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List of Publications by Year in descending order

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56
papers

3,763
citations

567281

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h-index

454955

30
g-index

57
all docs

57
docs citations

57
times ranked

2922
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse Depth Parametrization for Monocular SLAM. IEEE Transactions on Robotics, 2008, 24, 932-945.	10.3	577
2	DynaSLAM: Tracking, Mapping, and Inpainting in Dynamic Scenes. IEEE Robotics and Automation Letters, 2018, 3, 4076-4083.	5.1	547
3	RoboEarth. IEEE Robotics and Automation Magazine, 2011, 18, 69-82.	2.0	381
4	Learning object class detectors from weakly annotated video. , 2012, , .		310
5	C2TAM: A Cloud framework for cooperative tracking and mapping. Robotics and Autonomous Systems, 2014, 62, 401-413.	5.1	249
6	1-Point RANSAC for extended Kalman filtering: Application to real-time structure from motion and visual odometry. Journal of Field Robotics, 2010, 27, 609-631.	6.0	226
7	S-PTAM: Stereo Parallel Tracking and Mapping. Robotics and Autonomous Systems, 2017, 93, 27-42.	5.1	135
8	Towards semantic SLAM using a monocular camera. , 2011, , .		114
9	Impact of Landmark Parametrization on Monocular EKF-SLAM with Points and Lines. International Journal of Computer Vision, 2012, 97, 339-368.	15.6	113
10	DPPTAM: Dense piecewise planar tracking and mapping from a monocular sequence. , 2015, , .		99
11	Stereo parallel tracking and mapping for robot localization. , 2015, , .		78
12	1-point RANSAC for EKF-based Structure from Motion. , 2009, , .		75
13	CAM-Convs: Camera-Aware Multi-Scale Convolutions for Single-View Depth. , 2019, , .		63
14	Inverse Depth to Depth Conversion for Monocular SLAM. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	60
15	Corners for Layout: End-to-End Layout Recovery From 360 Images. IEEE Robotics and Automation Letters, 2020, 5, 1255-1262.	5.1	60
16	Visual-inertial direct SLAM. , 2016, , .		58
17	EKF monocular SLAM with relocalization for laparoscopic sequences. , 2011, , .		48
18	Loosely-Coupled Semi-Direct Monocular SLAM. IEEE Robotics and Automation Letters, 2019, 4, 399-406.	5.1	47

#	ARTICLE	IF	CITATIONS
19	Using superpixels in monocular SLAM. , 2014, , .		46
20	The Rosario dataset: Multisensor data for localization and mapping in agricultural environments. International Journal of Robotics Research, 2019, 38, 633-641.	8.5	46
21	Endo-Depth-and-Motion: Reconstruction and Tracking in Endoscopic Videos Using Depth Networks and Photometric Constraints. IEEE Robotics and Automation Letters, 2021, 6, 7225-7232.	5.1	42
22	Camera self-calibration for sequential Bayesian structure from motion. , 2009, , .		37
23	Drift-Free Real-Time Sequential Mosaicing. International Journal of Computer Vision, 2009, 81, 128-137.	15.6	32
24	RGBDTAM: A cost-effective and accurate RGB-D tracking and mapping system. , 2017, , .		28
25	Dimensionless Monocular SLAM. Lecture Notes in Computer Science, 2007, , 412-419.	1.3	23
26	Manhattan and Piecewise-Planar Constraints for Dense Monocular Mapping. , 0, , .		21
27	Interacting multiple model monocular SLAM. , 2008, , .		20
28	Single-View and Multi-View Depth Fusion. IEEE Robotics and Automation Letters, 2017, 2, 1994-2001.	5.1	20
29	Incorporating scene priors to dense monocular mapping. Autonomous Robots, 2015, 39, 279-292.	4.8	15
30	Information-Driven Direct RGB-D Odometry. , 2020, , .		15
31	Towards semantic SLAM using a monocular camera. , 2011, , .		14
32	Creating and using RoboEarth object models. , 2012, , .		12
33	From Points to Planes - Adding Planar Constraints to Monocular SLAM Factor Graphs. , 2020, , .		12
34	Real-time localization and dense mapping in underwater environments from a monocular sequence. , 2015, , .		11
35	Layout aware visual tracking and mapping. , 2015, , .		11
36	Situational Graphs for Robot Navigation in Structured Indoor Environments. IEEE Robotics and Automation Letters, 2022, 7, 9107-9114.	5.1	11

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37	Real-time dense map fusion for stereo SLAM. <i>Robotica</i> , 2018, 36, 1510-1526.	1.9	10
38	An evaluation of robust cost functions for RGB direct mapping. , 2015, , .		9
39	Visual-Inertial SLAM Initialization: A General Linear Formulation and a Gravity-Observing Non-Linear Optimization. , 2018, , .		9
40	Guest Editorial Special Issue on Cloud Robotics and Automation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 396-397.	5.2	8
41	Incremental Learning of Object Models From Natural Human-Robot Interactions. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020, 17, 1883-1900.	5.2	8
42	RGB-D Odometry and SLAM. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019, , 117-144.	1.3	7
43	Dense multi-planar scene estimation from a sparse set of images. , 2011, , .		6
44	Dealing with small data and training blind spots in the Manhattan world. , 2016, , .		5
45	Rotation-Only Bundle Adjustment. , 2021, , .		5
46	Bayesian Deep Neural Networks for Supervised Learning of Single-View Depth. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 2565-2572.	5.1	5
47	Visual-inertial teach and repeat. <i>Robotics and Autonomous Systems</i> , 2020, 131, 103577.	5.1	4
48	Jacobian Computation for Cumulative B-Splines on SE(3) and Application to Continuous-Time Object Tracking. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7132-7139.	5.1	4
49	A multimodal dataset for object model learning from natural human-robot interaction. , 2017, , .		3
50	Performance Evaluation of the Dyna-Q algorithm for Robot Navigation. , 2018, , .		3
51	Big Data on Robotics. <i>Big Data</i> , 2016, 4, 195-196.	3.4	2
52	Guest Editorial Special Issue on Wearable and Ego-Vision Systems for Augmented Experience. <i>IEEE Transactions on Human-Machine Systems</i> , 2017, 47, 1-5.	3.5	2
53	Model for Multi-View Residual Covariances Based on Perspective Deformation. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 1960-1967.	5.1	2
54	Call for Papers: Special Issue on Big Data in Robotics. <i>Big Data</i> , 2016, 4, 1-2.	3.4	1

#	ARTICLE	IF	CITATIONS
55	Finding Regions of Interest from Multimodal Human-Robot Interactions. , 0, , .		1
56	Danish Airst and Grounds: A Dataset for Aerial-to-Street-Level Place Recognition and Localization. IEEE Robotics and Automation Letters, 2022, 7, 9207-9214.	5.1	1