

# 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	String Stability in Microgrids Using Frequency Controlled Inverter Chains. , 2022, 6, 1484-1489.		6
2	Predicting to Improve: Integrity Measures for Assessing Visual Localization Performance. IEEE Robotics and Automation Letters, 2022, 7, 9627-9634.	5.1	4
3	Bayesian Experimental Design With Application to Dynamical Vehicle Models. IEEE Transactions on Robotics, 2021, , 1-8.	10.3	0
4	String stable integral control design for vehicle platoons with disturbances. Automatica, 2021, 127, 109542.	5.0	16
5	On the informativeness of measurements in Shiryaev's Bayesian quickest change detection. Automatica, 2020, 111, 108645.	5.0	2
6	Inverse Open-Loop Noncooperative Differential Games and Inverse Optimal Control. IEEE Transactions on Automatic Control, 2020, 65, 897-904.	5.7	27
7	A Novel Technique for Rejecting Non-Aircraft Artefacts in Above Horizon Vision-Based Aircraft Detection. , 2020, , .		0
8	Online inverse optimal control for control-constrained discrete-time systems on finite and infinite horizons. Automatica, 2020, 120, 109109.	5.0	21
9	String Stable Integral Control of Vehicle Platoons with Actuator Dynamics and Disturbances. , 2020, , .		0
10	Minimax Robust Quickest Change Detection in Systems and Signals With Unknown Transients. IEEE Transactions on Automatic Control, 2019, 64, 2976-2982.	5.7	6
11	Below Horizon Aircraft Detection Using Deep Learning for Vision-Based Sense and Avoid. , 2019, , .		13
12	Suppression of Wave Disturbances and Tracking Control for Marine Systems. , 2019, , .		0
13	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
14	Finite-horizon inverse optimal control for discrete-time nonlinear systems. Automatica, 2018, 87, 442-446.	5.0	34
15	Assisted Control for Semi-Autonomous Power Infrastructure Inspection Using Aerial Vehicles. , 2018, , .		2
16	Online Inverse Optimal Control on Infinite Horizons. , 2018, , .		10
17	Detection of Parametric Roll Resonance using Bayesian Discrete-Frequency Model Selection. IFAC-PapersOnLine, 2018, 51, 444-449.	0.9	1
18	Bayesian Inference and Prediction of Wave-induced Ship Motion based on Discrete-frequency Model Approximations. IFAC-PapersOnLine, 2018, 51, 104-109.	0.9	3

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	A vision-based sense-and-avoid system tested on a ScanEagle UAV. , 2017, , .		15
22	Adaptive detection threshold selection for vision-based sense and avoid. , 2017, , .		6
23	Minimax Robust Quickest Change Detection With Exponential Delay Penalties. , 2017, 1, 280-285.		4
24	Change Detection for Undermodelled Processes Using Mismatched Hidden Markov Model Test Filters. , 2017, 1, 238-243.		3
25	Quickest detection of intermittent signals with estimated anomaly times. , 2017, , .		1
26	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
27	Stable image-based visual servoing with unknown point feature correspondence. , 2017, , .		0
28	Inverse noncooperative differential games. , 2017, , .		8
29	Misspecified and Asymptotically Minimax Robust Quickest Change Detection. IEEE Transactions on Signal Processing, 2017, 65, 5730-5742.	5.3	14
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	Coordinated change detection for UAV formations. , 2016, , .		0
32	An optimal linear prediction filter for discrete-time linear additive hybrid systems. , 2016, , .		0
33	Discrete-time inverse optimal control with partial-state information: A soft-optimality approach with constrained state estimation. , 2016, , .		10
34	Sense and avoid technology developments at Queensland University of Technology. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 28-37.	1.3	16
35	Feature article: flight test and evaluation of a prototype sense and avoid system onboard a scaneagle unmanned aircraft. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 6-15.	1.3	9
36	Towards strongly consistent online HMM parameter estimation using one-step Kerridge inaccuracy. Signal Processing, 2015, 115, 79-93.	3.7	2

