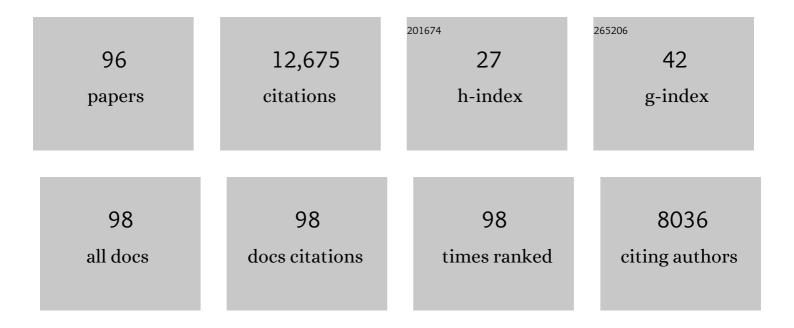
Dieter Fox

List of Publications by Year in descending order

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DIFTER FOX

#	Article	IF	Citations
1	Robust Monte Carlo localization for mobile robots. Artificial Intelligence, 2001, 128, 99-141.	5.8	1,359
2	RGB-D mapping: Using Kinect-style depth cameras for dense 3D modeling of indoor environments. International Journal of Robotics Research, 2012, 31, 647-663.	8.5	967
3	A large-scale hierarchical multi-view RGB-D object dataset. , 2011, , .		894
4	PoseCNN: A Convolutional Neural Network for 6D Object Pose Estimation in Cluttered Scenes. , 0, , .		833
5	Experiences with an interactive museum tour-guide robot. Artificial Intelligence, 1999, 114, 3-55.	5.8	605
6	A Probabilistic Approach to Collaborative Multi-Robot Localization. Autonomous Robots, 2000, 8, 325-344.	4.8	507
7	Learning and inferring transportation routines. Artificial Intelligence, 2007, 171, 311-331.	5.8	480
8	Active Markov localization for mobile robots. Robotics and Autonomous Systems, 1998, 25, 195-207.	5.1	330
9	The limits and potentials of deep learning for robotics. International Journal of Robotics Research, 2018, 37, 405-420.	8.5	320
10	Inferring High-Level Behavior from Low-Level Sensors. Lecture Notes in Computer Science, 2003, , 73-89.	1.3	267
11	6-DOF GraspNet: Variational Grasp Generation for Object Manipulation. , 2019, , .		263
12	Depth kernel descriptors for object recognition. , 2011, , .		238
13	GP-BayesFilters: Bayesian filtering using Gaussian process prediction and observation models. Autonomous Robots, 2009, 27, 75-90.	4.8	229
14	DeepIM: Deep Iterative Matching for 6D Pose Estimation. Lecture Notes in Computer Science, 2018, , 695-711.	1.3	223
15	Unsupervised feature learning for 3D scene labeling. , 2014, , .		215
16	Closing the Sim-to-Real Loop: Adapting Simulation Randomization with Real World Experience. , 2019, , .		196
17	Learning to navigate through crowded environments. , 2010, , .		169
18	IQA: Visual Question Answering in Interactive Environments. , 2018, , .		157

