Juan D Tardós

List of Publications by Year
in descending order

24 papers	13,419 citations	623734 14 h-index	1058476 14 g-index
24 all docs	24 docs citations	24 times ranked	6117 citing authors

#	Article	IF	Citations
1	ORB-SLAM: A Versatile and Accurate Monocular SLAM System. IEEE Transactions on Robotics, 2015, 31, 1147-1163.	10.3	4,585
2	ORB-SLAM2: An Open-Source SLAM System for Monocular, Stereo, and RGB-D Cameras. IEEE Transactions on Robotics, 2017, 33, 1255-1262.	10.3	3,975
3	Bags of Binary Words for Fast Place Recognition in Image Sequences. IEEE Transactions on Robotics, 2012, 28, 1188-1197.	10.3	1,273
4	ORB-SLAM3: An Accurate Open-Source Library for Visual, Visual–Inertial, and Multimap SLAM. IEEE Transactions on Robotics, 2021, 37, 1874-1890.	10.3	1,265
5	Visual-Inertial Monocular SLAM With Map Reuse. IEEE Robotics and Automation Letters, 2017, 2, 796-803.	5.1	562
6	Robust Mapping and Localization in Indoor Environments Using Sonar Data. International Journal of Robotics Research, 2002, 21, 311-330.	8.5	416
7	Large-Scale 6-DOF SLAM With Stereo-in-Hand. IEEE Transactions on Robotics, 2008, 24, 946-957.	10.3	201
8	Fast relocalisation and loop closing in keyframe-based SLAM. , 2014, , .		184
9	Divide and Conquer: EKF SLAM in $O(n)$. IEEE Transactions on Robotics, 2008, 24, 1107-1120.	10.3	157
10	Mobile Robot Localization and Map Building. , 1999, , .		114
11	Limits to the consistency of EKF-based SLAM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 716-721.	0.4	108
12	Real-time monocular object SLAM. Robotics and Autonomous Systems, 2016, 75, 435-449.	5.1	99
13	DynaSLAM II: Tightly-Coupled Multi-Object Tracking and SLAM. IEEE Robotics and Automation Letters, 2021, 6, 5191-5198.	5.1	97
14	Large-Scale SLAM Building Conditionally Independent Local Maps: Application to Monocular Vision. IEEE Transactions on Robotics, 2008, 24, 1094-1106.	10.3	92
15	Robust Place Recognition With Stereo Sequences. IEEE Transactions on Robotics, 2012, 28, 871-885.	10.3	74
16	Scalable SLAM building conditionally independent local maps. , 2007, , .		34
17	Inertial-Only Optimization for Visual-Inertial Initialization. , 2020, , .		34
18	ORBSLAM-Atlas: a robust and accurate multi-map system. , 2019, , .		33

#	Article	IF	Citations
19	Robust place recognition with stereo cameras. , 2010, , .		31
20	CIâ€Graph simultaneous localization and mapping for threeâ€dimensional reconstruction of large and complex environments using a multicamera system. Journal of Field Robotics, 2010, 27, 561-586.	6.0	28
21	Fast and Robust Initialization for Visual-Inertial SLAM. , 2019, , .		20
22	CI-Graph: An efficient approach for large scale SLAM. , 2009, , .		14
23	Towards Robust Data Association and Feature Modeling for Concurrent Mapping and Localization. , 2003, , 7-20.		12
24	SD-DefSLAM: Semi-Direct Monocular SLAM for Deformable and Intracorporeal Scenes. , 2021, , .		11