Changhyun Choi

List of Publications by Year
in descending order

22 papers	934 citations	1307366 7 h-index	1719901 7 g-index
23 all docs	23 docs citations	23 times ranked	751 citing authors

#	Article	IF	Citations
1	Voting-based pose estimation for robotic assembly using a 3D sensor. , 2012, , .		123
2	Learning Object Grasping for Soft Robot Hands. IEEE Robotics and Automation Letters, 2018, 3, 2370-2377.	3.3	115
3	Duckietown: An open, inexpensive and flexible platform for autonomy education and research. , 2017, , .		114
4	Robust 3D visual tracking using particle filtering on the special Euclidean group: A combined approach of keypoint and edge features. International Journal of Robotics Research, 2012, 31, 498-519.	5.8	89
5	3D pose estimation of daily objects using an RGB-D camera. , 2012, , .		79
6	3D textureless object detection and tracking: An edge-based approach. , 2012, , .		59
7	A Deep Learning Approach to Grasping the Invisible. IEEE Robotics and Automation Letters, 2020, 5, 2232-2239.	3.3	57
8	RGB-D object tracking: A particle filter approach on GPU. , 2013, , .		48
9	RGB-D object pose estimation in unstructured environments. Robotics and Autonomous Systems, 2016, 75, 595-613.	3.0	44
10	RGB-D edge detection and edge-based registration. , 2013, , .		33
11	Real-time 3D model-based tracking using edge and keypoint features for robotic manipulation. , 2010, , .		30
12	Multi-scale assembly with robot teams. International Journal of Robotics Research, 2015, 34, 1645-1659.	5.8	29
13	Robust 3D visual tracking using particle filtering on the SE(3) group. , 2011, , .		25
14	Learning to Generate 6-DoF Grasp Poses with Reachability Awareness. , 2020, , .		20
15	Attribute-Based Robotic Grasping with One-Grasp Adaptation. , 2021, , .		13
16	Learning Visual Affordances with Target-Oriented Deep Q-Network to Grasp Objects by Harnessing Environmental Fixtures. , 2021, , .		12
17	Real-time 3D object pose estimation and tracking for natural landmark based visual servo. , 2008, , .		9
18	Using Vision for Pre- and Post-grasping Object Localization for Soft Hands. Springer Proceedings in Advanced Robotics, 2017, , 601-612.	0.9	7

#	Article	IF	Citations
19	Learning Object Relations with Graph Neural Networks for Target-Driven Grasping in Dense Clutter. , 2022, , .		6
20	Cognitive vision for efficient scene processing and object categorization in highly cluttered environments. , 2009, , .		5
21	Task-Specific Sensor Planning for Robotic Assembly Tasks. , 2018, , .		4
22	Probabilistic visual verification for robotic assembly manipulation. , 2016, , .		3