#	Article	IF	CITATIONS
19	Object recognition with hierarchical kernel descriptors. , 2011, , .		146
20	Manipulator and object tracking for in-hand 3D object modeling. International Journal of Robotics Research, 2011, 30, 1311-1327.	8.5	145
21	Sparse distance learning for object recognition combining RGB and depth information. , 2011, , .		137
22	Multipath Sparse Coding Using Hierarchical Matching Pursuit. , 2013, , .		137
23	Estimation, planning, and mapping for autonomous flight using an RGB-D camera in GPS-denied environments. International Journal of Robotics Research, 2012, 31, 1320-1343.	8.5	134
24	Object Recognition in 3D Point Clouds Using Web Data and Domain Adaptation. International Journal of Robotics Research, 2010, 29, 1019-1037.	8.5	123
25	RGB-D flow: Dense 3-D motion estimation using color and depth. , 2013, , .		123
26	Detection-based object labeling in 3D scenes. , 2012, , .		120
27	SE3-nets: Learning rigid body motion using deep neural networks. , 2017, , .		120
28	6-DOF Grasping for Target-driven Object Manipulation in Clutter. , 2020, , .		103
29	Autonomous generation of complete 3D object models using next best view manipulation planning. , 2011, , .		102
30	Opportunity Knocks: A System to Provide Cognitive Assistance with Transportation Services. Lecture Notes in Computer Science, 2004, , 433-450.	1.3	99
31	Self-Supervised Visual Descriptor Learning for Dense Correspondence. IEEE Robotics and Automation Letters, 2017, 2, 420-427.	5.1	97
32	Interactive 3D modeling of indoor environments with a consumer depth camera. , 2011, , .		96
33	ST-HMP: Unsupervised Spatio-Temporal feature learning for tactile data. , 2014, , .		96
34	Gaussian Processes and Reinforcement Learning for Identification and Control of an Autonomous Blimp. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	95
35	Contact-GraspNet: Efficient 6-DoF Grasp Generation in Cluttered Scenes. , 2021, , .		94
36	PoseRBPF: A Rao–Blackwellized Particle Filter for 6-D Object Pose Tracking. IEEE Transactions on Robotics, 2021, 37, 1328-1342.	10.3	79

#	Article	IF	CITATIONS
37	Interactive singulation of objects from a pile. , 2012, , .		72
38	GP-UKF: Unscented kalman filters with Gaussian process prediction and observation models. , 2007, , .		70
39	Building Personal Maps from GPS Data. Annals of the New York Academy of Sciences, 2006, 1093, 249-265.	3.8	69
40	Multi-task policy search for robotics. , 2014, , .		58
41	Patch Volumes: Segmentation-Based Consistent Mapping with RGB-D Cameras. , 2013, , .		56
42	Learning GP-BayesFilters via Gaussian process latent variable models. Autonomous Robots, 2011, 30, 3-23.	4.8	55
43	Visual closed-loop control for pouring liquids. , 2017, , .		52
44	Learning hierarchical sparse features for RGB-(D) object recognition. International Journal of Robotics Research, 2014, 33, 581-599.	8.5	47
45	RGB-D Object Recognition: Features, Algorithms, and a Large Scale Benchmark. Advances in Computer Vision and Pattern Recognition, 2013, , 167-192.	1.3	46
46	ACRONYM: A Large-Scale Grasp Dataset Based on Simulation. , 2021, , .		45
47	Gambit: An autonomous chess-playing robotic system. , 2011, , .		44
48	GP-BayesFilters: Bayesian filtering using Gaussian process prediction and observation models. , 2008, , .		43
49	Depth-based tracking with physical constraints for robot manipulation. , 2015, , .		43
50	DART: dense articulated real-time tracking with consumer depth cameras. Autonomous Robots, 2015, 39, 239-258.	4.8	41
51	RGB-D object discovery via multi-scene analysis. , 2011, , .		38
52	Distributed multirobot exploration, mapping, and task allocation. Annals of Mathematics and Artificial Intelligence, 2008, 52, 229-255.	1.3	37
53	Unseen Object Instance Segmentation for Robotic Environments. IEEE Transactions on Robotics, 2021, 37, 1343-1359.	10.3	37
54	Map-Based Multiple Model Tracking of a Moving Object. Lecture Notes in Computer Science, 2005, , 18-33.	1.3	36

