Christoffer R Heckman

List of Publications by Year
in descending order

		1307594	1372567
23 papers	324 citations	7 h-index	10 g-index
23 all docs	23 docs citations	23 times ranked	227 citing authors

#	Article	IF	Citations
1	Radar-Inertial Ego-Velocity Estimation for Visually Degraded Environments. , 2020, , .		43
2	Weak in the NEES?: Auto-Tuning Kalman Filters with Bayesian Optimization. , 2018, , .		42
3	Collective motion patterns of swarms with delay coupling: Theory and experiment. Physical Review E, 2016, 93, 032307.	2.1	28
4	Formalizing and guaranteeing human-robot interaction. Communications of the ACM, 2021, 64, 78-84.	4.5	22
5	A Benchmark for Visual-Inertial Odometry Systems Employing Onboard Illumination. , 2019, , .		20
6	A Real-Time State Dependent Region Estimator for Autonomous Endoscope Navigation. IEEE Transactions on Robotics, 2021, 37, 918-934.	10.3	17
7	Materials that make robots smart. International Journal of Robotics Research, 2019, 38, 1338-1351.	8.5	16
8	ColoRadar: The direct 3D millimeter wave radar dataset. International Journal of Robotics Research, 2022, 41, 351-360.	8.5	15
9	Drift-correcting self-calibration for visual-inertial SLAM. , 2017, , .		13
10	Game-Theoretic Cooperative Lane Changing Using Data-Driven Models. , 2018, , .		13
11	Autonomous Localization, Navigation and Haustral Fold Detection for Robotic Endoscopy. , 2018, , .		12
12	Learning to calibrate: Reinforcement learning for guided calibration of visual–inertial rigs. International Journal of Robotics Research, 2019, 38, 1388-1402.	8.5	12
13	Failure is Not an Option: Policy Learning for Adaptive Recovery in Space Operations. IEEE Robotics and Automation Letters, 2018, 3, 1639-1646.	5.1	11
14	Multi-Agent Autonomy: Advancements and Challenges in Subterranean Exploration. , 2022, 2, 1068-1104.		10
15	Online Probabilistic Change Detection in Feature-Based Maps. , 2018, , .		9
16	Robust low-overlap 3-D point cloud registration for outlier rejection. , 2019, , .		9
17	SUN-Spot: An RGB-D Dataset With Spatial Referring Expressions. , 2019, , .		9
18	Everybody Needs Somebody Sometimes: Validation of Adaptive Recovery in Robotic Space Operations. IEEE Robotics and Automation Letters, 2019, 4, 1216-1223.	5.1	7

#	Article	IF	Citations
19	Path-Following through Control Funnel Functions. , 2018, , .		5
20	Online System Identification and Calibration of Dynamic Models for Autonomous Ground Vehicles. , 2018, , .		4
21	Toward efficient navigation in uncertain gyre-like flows. International Journal of Robotics Research, 2015, 34, 1590-1603.	8.5	3
22	Radar-Inertial State Estimation and Obstacle Detection for Micro-Aerial Vehicles in Dense Fog. Springer Proceedings in Advanced Robotics, 2021, , 3-16.	1.3	2
23	Human-Aware Reinforcement Learning for Fault Recovery Using Contextual Gaussian Processes. Journal of Aerospace Information Systems, 0, , 1-13.	1.4	2