

# Christoffer R Heckman

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

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citations

1307594

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1372567

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g-index

23  
all docs

23  
docs citations

23  
times ranked

227  
citing authors

#	ARTICLE	IF	CITATIONS
1	ColoRadar: The direct 3D millimeter wave radar dataset. International Journal of Robotics Research, 2022, 41, 351-360.	8.5	15
2	Multi-Agent Autonomy: Advancements and Challenges in Subterranean Exploration. , 2022, 2, 1068-1104.		10
3	A Real-Time State Dependent Region Estimator for Autonomous Endoscope Navigation. IEEE Transactions on Robotics, 2021, 37, 918-934.	10.3	17
4	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
5	Formalizing and guaranteeing human-robot interaction. Communications of the ACM, 2021, 64, 78-84.	4.5	22
6	Radar-Inertial Ego-Velocity Estimation for Visually Degraded Environments. , 2020, , .		43
7	Everybody Needs Somebody Sometimes: Validation of Adaptive Recovery in Robotic Space Operations. IEEE Robotics and Automation Letters, 2019, 4, 1216-1223.	5.1	7
8	Robust low-overlap 3-D point cloud registration for outlier rejection. , 2019, , .		9
9	Materials that make robots smart. International Journal of Robotics Research, 2019, 38, 1338-1351.	8.5	16
10	Learning to calibrate: Reinforcement learning for guided calibration of visualâ€“inertial rigs. International Journal of Robotics Research, 2019, 38, 1388-1402.	8.5	12
11	SUN-Spot: An RGB-D Dataset With Spatial Referring Expressions. , 2019, , .		9
12	A Benchmark for Visual-Inertial Odometry Systems Employing Onboard Illumination. , 2019, , .		20
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	Game-Theoretic Cooperative Lane Changing Using Data-Driven Models. , 2018, , .		13
15	Path-Following through Control Funnel Functions. , 2018, , .		5
16	Autonomous Localization, Navigation and Hausrnal Fold Detection for Robotic Endoscopy. , 2018, , .		12
17	Weak in the NEES?: Auto-Tuning Kalman Filters with Bayesian Optimization. , 2018, , .		42
18	Online Probabilistic Change Detection in Feature-Based Maps. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
19	Online System Identification and Calibration of Dynamic Models for Autonomous Ground Vehicles. , 2018, , .		4
20	Drift-correcting self-calibration for visual-inertial SLAM. , 2017, , .		13
21	Collective motion patterns of swarms with delay coupling: Theory and experiment. Physical Review E, 2016, 93, 032307.	2.1	28
22	Toward efficient navigation in uncertain gyre-like flows. International Journal of Robotics Research, 2015, 34, 1590-1603.	8.5	3
23	Human-Aware Reinforcement Learning for Fault Recovery Using Contextual Gaussian Processes. Journal of Aerospace Information Systems, 0, , 1-13.	1.4	2