Sebastian Thrun

List of Publications by Year
in descending order

57	25,341	201674	345221
papers	citations	27	36
		h-index	g-index

62	62	62	24049
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Differentiation of Active Corneal Infections from Healed Scars Using Deep Learning. Ophthalmology, 2022, 129, 139-146.	5.2	19
2	Artificial intelligence and cancer. Nature Cancer, 2020, 1, 149-152.	13.2	26
3	A guide to deep learning in healthcare. Nature Medicine, 2019, 25, 24-29.	30.7	1,906
4	Dermatologist-level classification of skin cancer with deep neural networks. Nature, 2017, 542, 115-118.	27.8	8,203
5	Robust single-view instance recognition. , 2016, , .		25
6	Automatic calibration of RGBD and thermal cameras. , 2014, , .		8
7	Unsupervised Calibration for Multi-beam Lasers. Springer Tracts in Advanced Robotics, 2014, , 179-193.	0.4	65
8	Learning to Segment and Track in RGBD. IEEE Transactions on Automation Science and Engineering, 2013, 10, 841-852.	5.2	25
9	Precision tracking with sparse 3D and dense color 2D data. , 2013, , .		44
10	Traffic light mapping, localization, and state detection for autonomous vehicles. , 2011, , .		93
11	Probabilistic State Estimation Techniques for Autonomous and Decision Support Systems. Informatik-Spektrum, 2011, 34, 455-461.	1.3	1
12	Practical object recognition in autonomous driving and beyond. , 2011, , .		35
13	Towards 3D object recognition via classification of arbitrary object tracks. , 2011, , .		128
14	Unsupervised learning of invariant features using video. , 2010, , .		26
15	Upsampling range data in dynamic environments. , 2010, , .		118
16	Sub-meter indoor localization in unmodified environments with inexpensive sensors. , 2010, , .		39
17	Robust vehicle localization in urban environments using probabilistic maps. , 2010, , .		396
18	Real time motion capture using a single time-of-flight camera. , 2010, , .		254

#	ARTICLE	IF	CITATIONS
19	Optimal trajectory generation for dynamic street scenarios in a Fren&#x00E9;t Frame. , 2010, , .		373
20	Real-time identification and localization of body parts from depth images. , 2010, , .		181
21	Autonomous driving in semi-structured environments: Mapping and planning. , 2009, , .		48
22	Model based vehicle detection and tracking for autonomous urban driving. Autonomous Robots, 2009, 26, 123-139.	4.8	335
23	Efficient Techniques for Dynamic Vehicle Detection. Springer Tracts in Advanced Robotics, 2009, , 79-91.	0.4	10
24	Autonomous driving in a multi-level parking structure. , 2009, , .		71
25	Junior: The Stanford entry in the Urban Challenge. Journal of Field Robotics, 2008, 25, 569-597.	6.0	876
26	Simultaneous Localization and Mapping. , 2008, , 871-889.		144
27	Apprenticeship learning for motion planning with application to parking lot navigation. , 2008, , .		73
28	Deformable Image Mosaicing for Optical Biopsy. , 2007, , .		9
29	Autonomous Automobile Trajectory Tracking for Off-Road Driving: Controller Design, Experimental Validation and Racing. Proceedings of the American Control Conference, 2007, , .	0.0	238
30	Simultaneous Localization, Mapping and Moving Object Tracking. International Journal of Robotics Research, 2007, 26, 889-916.	8.5	383
31	Simultaneous Localization and Mapping. , 2007, , 13-41.		198
32	Winning the DARPA Grand Challenge: A Robot Race through the Mojave Desert. , 2006, , .		9
33	Stanley: The robot that won the DARPA Grand Challenge. Journal of Field Robotics, 2006, 23, 661-692.	6.0	1,551
34	Teaching Challenge. IEEE Robotics and Automation Magazine, 2006, 13, 12-14.	2.0	3
35	Toward a Framework for Human-Robot Interaction. Human-Computer Interaction, 2004, 19, 9-24.	4.4	212
36	Learning Occupancy Grid Maps with Forward Sensor Models. Autonomous Robots, 2003, 15, 111-127.	4.8	375

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37	EM, MCMC, and Chain Flipping for Structure from Motion with Unknown Correspondence. Machine Learning, 2003, 50, 45-71.	5.4	52
38	Robust Monte Carlo localization for mobile robots. Artificial Intelligence, 2001, 128, 99-141.	5.8	1,359
39	Spoken dialogue management using probabilistic reasoning. , 2000, , .		161
40	Text Classification from Labeled and Unlabeled Documents using EM. Machine Learning, 2000, 39, 103-134.	5.4	2,050
41	A Gesture Based Interface for Human-Robot Interaction. Autonomous Robots, 2000, 9, 151-173.	4.8	259
42	A Probabilistic Approach to Collaborative Multi-Robot Localization. Autonomous Robots, 2000, 8, 325-344.	4.8	507
43	Efficient Multi-Robot Localization Based on Monte Carlo Approximation. , 2000, , 153-160.		5
44	Experiences with an interactive museum tour-guide robot. Artificial Intelligence, 1999, 114, 3-55.	5.8	605
45	Collaborative Multi-robot Localization. Lecture Notes in Computer Science, 1999, , 255-266.	1.3	13
46	Collaborative Multi-Robot Localization. Informatik Aktuell, 1999, , 15-26.	0.6	35
47	Markov Localization for Reliable Robot Navigation and People Detection. Lecture Notes in Computer Science, 1999, , 1-20.	1.3	7
48	Learning metric-topological maps for indoor mobile robot navigation. Artificial Intelligence, 1998, 99, 21-71.	5.8	809
49	A Probabilistic Approach to Concurrent Mapping and Localization for Mobile Robots. Machine Learning, 1998, 31, 29-53.	5.4	467
50	Bayesian Landmark Learning for Mobile Robot Localization. Machine Learning, 1998, 33, 41-76.	5.4	166
51	A Probabilistic Approach to Concurrent Mapping and Localization for Mobile Robots. Autonomous Robots, 1998, 5, 253-271.	4.8	162
52	Active Markov localization for mobile robots. Robotics and Autonomous Systems, 1998, 25, 195-207.	5.1	330
53	Lifelong robot learning. Robotics and Autonomous Systems, 1995, 15, 25-46.	5.1	279
54	An approach to learning mobile robot navigation. Robotics and Autonomous Systems, 1995, 15, 301-319.	5.1	50

#	Article	IF	Citations
55	Model Based Vehicle Tracking for Autonomous Driving in Urban Environments. , 0, , .		56
56	Learning Occupancy Grids of Non-Stationary Objects with Mobile Robots. , 0, , 222-231.		1
57	A Real-time Algorithm for Acquiring Multi-Planar Volumetric Models with Mobile Robots. , 0, , 21-35.		3