#	ARTICLE	IF	CITATIONS
37	Short-data recursive HMM parameter estimation for rapid vision-based aircraft heading estimation. , 2014, , .		1
38	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
39	Control of infrastructure inspection aircraft vertical dynamics in the presence of thermal disturbances. , 2013, , .		0
40	Automated aerial inspection guidance with improved turn planning. , 2013, , .		3
41	HMM relative entropy rate concepts for vision-based aircraft manoeuvre detection. , 2013, , .		6
42	Relative entropy rate based model selection for linear hybrid system filters of uncertain nonlinear systems. Signal Processing, 2013, 93, 12-22.	3.7	7
43	Characterization of Skyâ€region Morphologicalâ€temporal Airborne Collision Detection. Journal of Field Robotics, 2013, 30, 171-193.	6.0	58
44	Consistent HMM parameter estimation using Kerridge inaccuracy rates. , 2013, , .		2
45	Practical stability of approximating discrete-time filters with respect to model mismatch. Automatica, 2012, 48, 2965-2970.	5.0	5
46	Demonstration of closed-loop airborne sense-and-avoid using machine vision. IEEE Aerospace and Electronic Systems Magazine, 2012, 27, 4-7.	1.3	15
47	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
48	Detection versus False Alarm Characterisation of a Vision-Based Airborne Dim-Target Collision Detection System. , 2011, , .		8
49	Control of Aircraft for Inspection of Linear Infrastructure. IEEE Transactions on Control Systems Technology, 2011, 19, 1397-1409.	5.2	23
50	Practical stability of approximating discrete-time filters with respect to model mismatch using relative entropy concepts. , 2011, , .		1
51	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
52	Airborne visionâ€based collisionâ€detection system. Journal of Field Robotics, 2011, 28, 137-157.	6.0	98
53	Vision-based detection and tracking of aerial targets for UAV collision avoidance. , 2010, , .		54
54	Relative Entropy Rate Based Multiple Hidden Markov Model Approximation. IEEE Transactions on Signal Processing, 2010, 58, 165-174.	5.3	25

#	ARTICLE	IF	CITATIONS
55	Tensor Field guidance for time-based waypoint arrival of UAVs by 4D trajectory generation. , 2009, , .		14
56	On feasibility of regional frequency-based emergency control plans. Energy Conversion and Management, 2009, 50, 1656-1663.	9.2	4
57	Regional frequency response analysis under normal and emergency conditions. Electric Power Systems Research, 2009, 79, 837-845.	3.6	26
58	Adaptive load shedding and regional protection. International Journal of Electrical Power and Energy Systems, 2009, 31, 611-618.	5.5	40
59	On the use of $df/dt$ in power system emergency control. , 2009, , .		28
60	Improved maritime target tracker using colour fusion. , 2009, , .		3
61	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
62	Hidden Markov Model Filter Banks for Dim Target Detection from Image Sequences. , 2008, , .		16
63	Robust Control of Nonlinear Jump Parameter Systems Governed by Uncertain Chains. IEEE Transactions on Automatic Control, 2008, 53, 1520-1526.	5.7	6
64	Evaluation of Maritime Vision Techniques for Aerial Search of Humans in Maritime Environments. , 2008, , .		18
65	On Power System Frequency Control in Emergency Conditions. Journal of Electrical Engineering and Technology, 2008, 3, 499-508.	2.0	7
66	Partially observed non-linear risk-sensitive optimal stopping control for non-linear discrete-time systems. Systems and Control Letters, 2006, 55, 770-776.	2.3	2
67	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
68	Reply by the Authors to J. C. Wilcox. Journal of Guidance, Control, and Dynamics, 2001, 24, 638-638.	2.8	0
69	Reply by the Authors to J. C. Wilcox. Journal of Guidance, Control, and Dynamics, 2001, 24, 638-638.	2.8	0
70	Online Estimation of Allan Variance Parameters. Journal of Guidance, Control, and Dynamics, 2000, 23, 980-987.	2.8	17
71	On-line estimation of Allan variance parameters. , 1999, , .		8
72	On adaptive HMM state estimation. IEEE Transactions on Signal Processing, 1998, 46, 475-486.	5.3	22

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73	Adaptive estimation of HMM transition probabilities. IEEE Transactions on Signal Processing, 1998, 46, 1374-1385.	5.3	33
74	Robust Control of Jump Parameter Systems Governed by Uncertain Chains. , 0, , .		1
75	Control of underactuated marine crafts with matched disturbances. International Journal of Control, 0, , 1-11.	1.9	0