

# Oliver Kroemer

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,521  
citations

840776

11  
h-index

839539

18  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning to select and generalize striking movements in robot table tennis. International Journal of Robotics Research, 2013, 32, 263-279.	8.5	264
2	Probabilistic movement primitives for coordination of multiple human-robot collaborative tasks. Autonomous Robots, 2017, 41, 593-612.	4.8	133
3	A Review of Tactile Information: Perception and Action Through Touch. IEEE Transactions on Robotics, 2020, 36, 1619-1634.	10.3	121
4	Learning Dynamic Tactile Sensing With Robust Vision-Based Training. IEEE Transactions on Robotics, 2011, 27, 545-557.	10.3	91
5	Interaction primitives for human-robot cooperation tasks. , 2014, , .		84
6	Soft Magnetic Skin for Continuous Deformation Sensing. Advanced Intelligent Systems, 2019, 1, 1900025.	6.1	76
7	Towards learning hierarchical skills for multi-phase manipulation tasks. , 2015, , .		64
8	Soft Magnetic Tactile Skin for Continuous Force and Location Estimation Using Neural Networks. IEEE Robotics and Automation Letters, 2020, 5, 3892-3898.	5.1	49
9	Active Reward Learning. , 0, , .		47
10	Probabilistic Segmentation and Targeted Exploration of Objects in Cluttered Environments. IEEE Transactions on Robotics, 2014, 30, 1198-1209.	10.3	45
11	Generalization of human grasping for multi-fingered robot hands. , 2012, , .		40
12	Learning robot tactile sensing for object manipulation. , 2014, , .		40
13	Camera-to-Robot Pose Estimation from a Single Image. , 2020, , .		37
14	Learning robot grasping from 3-D images with Markov Random Fields. , 2011, , .		27
15	Learning to predict phases of manipulation tasks as hidden states. , 2014, , .		27
16	Active reward learning with a novel acquisition function. Autonomous Robots, 2015, 39, 389-405.	4.8	27
17	Maximally informative interaction learning for scene exploration. , 2012, , .		23
18	Learning visual representations for perception-action systems. International Journal of Robotics Research, 2011, 30, 294-307.	8.5	22

#	ARTICLE	IF	CITATIONS
19	Learning sequential motor tasks. , 2013, , .		21
20	Multi-Modal Transfer Learning for Grasping Transparent and Specular Objects. IEEE Robotics and Automation Letters, 2020, 5, 3791-3798.	5.1	21
21	Point cloud completion using extrusions. , 2012, , .		18
22	Generalizing pouring actions between objects using warped parameters. , 2014, , .		18
23	In-Hand Object Pose Tracking via Contact Feedback and GPU-Accelerated Robotic Simulation. , 2020, , .		17
24	Learning Manipulation by Sequencing Motor Primitives with a Two-Armed Robot. Advances in Intelligent Systems and Computing, 2016, , 1601-1611.	0.6	17
25	Active learning using mean shift optimization for robot grasping. , 2009, , .		16
26	Predicting Grasp Success with a Soft Sensing Skin and Shape-Memory Actuated Gripper. , 2019, , .		16
27	Contact localization on grasped objects using tactile sensing. , 2016, , .		15
28	Learning Manipulation Graphs from Demonstrations Using Multimodal Sensory Signals. , 2018, , .		14
29	Learning Robust Manipulation Strategies with Multimodal State Transition Models and Recovery Heuristics. , 2019, , .		12
30	Learning to Switch Between Sensorimotor Primitives Using Multimodal Haptic Signals. Lecture Notes in Computer Science, 2016, , 170-182.	1.3	11
31	Predicting object interactions from contact distributions. , 2014, , .		10
32	Learning probabilistic discriminative models of grasp affordances under limited supervision. , 2010, , .		9
33	Leveraging Multimodal Haptic Sensory Data for Robust Cutting. , 2019, , .		9
34	Learning spatial preconditions of manipulation skills using random forests. , 2016, , .		7
35	Search-Based Task Planning with Learned Skill Effect Models for Lifelong Robotic Manipulation. , 2022, , .		7
36	Generalizing Regrasping with Supervised Policy Learning. Springer Proceedings in Advanced Robotics, 2017, , 622-632.	1.3	6

#	ARTICLE	IF	CITATIONS
37	A kernel-based approach to learning contact distributions for robot manipulation tasks. <i>Autonomous Robots</i> , 2018, 42, 581-600.	4.8	6
38	A flexible hybrid framework for modeling complex manipulation tasks. , 2011, , .		5
39	Pilot Surveys for Adaptive Informative Sampling. , 2018, , .		5
40	Learning Active Task-Oriented Exploration Policies for Bridging the Sim-to-Real Gap. , 0, , .		5
41	Feature selection for learning versatile manipulation skills based on observed and desired trajectories. , 2017, , .		4
42	Policy Blending and Recombination for Multimodal Contact-Rich Tasks. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 2721-2728.	5.1	4
43	Active exploration for robot parameter selection in episodic reinforcement learning. , 2011, , .		3
44	Meta-level Priors for Learning Manipulation Skills with Sparse Features. <i>Springer Proceedings in Advanced Robotics</i> , 2017, , 211-222.	1.3	3
45	Localization and Force-Feedback with Soft Magnetic Stickers for Precise Robot Manipulation. , 2020, , .		3
46	Learning Skills to Patch Plans Based on Inaccurate Models. , 2020, , .		3
47	Mission-level Robustness with Rapidly-deployed, Autonomous Aerial Vehicles by Carnegie Mellon Team Tartan at MBZIRC 2020. , 2022, 2, 172-200.		3
48	Probabilistic interactive segmentation for anthropomorphic robots in cluttered environments. , 2013, , .		2
49	A comparison of contact distribution representations for learning to predict object interactions. , 2015, , .		2
50	Homography-Based Deep Visual Servoing Methods for Planar Grasps. , 2019, , .		2
51	Playing with Food: Learning Food Item Representations Through Interactive Exploration. <i>Springer Proceedings in Advanced Robotics</i> , 2021, , 309-322.	1.3	2
52	Learning Reactive and Predictive Differentiable Controllers for Switching Linear Dynamical Models. , 2021, , .		2
53	Towards Robust Planar Translations using Delta-manipulator Arrays. , 2021, , .		2
54	Generalizing Object-Centric Task-Axes Controllers using Keypoints. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
55	A Comparison of Autoregressive Hidden Markov Models for Multimodal Manipulations With Variable Masses. IEEE Robotics and Automation Letters, 2017, 2, 1101-1108.	5.1	1
56	Synergistic Scheduling of Learning and Allocation of Tasks in Human-Robot Teams. , 2022, , .		1
57	Special issue on artificial intelligence and machine learning for robotic manipulation. Advanced Robotics, 2019, 33, 1155-1155.	1.8	0