Timothy L Molloy

List of Publications by Year
in descending order

36 papers	310 citations	1039406 9 h-index	996533 15 g-index
40 all docs	40 docs citations	40 times ranked	139 citing authors

#	Article	IF	Citations
1	Finite-horizon inverse optimal control for discrete-time nonlinear systems. Automatica, 2018, 87, 442-446.	3.0	34
2	Inverse Open-Loop Noncooperative Differential Games and Inverse Optimal Control. IEEE Transactions on Automatic Control, 2020, 65, 897-904.	3.6	27
3	Detection of aircraft below the horizon for vision‐based detect and avoid in unmanned aircraft systems. Journal of Field Robotics, 2017, 34, 1378-1391.	3.2	25
4	Learning to Detect Aircraft for Long-Range Vision-Based Sense-and-Avoid Systems. IEEE Robotics and Automation Letters, 2018, 3, 4383-4390.	3.3	24
5	Online inverse optimal control for control-constrained discrete-time systems on finite and infinite horizons. Automatica, 2020, 120, 109109.	3.0	21
6	Solution Sets for Inverse Non-Cooperative Linear-Quadratic Differential Games. , 2019, 3, 871-876.		20
7	Misspecified and Asymptotically Minimax Robust Quickest Change Detection. IEEE Transactions on Signal Processing, 2017, 65, 5730-5742.	3.2	14
8	Below Horizon Aircraft Detection Using Deep Learning for Vision-Based Sense and Avoid. , 2019, , .		13
9	Asymptotic Minimax Robust Quickest Change Detection for Dependent Stochastic Processes With Parametric Uncertainty. IEEE Transactions on Information Theory, 2016, 62, 6594-6608.	1.5	12
10	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.	0.5	11
11	Discrete-time inverse optimal control with partial-state information: A soft-optimality approach with constrained state estimation. , 2016, , .		10
12	Online Inverse Optimal Control on Infinite Horizons. , 2018, , .		10
13	Quickest Detection of Intermittent Signals With Application to Vision-Based Aircraft Detection. IEEE Transactions on Control Systems Technology, 2019, 27, 2703-2710.	3.2	9
14	Inverse noncooperative differential games. , 2017, , .		8
15	Inverse two-player zero-sum dynamic games. , 2016, , .		7
16	An Inverse Differential Game Approach to Modelling Bird Mid-Air Collision Avoidance Behaviours. IFAC-PapersOnLine, 2018, 51, 754-759.	0.5	7
17	Intelligent Reference Curation for Visual Place Recognition Via Bayesian Selective Fusion. IEEE Robotics and Automation Letters, 2021, 6, 588-595.	3.3	7
18	Inverse Optimal Control and Inverse Noncooperative Dynamic Game Theory. Communications and Control Engineering, 2022, , .	1.0	7

#	Article	IF	Citations
19	HMM relative entropy rate concepts for vision-based aircraft manoeuvre detection. , 2013, , .		6
20	Adaptive detection threshold selection for vision-based sense and avoid. , 2017, , .		6
21	Minimax Robust Quickest Change Detection in Systems and Signals With Unknown Transients. IEEE Transactions on Automatic Control, 2019, 64, 2976-2982.	3.6	6
22	Optimal Bearing-Only-Information Strategy for Unmanned Aircraft Collision Avoidance. Journal of Guidance, Control, and Dynamics, 2020, 43, 1822-1836.	1.6	5
23	Nonlinear $\boldsymbol{\mathcal{H}}_{\boldsymbol\infty}$ Control of UAVs for Collision Avoidance in Gusty Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 69, 207-225.	2.0	4
24	Minimax Robust Quickest Change Detection With Exponential Delay Penalties. , 2017, 1, 280-285.		4
25	Change Detection for Undermodelled Processes Using Mismatched Hidden Markov Model Test Filters. , 2017, 1, 238-243.		3
26	Consistent HMM parameter estimation using Kerridge inaccuracy rates. , 2013, , .		2
27	Towards strongly consistent online HMM parameter estimation using one-step Kerridge inaccuracy. Signal Processing, 2015, 115, 79-93.	2.1	2
28	On the informativeness of measurements in Shiryaev's Bayesian quickest change detection. Automatica, 2020, 111, 108645.	3.0	2
29	Short-data recursive HMM parameter estimation for rapid vision-based aircraft heading estimation. , 2014, , .		1
30	Quickest detection of intermittent signals with estimated anomaly times. , 2017, , .		1
31	Inverse Noncooperative Differential Games. Communications and Control Engineering, 2022, , 189-226.	1.0	1
32	Inverse Noncooperative Dynamic Games. Communications and Control Engineering, 2022, , 143-187.	1.0	1
33	Asymptotic quickest change detection and isolation with polynomial delay penalties. , 2016, , .		0
34	A Novel Technique for Rejecting Non-Aircraft Artefacts in Above Horizon Vision-Based Aircraft Detection. , 2020, , .		0
35	Misspecified and Asymptotically Minimax Robust Quickest Change Diagnosis. IEEE Transactions on Automatic Control, 2021, 66, 857-864.	3.6	0
36	Bayesian Experimental Design With Application to Dynamical Vehicle Models. IEEE Transactions on Robotics, 2021, , 1-8.	7.3	0