# Timothy L Molloy

## List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | Inverse Optimal Control and Inverse Noncooperative Dynamic Game Theory. Communications and Control Engineering, 2022, , . | 1.0 | 7 |
| 2 | Inverse Noncooperative Differential Games. Communications and Control Engineering, 2022, , 189-226. | 1.0 | 1 |
| 3 | Inverse Noncooperative Dynamic Games. Communications and Control Engineering, 2022, , 143-187. | 1.0 | 1 |
| 4 | Misspecified and Asymptotically Minimax Robust Quickest Change Diagnosis. IEEE Transactions on Automatic Control, 2021, 66, 857-864. | 3.6 | 0 |
| 5 | Bayesian Experimental Design With Application to Dynamical Vehicle Models. IEEE Transactions on Robotics, 2021, , 1-8. | 7.3 | 0 |
| 6 | Intelligent Reference Curation for Visual Place Recognition Via Bayesian Selective Fusion. IEEE Robotics and Automation Letters, 2021, 6, 588-595. | 3.3 | 7 |
| 7 | On the informativeness of measurements in Shiryaev’s Bayesian quickest change detection. Automatica, 2020, 111, 108645. | 3.0 | 2 |
| 8 | Inverse Open-Loop Noncooperative Differential Games and Inverse Optimal Control. IEEE Transactions on Automatic Control, 2020, 65, 897-904. | 3.6 | 27 |
| 9 | A Novel Technique for Rejecting Non-Aircraft Artefacts in Above Horizon Vision-Based Aircraft Detection. , 2020, , . | | 0 |
| 10 | Optimal Bearing-Only-Information Strategy for Unmanned Aircraft Collision Avoidance. Journal of Guidance, Control, and Dynamics, 2020, 43, 1822-1836. | 1.6 | 5 |
| 11 | Online inverse optimal control for control-constrained discrete-time systems on finite and infinite horizons. Automatica, 2020, 120, 109109. | 3.0 | 21 |
| 12 | Minimax Robust Quickest Change Detection in Systems and Signals With Unknown Transients. IEEE Transactions on Automatic Control, 2019, 64, 2976-2982. | 3.6 | 6 |
| 13 | Below Horizon Aircraft Detection Using Deep Learning for Vision-Based Sense and Avoid. , 2019, , . | | 13 |
| 14 | Solution Sets for Inverse Non-Cooperative Linear-Quadratic Differential Games. , 2019, 3, 871-876. | | 20 |
| 15 | 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 |
| 16 | Finite-horizon inverse optimal control for discrete-time nonlinear systems. Automatica, 2018, 87, 442-446. | 3.0 | 34 |
| 17 | Online Inverse Optimal Control on Infinite Horizons. , 2018, , . | | 10 |
| 18 | An Inverse Differential Game Approach to Modelling Bird Mid-Air Collision Avoidance Behaviours. IFAC-PapersOnLine, 2018, 51, 754-759. | 0.5 | 7 |

| # | 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. | 3.3 | 24 |
| 20 | Detection of aircraft below the horizon for visionâ€based detect and avoid in unmanned aircraft systems. Journal of Field Robotics, 2017, 34, 1378-1391. | 3.2 | 25 |
| 21 | Adaptive detection threshold selection for vision-based sense and avoid. , 2017, , . | | 6 |
| 22 | Minimax Robust Quickest Change Detection With Exponential Delay Penalties. , 2017, 1, 280-285. | | 4 |
| 23 | Change Detection for Undermodelled Processes Using Mismatched Hidden Markov Model Test Filters. , 2017, 1, 238-243. | | 3 |
| 24 | Quickest detection of intermittent signals with estimated anomaly times. , 2017, , . | | 1 |
| 25 | 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 |
| 26 | Inverse noncooperative differential games. , 2017, , . | | 8 |
| 27 | Misspecified and Asymptotically Minimax Robust Quickest Change Detection. IEEE Transactions on Signal Processing, 2017, 65, 5730-5742. | 3.2 | 14 |
| 28 | 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 |
| 29 | Inverse two-player zero-sum dynamic games. , 2016, , . | | 7 |
| 30 | Asymptotic quickest change detection and isolation with polynomial delay penalties. , 2016, , . | | 0 |
| 31 | Discrete-time inverse optimal control with partial-state information: A soft-optimality approach with constrained state estimation. , 2016, , . | | 10 |
| 32 | Towards strongly consistent online HMM parameter estimation using one-step Kerridge inaccuracy. Signal Processing, 2015, 115, 79-93. | 2.1 | 2 |
| 33 | Short-data recursive HMM parameter estimation for rapid vision-based aircraft heading estimation. , 2014, , . | | 1 |
| 34 | HMM relative entropy rate concepts for vision-based aircraft manoeuvre detection. , 2013, , . | | 6 |
| 35 | Nonlinear $oldsymbol{mathcal{H}}_{oldsymbolinfty}$ 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 |
| 36 | Consistent HMM parameter estimation using Kerridge inaccuracy rates. , 2013, , . | | 2 |