoint arrival of UAVs by 4D trajectory generation. , 2009, , .		14
28	Misspecified and Asymptotically Minimax Robust Quickest Change Detection. IEEE Transactions on Signal Processing, 2017, 65, 5730-5742.	5.3	14
29	Below Horizon Aircraft Detection Using Deep Learning for Vision-Based Sense and Avoid. , 2019, , .		13
30	Asymptotic Minimax Robust Quickest Change Detection for Dependent Stochastic Processes With Parametric Uncertainty. IEEE Transactions on Information Theory, 2016, 62, 6594-6608.	2.4	12
31	Inverse Noncooperative Dynamic Games * *This work has been conducted under the Australian Research Council Linkage Project LP130100483 with the support of Boeing Research and Technology Australia. IFAC-PapersOnLine, 2017, 50, 11788-11793.	0.9	11
32	Discrete-time inverse optimal control with partial-state information: A soft-optimality approach with constrained state estimation. , 2016, , .		10
33	Online Inverse Optimal Control on Infinite Horizons. , 2018, , .		10
34	Feature article: flight test and evaluation of a prototype sense and avoid system onboard a scanegle unmanned aircraft. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 6-15.	1.3	9
35	Quickest Detection of Intermittent Signals With Application to Vision-Based Aircraft Detection. IEEE Transactions on Control Systems Technology, 2019, 27, 2703-2710.	5.2	9
36	On-line estimation of Allan variance parameters. , 1999, , .		8

#	ARTICLE	IF	CITATIONS
37	Detection versus False Alarm Characterisation of a Vision-Based Airborne Dim-Target Collision Detection System. , 2011, , .		8
38	Inverse noncooperative differential games. , 2017, , .		8
39	Relative entropy rate based model selection for linear hybrid system filters of uncertain nonlinear systems. Signal Processing, 2013, 93, 12-22.	3.7	7
40	On Power System Frequency Control in Emergency Conditions. Journal of Electrical Engineering and Technology, 2008, 3, 499-508.	2.0	7
41	On-line almost-sure parameter estimation for partially observed discrete-time linear systems with known noise characteristics. International Journal of Adaptive Control and Signal Processing, 2002, 16, 435-453.	4.1	6
42	Robust Control of Nonlinear Jump Parameter Systems Governed by Uncertain Chains. IEEE Transactions on Automatic Control, 2008, 53, 1520-1526.	5.7	6
43	HMM relative entropy rate concepts for vision-based aircraft manoeuvre detection. , 2013, , .		6
44	Adaptive detection threshold selection for vision-based sense and avoid. , 2017, , .		6
45	Minimax Robust Quickest Change Detection in Systems and Signals With Unknown Transients. IEEE Transactions on Automatic Control, 2019, 64, 2976-2982.	5.7	6
46	String Stability in Microgrids Using Frequency Controlled Inverter Chains. , 2022, 6, 1484-1489.		6
47	Practical stability of approximating discrete-time filters with respect to model mismatch. Automatica, 2012, 48, 2965-2970.	5.0	5
48	On feasibility of regional frequency-based emergency control plans. Energy Conversion and Management, 2009, 50, 1656-1663.	9.2	4
49	Minimax Robust Quickest Change Detection With Exponential Delay Penalties. , 2017, 1, 280-285.		4
50	Predicting to Improve: Integrity Measures for Assessing Visual Localization Performance. IEEE Robotics and Automation Letters, 2022, 7, 9627-9634.	5.1	4
51	Improved maritime target tracker using colour fusion. , 2009, , .		3
52	Automated aerial inspection guidance with improved turn planning. , 2013, , .		3
53	Change Detection for Undermodelled Processes Using Mismatched Hidden Markov Model Test Filters. , 2017, 1, 238-243.		3
54	Bayesian Inference and Prediction of Wave-induced Ship Motion based on Discrete-frequency Model Approximations. IFAC-PapersOnLine, 2018, 51, 104-109.	0.9	3

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55	Partially observed non-linear risk-sensitive optimal stopping control for non-linear discrete-time systems. <i>Systems and Control Letters</i> , 2006, 55, 770-776.	2.3	2
56	Consistent HMM parameter estimation using Kerridge inaccuracy rates. , 2013, , .		2
57	Towards strongly consistent online HMM parameter estimation using one-step Kerridge inaccuracy. <i>Signal Processing</i> , 2015, 115, 79-93.	3.7	2
58	Assisted Control for Semi-Autonomous Power Infrastructure Inspection Using Aerial Vehicles. , 2018, , .		2
59	On the informativeness of measurements in Shiryaev's Bayesian quickest change detection. <i>Automatica</i> , 2020, 111, 108645.	5.0	2
60	Robust Control of Jump Parameter Systems Governed by Uncertain Chains. , 0, , .		1
61	Practical stability of approximating discrete-time filters with respect to model mismatch using relative entropy concepts. , 2011, , .		1
62	Short-data recursive HMM parameter estimation for rapid vision-based aircraft heading estimation. , 2014, , .		1
63	Quickest detection of intermittent signals with estimated anomaly times. , 2017, , .		1
64	Detection of Parametric Roll Resonance using Bayesian Discrete-Frequency Model Selection. <i>IFAC-PapersOnLine</i> , 2018, 51, 444-449.	0.9	1
65	Reply by the Authors to J. C. Wilcox. <i>Journal of Guidance, Control, and Dynamics</i> , 2001, 24, 638-638.	2.8	0
66	Control of infrastructure inspection aircraft vertical dynamics in the presence of thermal disturbances. , 2013, , .		0
67	Coordinated change detection for UAV formations. , 2016, , .		0
68	An optimal linear prediction filter for discrete-time linear additive hybrid systems. , 2016, , .		0
69	Stable image-based visual servoing with unknown point feature correspondence. , 2017, , .		0
70	Suppression of Wave Disturbances and Tracking Control for Marine Systems. , 2019, , .		0
71	A Novel Technique for Rejecting Non-Aircraft Artefacts in Above Horizon Vision-Based Aircraft Detection. , 2020, , .		0
72	Control of underactuated marine crafts with matched disturbances. <i>International Journal of Control</i> , 0, , 1-11.	1.9	0

#	ARTICLE	IF	CITATIONS
73	Bayesian Experimental Design With Application to Dynamical Vehicle Models. IEEE Transactions on Robotics, 2021, , 1-8.	10.3	0
74	String Stable Integral Control of Vehicle Platoons with Actuator Dynamics and Disturbances. , 2020, , .		0
75	Reply by the Authors to J. C. Wilcox. Journal of Guidance, Control, and Dynamics, 2001, 24, 638-638.	2.8	0