#	Article	IF	CITATIONS
55	Collaborative Multi-Robot Localization. Informatik Aktuell, 1999, , 15-26.	0.6	35
56	Toward online 3-D object segmentation and mapping. , 2014, , .		31
57	Following directions using statistical machine translation. , 2010, , .		30
58	Attribute based object identification. , 2013, , .		30
59	Space-time functional gradient optimization for motion planning. , 2014, , .		29
60	SE3-Pose-Nets: Structured Deep Dynamics Models for Visuomotor Control. , 2018, , .		24
61	Change Their Perception: RGB-D for 3-D Modeling and Recognition. IEEE Robotics and Automation Magazine, 2013, 20, 49-59.	2.0	23
62	Neural Autonomous Navigation with Riemannian Motion Policy. , 2019, , .		21
63	Scaling Local Control to Large-Scale Topological Navigation. , 2020, , .		21
64	IRIS: Implicit Reinforcement without Interaction at Scale for Learning Control from Offline Robot Manipulation Data. , 2020, , .		20
65	iCaps: Iterative Category-Level Object Pose and Shape Estimation. IEEE Robotics and Automation Letters, 2022, 7, 1784-1791.	5.1	20
66	CRF-Filters: Discriminative Particle Filters for Sequential State Estimation. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	19
67	Anatomically correct testbed hand control: Muscle and joint control strategies. , 2009, , .		18
68	Perceiving and reasoning about liquids using fully convolutional networks. International Journal of Robotics Research, 2018, 37, 452-471.	8.5	17
69	Integrating active localization into high-level robot control systems. Robotics and Autonomous Systems, 1998, 23, 205-220.	5.1	16
70	Control strategies for the index finger of a tendon-driven hand. International Journal of Robotics Research, 2013, 32, 115-128.	8.5	15
71	Joint Inference of Kinematic and Force Trajectories with Visuo-Tactile Sensing. , 2019, , .		15
72	A spatio-temporal probabilistic model for multi-sensor object recognition. , 2007, , .		14

#	Article	IF	CITATIONS
73	Learning predictive models of a depth camera & manipulator from raw execution traces. , 2014, , .		14
74	Reasoning About Liquids via Closed-Loop Simulation. , 0, , .		14
75	Collaborative Multi-robot Localization. Lecture Notes in Computer Science, 1999, , 255-266.	1.3	13
76	RMPflow: A Computational Graph for Automatic Motion Policy Generation. Springer Proceedings in Advanced Robotics, 2020, , 441-457.	1.3	13
77	Manipulation Trajectory Optimization with Online Grasp Synthesis and Selection. , 0, , .		13
78	RMP <i>flow</i> : A Geometric Framework for Generation of Multitask Motion Policies. IEEE Transactions on Automation Science and Engineering, 2021, 18, 968-987.	5.2	12
79	Hierarchical Models for Activity Recognition. , 2006, , .		10
80	Geometric Fabrics: Generalizing Classical Mechanics to Capture the Physics of Behavior. IEEE Robotics and Automation Letters, 2022, 7, 3202-3209.	5.1	10
81	Hierarchical Policies for Cluttered-Scene Grasping With Latent Plans. IEEE Robotics and Automation Letters, 2022, 7, 2883-2890.	5.1	9
82	A Bayesian Developmental Approach to Robotic Goal-Based Imitation Learning. PLoS ONE, 2015, 10, e0141965.	2.5	8
83	Dynamic High Resolution Deformable Articulated Tracking. , 2017, , .		7
84	Learning to identify new objects. , 2014, , .		5
85	Autonomous question answering with mobile robots in human-populated environments. , 2016, , .		5
86	EARLY FUSION for Goal Directed Robotic Vision. , 2019, , .		5
87	Efficient Multi-Robot Localization Based on Monte Carlo Approximation. , 2000, , 153-160.		5
88	Designing information gathering robots for human-populated environments. , 2015, , .		4
89	Real-time 3D Glint Detection in Remote Eye Tracking Based on Bayesian Inference. , 2018, , .		4

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#	Article	IF	CITATIONS
91	Synthesizing Robot Manipulation Programs from a Single Observed Human Demonstration. , 2019, , .		3
92	Probabilistic State Estimation Techniques for Autonomous and Decision Support Systems. Informatik-Spektrum, 2011, 34, 455-461.	1.3	1
93	Learning Composable Behavior Embeddings for Long-Horizon Visual Navigation. IEEE Robotics and Automation Letters, 2021, 6, 3128-3135.	5.1	1
94	Special issue on robotics: science and systems. Autonomous Robots, 2014, 37, 333-334.	4.8	0
95	Part Segmentation for Highly Accurate Deformable Tracking in Occlusions via Fully Convolutional Neural Networks. , 2019, , .		0
96	RGB-D Based Tracking of Complex Objects. Lecture Notes in Computer Science, 2018, , 115-127.	1.3	0